

WETLAND SUMMARY TABLE: PIN 132132.04									
Location Information							Mitigation Description		Comments
Location #	Feature Name	Latitude	Longitude	Impact Acreage to Waters of the US (ac.)	Temporary Wetland Impact Area (ac.)	Permanent Wetland Impact Area (ac.)	Wetland Debit (ac.) (@ 2:1 ratio)	Wetland Mitigation Bank Name	Location-Specific Miscellaneous Comments
2	WTL-3A	35.390095°	-89.41399°	0.075	0.059	0.016	0.03	Hatchie Wetland Mitigation Bank	-
3	WTL-2A	35.39161°	-89.41108°	0.007	0.006	0.001	0.00	Hatchie Wetland Mitigation Bank	-
7	WTL-5A	35.393478°	-89.4120°	0.065	0.046	0.019	0.04	Hatchie Wetland Mitigation Bank	-
<b>Project Totals:</b>				<b>0.147</b>	<b>0.111</b>	<b>0.036</b>	<b>0.07</b>	-	-

FEATURE IMPACT TABLE: PIN 132132.04		Location #2 / WTL-3A	
<u>Location Information</u>			
<b>Location #</b>	Location #2		
<b>Feature Name:</b>	WTL-3A		
<b>Latitude:</b>	35.39009°		
<b>Longitude:</b>	-89.41399°		
<b>Stationing:</b>	Sta. 67+40 ± Rt. To Sta. 68+40 ± Lt. (Ramp D)		
<b>FEMA Floodplain Designation</b>	Zone X		
<u>Permits Required</u>			
<b>TDEC:</b>	Individual ARAP		
<b>Corps:</b>	Nationwide 14		
<b>TVA:</b>	Not required		
<u>Wetland Impact Description</u>			
<b><u>Narrative description of impact</u></b>	permanent fill		
<b><u>Proposed feature characteristics</u></b>	Acres of temporary wetland impact: 0.059 acres Acres of permanent wetland impact: 0.016 acres Volume of permanent wetland impact: 26.4 Cubic yards		
<b><u>Design Options</u></b>	<p>The following 3 design options have been considered:</p> <ol style="list-style-type: none"> <li>1.) Maintain 6:1 slopes out of preference for driver safety and avoidance of guardrail. Design option 1 was not selected as it is the worst case scenario for environmental impact.</li> <li>2) Steepen roadway embankment slopes to reduce impact. Design option 2 was selected along with design option 3 to reduce cost and environmental impact.</li> <li>3) Offsite mitigation. Design option 3 was selected along with design option 2 to reduce cost and environmental impact.</li> </ol>		
<b><u>Impact Minimization</u></b>	Slopes were steepened to the maximum extent practicable as per geotechnical recommendations		
<b><u>Permanent wetland mitigation</u></b>	TDOT proposes to mitigate the permanent wetland impacts by debiting, at a 2:1 ratio, 0.03 acres from available wetland credits at the Hatchie Wetland Mitigation Bank. A debit sheet is enclosed.		
<b><u>Temporary wetland stabilization</u></b>	<p>TDOT proposes to mitigate the temporary wetland impacts by returning the areas to their original elevations, seeding, and planting trees as shown in the enclosed roadway plans.</p> <p>For the temporary wetland impacts, the contractor shall remove and stockpile approximately one foot of topsoil. After construction, the temporary wetland impact area shall be restored as soon as possible to pre-construction grades, and by using the stockpiled topsoil, ensure that the elevation will not allow drainage of the remaining wetland. Once the area has been restored to pre-construction elevations, trees shall be planted according to the proposed mitigation plan.</p> <p>(For on site or offsite In-Kind replacement /Mitigation see USACE 12 point step, permit sketches, and roadway plans for additional details)</p>		
<u>Water Resources Degradation (select one)</u>			
My activity, as proposed, will cause greater than de minimis degradation to water quality.			

FEATURE IMPACT TABLE: PIN 132132.04		Location #7 / WTL-5A	
<u>Location Information</u>			
<b>Location #</b>	Location #7		
<b>Feature Name:</b>	WTL-5A		
<b>Latitude:</b>	35.393478°		
<b>Longitude:</b>	-89.4120°		
<b>Stationing:</b>	Sta. 41+60 ± Rt (Ramp A) to Sta. 253+90 ± Lt. (SR-222)		
<b>FEMA Floodplain Designation</b>	Zone X		
<u>Permits Required</u>			
<b>TDEC:</b>	Individual ARAP		
<b>Corps:</b>	Nationwide 14		
<b>TVA:</b>	Not required		
<u>Wetland Impact Description</u>			
<b><u>Narrative description of impact</u></b>	permanent fill		
<b><u>Proposed feature characteristics</u></b>	Acres of temporary wetland impact: 0.046 acres Acres of permanent wetland impact: 0.019 acres Volume of permanent wetland impact: 29.7 cubic yards		
<b><u>Design Options</u></b>	<p>The following 3 design options have been considered:</p> <ol style="list-style-type: none"> <li>1.) Maintain 6:1 slopes out of preference for driver safety and avoidance of guardrail. Design option 1 was not selected as it is the worst case scenario for environmental impact.</li> <li>2) Steepen roadway embankment slopes to reduce impact. Design option 2 was partially selected to reduce wetland impacts.</li> <li>3) Offsite mitigation. Design option 3 was selected because it is a conventional practice and the best economical fit.</li> </ol>		
<b><u>Impact Minimization</u></b>	Slopes were steepened to the extent possible per geotechnical recommendations and roadway grades set to the lowest possible elevations while still meeting roadway design requirements.		
<b><u>Permanent wetland mitigation</u></b>	TDOT proposes to mitigate the permanent wetland impacts by debiting, at a 2:1 ratio, 0.04 acres from available wetland credits at the Hatchie Wetland Mitigation Bank. A debit sheet is enclosed.		
<b><u>Temporary wetland stabilization</u></b>	<p>TDOT proposes to mitigate the temporary wetland impacts by returning the areas to their original elevations, seeding, and planting trees as shown in the enclosed roadway plans.</p> <p>For the temporary wetland impacts, the contractor shall remove and stockpile approximately one foot of topsoil. After construction, the temporary wetland impact area shall be restored as soon as possible to pre-construction grades, and by using the stockpiled topsoil, ensure that the elevation will not allow drainage of the remaining wetland. Once the area has been restored to pre-construction elevations, trees shall be planted according to the proposed mitigation plan.</p> <p>(For on site or offsite In-Kind replacement /Mitigation see USACE 12 point step, permit sketches, and roadway plans for additional details)</p>		
<u>Water Resources Degradation (select one)</u>			
My activity, as proposed, will cause greater than de minimis degradation to water quality.			