



**Photograph 1: Feature 4105, looking upstream.**



**Photograph 2: Feature 4105, view of OHWM.**





**Photograph 1: Feature 4106, looking upstream.**



**Photograph 2: Feature 4106, view of OHWM.**





**Photograph 1: Feature 4107, looking downstream.**



**Photograph 2: Feature 4107, view of OHWM.**





**Photograph 1: Feature 4108, looking downstream.**



**Photograph 2: Feature 4108, view of OHWM.**





**Photograph 1: Feature 4109, looking downstream.**



**Photograph 2: Feature 4109, view of OHWM.**





**Photograph 1: Feature 4110, looking upstream.**



**Photograph 2: Feature 4110, view of OHWM.**





**Photograph 1: Feature 1079, looking upstream.**



**Photograph 2: Feature 1079, view of OHWM.**





**Photograph 1: Feature 4111, looking downstream.**



**Photograph 2: Feature 4111, view of OHWM.**





**Photograph 1: Feature 4112, looking downstream.**



**Photograph 2: Feature 4112, view of OHWM.**





**Photograph 1: Feature 4113, looking downstream.**



**Photograph 2: Feature 4113, view of OHWM.**





**Photograph 1: Feature 2112, looking downstream.**



**Photograph 2: Feature 2112, view of OHWM.**





**Photograph 1: Feature 2113, looking downstream.**



**Photograph 2: Feature 2113, view of OHWM.**





**Photograph 1: Feature 2114, looking downstream.**



**Photograph 2: Feature 2114, view of OHWM.**





**Photograph 1: Feature 2115, looking downstream.**



**Photograph 2: Feature 2115, view of OHWM.**





**Photograph 1: Feature 2116, looking downstream.**



**Photograph 2: Feature 2116, view of OHWM.**





**Photograph 1: Feature 2117, looking downstream.**



**Photograph 2: Feature 2117, view of OHWM.**





**Photograph 1: Feature 2118, looking upstream.**



**Photograph 2: Feature 2118, view of OHWM.**





**Photograph 1: Feature 2119, looking downstream.**



**Photograph 2: Feature 2119, view of OHWM.**





**Photograph 1: Feature 2120, looking downstream.**



**Photograph 2: Feature 2120, view of OHWM.**





**Photograph 1: Feature 2121, looking upstream.**



**Photograph 2: Feature 2121, view of OHWM.**





**Photograph 1: Feature 2122, looking downstream.**



**Photograph 2: Feature 2122, view of OHWM.**





**Photograph 1: Feature 2123, looking downstream.**



**Photograph 2: Feature 2123, view of OHWM.**





**Photograph 1: Feature 2124, looking downstream.**



**Photograph 2: Feature 2124, view of OHWM.**





**Photograph 1: Feature 4114, looking upstream.**



**Photograph 2: Feature 4114, view of OHWM.**





**Photograph 1: Feature 4115, looking downstream.**



**Photograph 2: Feature 4115, view of OHWM.**





**Photograph 1: Feature 4116, looking upstream.**



**Photograph 2: Feature 4116, view of OHWM.**





**Photograph 1: Feature 4117, looking upstream.**



**Photograph 2: Feature 4117, view of OHWM.**





**Photograph 1: Feature 3063, looking upstream.**



**Photograph 2: Feature 3063, view of OHWM.**





**Photograph 1: Feature 3064, looking downstream.**



**Photograph 2: Feature 3064, view of OHWM.**





**Photograph 1: Feature 3065, looking upstream.**



**Photograph 2: Feature 3065, view of OHWM.**





**Photograph 1: Feature 2125, looking upstream.**



**Photograph 2: Feature 2125, view of OHWM.**





**Photograph 1: Feature 2126, looking downstream.**



**Photograph 2: Feature 2126, view of OHWM.**





**Photograph 1: Feature 2127, looking downstream.**



**Photograph 2: Feature 2127, view of OHWM.**





**Photograph 1: Feature 2128, looking downstream.**



**Photograph 2: Feature 2128, view of OHWM.**





**Photograph 1: Feature 2129, looking downstream.**



**Photograph 2: Feature 2129, view of OHWM.**





**Photograph 1: Feature 2130, looking downstream.**



**Photograph 2: Feature 2130, view of OHWM.**





**Photograph 1: Feature 2131, looking upstream.**



**Photograph 2: Feature 2131, view of OHWM.**





**Photograph 1: Feature 2132, looking downstream.**



**Photograph 2: Feature 2132, view of OHWM.**





**Photograph 1: Feature 3066, looking upstream.**



**Photograph 2: Feature 3066, view of OHWM.**





**Photograph 1: Feature 4118, looking downstream.**



**Photograph 2: Feature 4118, view of OHWM.**





**Photograph 1: Feature 4120, looking upstream.**



**Photograph 2: Feature 4120, view of OHWM.**





**Photograph 1: Feature 4121, looking upstream.**



**Photograph 2: Feature 4121, view of OHWM.**





**Photograph 1: Feature 4122, looking upstream.**



**Photograph 2: Feature 4122, view of OHWM.**





**Photograph 1: Feature 4123, looking upstream.**



**Photograph 2: Feature 4123, view of OHWM.**





**Photograph 1: Feature 4124, looking upstream.**



**Photograph 2: Feature 4124, view of OHWM.**





**Photograph 1: Feature 1080, looking upstream.**



**Photograph 2: Feature 1080, view of OHWM.**





**Photograph 1: Feature 2133, looking downstream.**



**Photograph 2: Feature 2133, view of OHWM.**





**Photograph 1: Feature 2134, looking downstream.**



**Photograph 2: Feature 2134, view of OHWM.**





**Photograph 1: Feature 2135, looking downstream.**



**Photograph 2: Feature 2135, view of OHWM.**





**Photograph 1: Feature 2136, looking upstream.**



**Photograph 2: Feature 2136, view of OHWM.**





**Photograph 1: Feature 2137, looking downstream.**



**Photograph 2: Feature 2137, view of OHWM.**





**Photograph 1: Feature 2138, looking downstream.**



**Photograph 2: Feature 2138, view of OHWM.**





**Photograph 1: Feature 2139, looking downstream.**



**Photograph 2: Feature 2139, view of OHWM.**





**Photograph 1: Feature 3068, looking downstream.**



**Photograph 2: Feature 3068, view of OHWM.**





**Photograph 1: Feature 3069, looking upstream.**



**Photograph 2: Feature 3069, view of OHWM.**





**Photograph 1: Feature 3070, looking downstream.**



**Photograph 2: Feature 3070, view of OHWM.**





**Photograph 1: Feature 3071, looking downstream.**



**Photograph 2: Feature 3071, view of OHWM.**





**Photograph 1: Feature 2140, looking downstream.**



**Photograph 2: Feature 2140, view of OHWM.**





**Photograph 1: Feature 1085, looking downstream.**



**Photograph 2: Feature 1085, view of OHWM.**





**Photograph 1: Feature 1086, looking downstream.**



**Photograph 2: Feature 1086, view of OHWM.**





**Photograph 1: Feature 1081, looking downstream.**



**Photograph 2: Feature 1081, view of OHWM.**





**Photograph 1: Feature 1082, looking downstream.**



**Photograph 2: Feature 1082, view of OHWM.**





**Photograph 1: View of Feature 1083.**



**Photograph 2: Feature 1083, view of OHWM.**





**Photograph 1: Feature 1084, looking downstream.**



**Photograph 2: Feature 1084, view of OHWM.**





**Photograph 1: Feature 4125, looking downstream.**



**Photograph 2: Feature 4125, view of OHWM.**





**Photograph 1: Feature 4126, looking downstream.**



**Photograph 2: Feature 4126, view of OHWM.**





**Photograph 1: Feature 4127, looking downstream.**



**Photograph 2: Feature 4127, view of OHWM.**





**Photograph 1: Feature 4128, looking upstream.**



**Photograph 2: Feature 4128, view of OHWM.**





**Photograph 1: Feature 4152, looking upstream.**



**Photograph 2: Feature 4152, view of OHWM.**





**Photograph 1: Feature 4153, looking downstream.**



**Photograph 2: Feature 4153, view of OHWM.**





**Photograph 1: Feature 4129, looking upstream.**



**Photograph 2: Feature 4129, view of OHWM.**





**Photograph 1: Feature 4130, looking upstream.**



**Photograph 2: Feature 4130, view of OHWM.**





**Photograph 1: Feature 4131, looking upstream.**



**Photograph 2: Feature 4131, view of OHWM.**





**Photograph 1: Feature 4132, looking downstream.**



**Photograph 2: Feature 4132, view of OHWM.**





**Photograph 1: Feature 4133, looking upstream.**



**Photograph 2: Feature 4133, view of OHWM.**





**Photograph 1: Feature 4134, looking downstream.**



**Photograph 2: Feature 4134, view of OHWM.**





**Photograph 1: Feature 4135, looking downstream.**



**Photograph 2: Feature 4135, view of OHWM.**





**Photograph 1: Feature 4137, looking upstream.**



**Photograph 2: Feature 4137, view of OHWM.**





**Photograph 1: Feature 4138, looking downstream.**



**Photograph 2: Feature 4138, view of OHWM.**





**Photograph 1: Feature 4139, looking upstream.**



**Photograph 2: Feature 4139, view of OHWM.**





**Photograph 1: Feature 4140, looking downstream.**



**Photograph 2: Feature 4140, view of OHWM.**





**Photograph 1: Feature 4141, looking upstream.**



**Photograph 2: Feature 4141, view of OHWM.**





**Photograph 1: Feature 4142, looking downstream.**



**Photograph 2: Feature 4142, view of OHWM.**





**Photograph 1: Feature 4143, looking downstream.**



**Photograph 2: Feature 4143, view of OHWM.**





**Photograph 1: Feature 4144, looking downstream.**



**Photograph 2: Feature 4144, view of OHWM.**





**Photograph 1: Feature 4145, looking upstream.**



**Photograph 2: Feature 4145, view of OHWM.**





**Photograph 1: Feature 1087, looking upstream.**



**Photograph 2: Feature 1087, view of OHWM.**





**Photograph 1: Feature 1088, looking upstream.**



**Photograph 2: Feature 1088, view of OHWM.**





**Photograph 1: Feature 1089, looking downstream.**



**Photograph 2: Feature 1089, view of OHWM.**





**Photograph 1: Feature 2141, looking downstream.**



**Photograph 2: Feature 2141, view of OHWM.**





**Photograph 1: Feature 2142, looking downstream.**



**Photograph 2: Feature 2142, view of OHWM.**





**Photograph 1: Feature 2143, looking downstream.**



**Photograph 2: Feature 2143, view of OHWM.**





**Photograph 1: Feature 2144, looking upstream.**



**Photograph 2: Feature 2144, view of OHWM.**





**Photograph 1: Feature 2145, looking downstream.**



**Photograph 2: Feature 2145, view of OHWM.**





**Photograph 1: Feature 4146, looking downstream.**



**Photograph 2: Feature 4146, view of OHWM.**





**Photograph 1: Feature 3072, looking downstream.**



**Photograph 2: Feature 3072, view of OHWM.**





**Photograph 1: Feature 3073, looking downstream.**



**Photograph 2: Feature 3073, view of OHWM.**





**Photograph 1: Feature 3074, looking upstream.**



**Photograph 2: Feature 3074, view of OHWM.**





**Photograph 1: Feature 3075, looking downstream.**



**Photograph 2: Feature 3075, view of OHWM.**





**Photograph 1: Feature 3076, looking downstream.**



**Photograph 2: Feature 3076, view of OHWM.**





**Photograph 1: Feature 4147, looking downstream.**



**Photograph 2: Feature 4147, view of OHWM.**





**Photograph 1: Feature 4148, looking upstream.**



**Photograph 2: Feature 4148, view of OHWM.**





**Photograph 1: Feature 4149, looking upstream.**



**Photograph 2: Feature 4149, view of OHWM.**





**Photograph 1: Feature 4150, looking downstream.**



**Photograph 2: Feature 4150, view of OHWM.**





**Photograph 1: Feature 4151, looking upstream.**



**Photograph 2: Feature 4151, view of OHWM.**





**Photograph 1: Feature 4154, looking upstream.**



**Photograph 2: Feature 4154, view of OHWM.**





**Photograph 1: Feature 4155, looking downstream.**



**Photograph 2: Feature 4155, view of OHWM.**





**Photograph 1: Feature 4156, looking upstream.**



**Photograph 2: Feature 4156, view of OHWM.**





**Photograph 1: Feature 4157, looking downstream.**



**Photograph 2: Feature 4157, view of OHWM.**





**Photograph 1: Feature 4158, looking downstream.**



**Photograph 2: Feature 4158, view of OHWM.**





**Photograph 1: Feature 4159, looking downstream.**



**Photograph 2: Feature 4159, view of OHWM.**





**Photograph 1: Feature 4160, looking downstream.**



**Photograph 2: Feature 4160, view of OHWM.**





**Photograph 1: Feature 4161, looking downstream.**



**Photograph 2: Feature 4161, view of OHWM.**





**Photograph 1: Feature 4162, looking downstream.**



**Photograph 2: Feature 4162, view of OHWM.**





**Photograph 1: Feature 3080, looking downstream.**



**Photograph 2: Feature 3080, view of OHWM.**





**Photograph 1: Feature 3081, looking downstream.**



**Photograph 2: Feature 3081, view of OHWM.**





**Photograph 1: Feature 3082, looking downstream.**



**Photograph 2: Feature 3082, view of OHWM.**





**Photograph 1: Feature 3083, looking upstream.**



**Photograph 2: Feature 3083, view of OHWM.**





**Photograph 1: Feature 3084, looking downstream.**



**Photograph 2: Feature 3084, view of OHWM.**





**Photograph 1: Feature 3085, looking downstream.**



**Photograph 2: Feature 3085, view of OHWM.**





**Photograph 1: Feature 3086, looking downstream.**



**Photograph 2: Feature 3086, view of OHWM.**





**Photograph 1: Feature 3087, looking upstream.**



**Photograph 2: Feature 3087, view of OHWM.**





**Photograph 1: Feature 3088, looking downstream.**



**Photograph 2: Feature 3088, view of OHWM.**





**Photograph 1: Feature 3079, looking downstream.**



**Photograph 2: Feature 3079, view of OHWM.**





**Photograph 1: Feature 3089, looking downstream.**



**Photograph 2: Feature 3089, view of OHWM.**





**Photograph 1: Feature 3090, looking downstream.**



**Photograph 2: Feature 3090, view of OHWM.**





**Photograph 1: Feature 3091, looking downstream.**



**Photograph 2: Feature 3091, view of OHWM.**





**Photograph 1: Feature 3092, looking upstream.**



**Photograph 2: Feature 3092, view of OHWM.**





**Photograph 1: Feature 2146, looking downstream.**



**Photograph 2: Feature 2146, view of OHWM.**





**Photograph 1: Feature 2147, looking downstream.**



**Photograph 2: Feature 2147, view of OHWM.**





**Photograph 1: Feature 2148, looking downstream.**



**Photograph 2: Feature 2148, view of OHWM.**





**Photograph 1: Feature 2149, looking downstream.**



**Photograph 2: Feature 2149, view of OHWM.**





**Photograph 1: Feature 2150, looking downstream.**



**Photograph 2: Feature 2150, view of OHWM.**





**Photograph 1: Feature 2151, looking downstream.**



**Photograph 2: Feature 2151, view of OHWM.**





**Photograph 1: Feature 2152, looking upstream.**



**Photograph 2: Feature 2152, view of OHWM.**





**Photograph 1: Feature 2153, looking downstream.**



**Photograph 2: Feature 2153, view of OHWM.**





**Photograph 1: Feature 2154, looking upstream.**



**Photograph 2: Feature 2154, view of OHWM.**





**Photograph 1: Feature 2155, looking downstream.**



**Photograph 2: Feature 2155, view of OHWM.**





**Photograph 1: Feature 2156, looking downstream.**



**Photograph 2: Feature 2156, view of OHWM.**





**Photograph 1: Feature 4163, looking upstream.**



**Photograph 2: Feature 4163, view of OHWM.**





**Photograph 1: Feature 4164, looking downstream.**



**Photograph 2: Feature 4164, view of OHWM.**





**Photograph 1: Feature 4165, looking upstream.**



**Photograph 2: Feature 4165, view of OHWM.**





**Photograph 1: Feature 4166, looking downstream.**



**Photograph 2: Feature 4166, view of OHWM.**





**Photograph 1: Feature 4167, looking downstream.**



**Photograph 2: Feature 4167, view of OHWM.**





**Photograph 1: Feature 4168, looking downstream.**



**Photograph 2: Feature 4168, view of OHWM.**





**Photograph 1: Feature 3096, looking upstream.**



**Photograph 2: Feature 3096, view of OHWM.**





**Photograph 1: Feature 3097, looking downstream.**



**Photograph 2: Feature 3097, view of OHWM.**





**Photograph 1: Feature 3098, looking downstream.**



**Photograph 2: Feature 3098, view of OHWM.**





**Photograph 1: Feature 3099, looking upstream.**



**Photograph 2: Feature 3099, view of OHWM.**





**Photograph 1: Feature 3100, looking upstream.**



**Photograph 2: Feature 3100, view of OHWM.**





**Photograph 1: Feature 3101, looking upstream.**



**Photograph 2: Feature 3101, view of OHWM.**





**Photograph 1: Feature 3102, looking downstream.**



**Photograph 2: Feature 3102, view of OHWM.**





**Photograph 1: Feature 3103, looking upstream.**



**Photograph 2: Feature 3103, view of OHWM.**





**Photograph 1: Feature 3104, looking downstream.**



**Photograph 2: Feature 3104, view of OHWM.**





**Photograph 1: Feature 3093, looking downstream.**



**Photograph 2: Feature 3093, view of OHWM.**





**Photograph 1: Feature 3095, looking downstream.**



**Photograph 2: Feature 3095, view of OHWM.**





**Photograph 1: Feature 3105, looking upstream.**



**Photograph 2: Feature 3105, view of OHWM.**





**Photograph 1: Feature 3106, looking downstream.**



**Photograph 2: Feature 3106, view of OHWM.**





**Photograph 1: Feature 3107, looking downstream.**



**Photograph 2: Feature 3107, view of OHWM.**





**Photograph 1: Feature 3108, looking upstream.**



**Photograph 2: Feature 3108, view of OHWM.**





**Photograph 1: Feature 2157, looking downstream.**



**Photograph 2: Feature 2157, view of OHWM.**





**Photograph 1: Feature 2158, looking downstream.**



**Photograph 2: Feature 2158, view of OHWM.**





**Photograph 1: Feature 2159, looking downstream.**



**Photograph 2: Feature 2159, view of OHWM.**





**Photograph 1: Feature 2160, looking downstream.**



**Photograph 2: Feature 2160, view of OHWM.**





**Photograph 1: Feature 2161, looking downstream.**



**Photograph 2: Feature 2161, view of OHWM.**





**Photograph 1: Feature 2162, looking downstream.**



**Photograph 2: Feature 2162, view of OHWM.**





**Photograph 1: Feature 2163, looking downstream.**



**Photograph 2: Feature 2163, view of OHWM.**





**Photograph 1: Feature 2164, looking downstream.**



**Photograph 2: Feature 2164, view of OHWM.**





**Photograph 1: Feature 2165, looking upstream.**



**Photograph 2: Feature 2165, view of OHWM.**





**Photograph 1: Feature 2166, looking downstream.**



**Photograph 2: Feature 2166, view of OHWM.**





**Photograph 1: Feature 2170, looking upstream.**



**Photograph 2: Feature 2170, view of OHWM.**





**Photograph 1: Feature 2167, looking downstream.**



**Photograph 2: Feature 2167, view of OHWM.**





**Photograph 1: Feature 2168, looking upstream.**



**Photograph 2: Feature 2168, view of OHWM.**





**Photograph 1: Feature 2169, looking downstream.**



**Photograph 2: Feature 2169, view of OHWM.**





**Photograph 1: Feature 4169, looking downstream.**



**Photograph 2: Feature 4169, view of OHWM.**





**Photograph 1: Feature 4170, looking downstream.**



**Photograph 2: Feature 4170, view of OHWM.**





**Photograph 1: Feature 4172, looking downstream.**



**Photograph 2: Feature 4172, view of OHWM.**





**Photograph 1: Feature 4174, looking downstream.**



**Photograph 2: Feature 4174, view of OHWM.**





**Photograph 1: Feature 4175, looking downstream.**



**Photograph 2: Feature 4175, view of OHWM.**





**Photograph 1: Feature 4176, looking upstream.**



**Photograph 2: Feature 4176, view of OHWM.**





**Photograph 1: Feature 4177, looking downstream.**



**Photograph 2: Feature 4177, view of OHWM.**





**Photograph 1: Feature 4178, looking downstream.**



**Photograph 2: Feature 4178, view of OHWM.**





**Photograph 1: Feature 4179, looking downstream.**



**Photograph 2: Feature 4179, view of OHWM.**





**Photograph 1: Feature 4180, looking downstream.**



**Photograph 2: Feature 4180, view of OHWM.**





**Photograph 1: Feature 4171, looking downstream.**



**Photograph 2: Feature 4171, view of OHWM.**





**Photograph 1: Feature 4173, looking downstream.**



**Photograph 2: Feature 4173, view of OHWM.**





**Photograph 1: Feature 4181, looking downstream.**



**Photograph 2: Feature 4181, view of OHWM.**





**Photograph 1: Feature 4182, looking downstream.**



**Photograph 2: Feature 4182, view of OHWM.**





**Photograph 1: Feature 4183, looking upstream.**



**Photograph 2: Feature 4183, view of OHWM.**





**Photograph 1: Feature 2173, looking downstream.**



**Photograph 2: Feature 2173, view of OHWM.**





**Photograph 1: Feature 2174, looking downstream.**



**Photograph 2: Feature 2174, view of OHWM.**





**Photograph 1: Feature 2175, looking downstream.**



**Photograph 2: Feature 2175, view of OHWM.**





**Photograph 1: Feature 2176, looking downstream.**



**Photograph 2: Feature 2176, view of OHWM.**





**Photograph 1: Feature 2177, looking upstream.**



**Photograph 2: Feature 2177, view of OHWM.**





**Photograph 1: Feature 2178, looking upstream.**



**Photograph 2: Feature 2178, view of OHWM.**





**Photograph 1: Feature 2172, looking downstream.**



**Photograph 2: Feature 2172, view of OHWM.**





**Photograph 1: Feature 3109, looking downstream.**



**Photograph 2: Feature 3109, view of OHWM.**





**Photograph 1: Feature 4063, looking upstream.**



**Photograph 2: Feature 4063, view of OHWM.**





**Photograph 1: Feature 4064, looking upstream.**



**Photograph 2: Feature 4064, view of OHWM.**





**Photograph 1: Feature 4065, looking upstream.**



**Photograph 2: Feature 4065, view of OHWM.**





**Photograph 1: Feature 4066, looking downstream.**



**Photograph 2: Feature 4066, view of OHWM.**





**Photograph 1: Feature 4067, looking downstream.**



**Photograph 2: Feature 4067, view of OHWM.**





**Photograph 1: Feature 4068, looking upstream.**



**Photograph 2: Feature 4068, view of OHWM.**





**Photograph 1: Feature 4069, looking upstream.**



**Photograph 2: Feature 4069, view of OHWM.**





**Photograph 1: Feature 4070, looking upstream.**



**Photograph 2: Feature 4070, view of OHWM.**





**Photograph 1: Feature 4071, looking downstream.**



**Photograph 2: Feature 4071, view of OHWM.**





**Photograph 1: Feature 4072, looking upstream.**



**Photograph 2: Feature 4072, view of OHWM.**





**Photograph 1: Feature 4073, looking downstream.**



**Photograph 2: Feature 4073, view of OHWM.**





**Photograph 1: Feature 4074, looking downstream.**



**Photograph 2: Feature 4074, view of OHWM.**





**Photograph 1: Feature 4075, looking downstream.**



**Photograph 2: Feature 4075, view of OHWM.**



**ATTACHMENT E: WETLAND DELINEATION PHOTOGRAPH LOG**







## ATTACHMENT E: WETLAND DELINEATION PHOTO LOG



**Photograph 1:**  
Feature ID 2008.  
Soil pit number  
one. Photo  
shows water  
table just below  
surface of soil  
sample.



**Photograph 2:**  
Feature ID 2008.  
Soil pit number  
one. Photo  
shows soil  
profile with  
saturation and  
high organics.





**Photograph 3:**  
Feature ID 2008.  
Photo shows  
standing water  
and biotic crust.



**Photograph 4:**  
Feature ID 2008.  
Photo shows salt  
crusts.





**Photograph 5:**  
Feature ID 2008.  
Photo shows  
standing water  
and wetland  
vegetation.



**Photograph 6:**  
Feature I.D.  
2008. Photo  
shows wetland  
vegetation, biotic  
crust and standing  
water.





**Photograph 7:**  
Feature ID 2008.  
Photo shows  
standing water  
and water marks  
(non-riverine).



**Photograph 8:**  
Feature ID 2008.  
Soil pit number  
2. Photo shows  
absence of  
standing water  
and vegetation  
change.





**Photograph 9:**  
Feature ID 2008.  
Soil pit number two. Photo shows  
unsaturated soil  
without stratified  
layers.



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**ATTACHMENT F: WETLAND DELINEATION DATA FORMS**



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# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: ELM / MAP 15 City/County: \_\_\_\_\_ Sampling Date: 4/19/16  
 Applicant/Owner: \_\_\_\_\_ State: CA Sampling Point: 1  
 Investigator(s): GINA ROBINSON, ADAM HAMBURG Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): WASH Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): 6  
 Subregion (LRR): \_\_\_\_\_ Lat: 34°23'25.484"N Long: 117°07'49.087"W Datum: UGS 84  
 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 NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation NO, Soil NO, or Hydrology NO 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? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: <u>GPS DATA</u> <u>HYDRO - POINT 2008: WETLAND SOIL PIT, PIT #1</u> <u>HYDRO - POLYGON 2008: WETLAND</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>SALIX LAEVIGATA</u>	<u>20</u>	<u>YES</u>	<u>FACW</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>70</u> x 1 = <u>70</u> FACW species <u>105</u> x 2 = <u>210</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>175</u> (A) <u>280</u> (B)  Prevalence Index = B/A = <u>1.6</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>20</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>SALIX LASIOLEPIS</u>	<u>65</u>	<u>YES</u>	<u>FACW</u>	
2. <u>SALIX EXIGUA</u>	<u>10</u>	<u>NO</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>75</u> = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>TYHA DOMINGENSIS</u>	<u>70</u>	<u>YES</u>	<u>OBL</u>	
2. <u>CAREX PRAEGRACILIS</u>	<u>10</u>	<u>NO</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>80</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. <u>NONE</u>	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				
% Bare Ground in Herb Stratum <u>19.9</u>	<u>20</u>	% Cover of Biotic Crust <u>0.1</u>		

Remarks: PHOTOS:  
 1) SOIL PIT #1 4) SALT CRUST 7) WATER MARKS NON RIVERINE  
 2) SOIL PROFILE #1 5) SURFACE WATER 1 8)  
 3) BIOTIC CRUST 6) SURFACE WATER 2



## SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-2	7.5YR2.5/2	100	NONE	/	/	/	SILTY LOAM	
2-18	2.5Y4/2	100	NONE	/	/	/	SANDY LOAM	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- |                                                                    |                                                     |                                                     |
|--------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Histosol (A1)                             | <input type="checkbox"/> Sandy Redox (S5)           | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)     |
| <input type="checkbox"/> Histic Epipedon (A2)                      | <input type="checkbox"/> Stripped Matrix (S6)       | <input type="checkbox"/> 2 cm Muck (A10) (LRR B)    |
| <input type="checkbox"/> Black Histic (A3)                         | <input type="checkbox"/> Loamy Mucky Mineral (F1)   | <input type="checkbox"/> Reduced Vertic (F18)       |
| <input checked="" type="checkbox"/> Hydrogen Sulfide (A4)          | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   | <input type="checkbox"/> Red Parent Material (TF2)  |
| <input checked="" type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3)       | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D)                    | <input type="checkbox"/> Redox Dark Surface (F6)    |                                                     |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)         | <input type="checkbox"/> Depleted Dark Surface (F7) |                                                     |
| <input type="checkbox"/> Thick Dark Surface (A12)                  | <input type="checkbox"/> Redox Depressions (F8)     |                                                     |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                  | <input type="checkbox"/> Vernal Pools (F9)          |                                                     |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4)                  |                                                     |                                                     |

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: NONE

Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

Remarks:

## HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- |                                                                    |                                                                        |                                                                    |
|--------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input checked="" type="checkbox"/> Salt Crust (B11)                   | <input type="checkbox"/> Water Marks (B1) (Riverine)               |
| <input type="checkbox"/> High Water Table (A2)                     | <input checked="" type="checkbox"/> Biotic Crust (B12)                 | <input type="checkbox"/> Sediment Deposits (B2) (Riverine)         |
| <input checked="" type="checkbox"/> Saturation (A3)                | <input type="checkbox"/> Aquatic Invertebrates (B13)                   | <input checked="" type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine) | <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)         | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)      | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine)         | <input type="checkbox"/> Presence of Reduced Iron (C4)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input type="checkbox"/> Surface Soil Cracks (B6)                  | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)    | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input checked="" type="checkbox"/> Thin Muck Surface (C7)             | <input type="checkbox"/> Shallow Aquitard (D3)                     |
| <input checked="" type="checkbox"/> Water-Stained Leaves (B9)      | <input type="checkbox"/> Other (Explain in Remarks)                    | <input type="checkbox"/> FAC-Neutral Test (D5)                     |

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 0Water Table Present? Yes ☒ No ☐ Depth (inches): 0Saturation Present? Yes ☒ No ☐ Depth (inches): 0  
(includes capillary fringe)Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:



# WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: ELM / MAP 15 City/County: \_\_\_\_\_ Sampling Date: 4/20/16  
 Applicant/Owner: \_\_\_\_\_ State: CA Sampling Point: 2  
 Investigator(s): GINA ROBINSON, ADAM HAMBURG Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): TERRACE Local relief (concave, convex, none): Concave Slope (%): 4  
 Subregion (LRR): \_\_\_\_\_ Lat: 34°23'24.570"N Long: 117°07'48.228W Datum: WGS84  
 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 No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation No, Soil No, or Hydrology No 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? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: <u>GPS DATA</u> <u>HYDRO-POINT 2008: UPLAND SOIL PIT, PIT #2</u> <u>HYDRO-POLYGON 2008: WETLAND</u>	

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>None</u>				
2. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>90</u> x 3 = <u>270</u> FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>90</u> (A) <u>270</u> (B)  Prevalence Index = B/A = <u>3</u>
3. _____				
4. _____				
5. _____				
6. _____				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>None</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> ____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: _____)				
1. <u>DISTICHLIS SPICATA</u>	<u>90</u>	<u>YES</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
2. <u>BROMUS TECTORUM</u>	<u>10</u>	<u>YES</u>	<u>UPL</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Woody Vine Stratum (Plot size: _____)				
1. <u>NONE</u>				
2. _____				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u>				
Remarks: <u>PHOTOS:</u> <u>8) SOIL PIT #2</u> <u>9) SOIL PROFIL #2</u>				



## SOIL

Sampling Point: 2

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) ( <b>Riverine</b> )		
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) ( <b>Riverine</b> )		
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) ( <b>Riverine</b> )		
<input type="checkbox"/> Water Marks (B1) ( <b>Nonriverine</b> )	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)		
<input type="checkbox"/> Sediment Deposits (B2) ( <b>Nonriverine</b> )	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Drift Deposits (B3) ( <b>Nonriverine</b> )	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)		
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
(includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				