Hydrologic Determination Certification Metro Nashville Stormwater Division

Map & Parcel:
Address:
Project Name:
Owner/ Developer:
A hydrologic determination was performed on by qualified staff for a conveyance located on the above parcel in accordance with the hydrologic determination guidance developed by TDEC and approved by MWS. Based on the observed geomorphology, hydrology, and biology, the conveyance is a wet weather conveyance (WWC) and not a community water as defined by Section 6.9 of Nashville's Stormwater Management Manual, Volume 1.
HD performed by:
Name & Firm:
Signature:
Signature and stamp of Professional Engineer designing the project.

Attach: Hydrologic Determination Field Sheet Photos of beginning, middle, and end of WWC GPS coordinates of beginning and end of WWC on property

MWS reserves the right to verify any hydrologic determination, especially those performed during drier months.

This document should be submitted with the Grading Permit application for all conveyances that will not be protected.

Hydrologic Determination Field Data Sheet Tennessee Division of Water Pollution Control

Assessor:	Date / Time :							
Waterbody:	HUC:							
Location / Site Name :								
County:	Lat/Long	Lat/Long 2 :						
Previous Rainfall (7-day) :		USGS Quad :						
Seasonal Precip vs. Norm:	very wet	wet a	verage	dry	drought	unknown		
Photos Taken ? / Number :	Others Present :							
FIELD INDICATORS OBSERVED								
			Absent	Weak	Moderate	Strong	N/A	
GEOMORP	HOLOGY		11000111	,, car	1,15001010	Saong	11/11	
1) Channel has well-defined by								
2) Channel is sinuous	oca ana bank							
3) Presence of hydraulic diver	reity (riffle no	ol seguence)						
4) Hydric soils present in stre					+			
5) Presence of floodplain or b		of channel			+			
6) Channel is 2 nd order or great					+			
7) Gravel / Cobble substrate i					+			
8) Historic land uses have alto		unnol						
morphology (e.g. channelizati								
HYDRO		cccss)						
1) Non-storm flow present?	LOGI							
2) Storm-related flow present	9							
3) Obvious groundwater conn		springs etc)						
4) Subsurface / interstitial flo								
5) Channel has associated / ac					+			
6) Presence of last fall's leaf	J							
7) Historic land uses have alte								
french drains / livestock activi		nology (c.g.						
BIOLO					+			
1) Presence of Fish	<i>7</i> .01							
2) Presence of Crustaceans (c	ravfish scuds	isonods)			+			
3) Presence of EPT (mayflies					+			
4) Other Inverts (odonates, penni					+			
5) Presence of Mollusca (Sna		5,,						
6) Indicators of aquatic invert		or nets						
larval skins, midge tubes, etc)	s (cadais cases	or nets,						
7) Periphyton present on subs	trate							
8) Filamentous algae present								
9) Instream root wads / oxidiz		ls						
10) Hydrophytic vegetation p								
11) Rooted, non-aquatic plant							· 	
y contract the second				1				
Overall Hydrologic Determination =								
Justification / Comments :								

Comments (cont.)	
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SITE SKETCH	

Hydrologic Determination Guidance Key Tennessee Division of Water Pollution Control

STEP	• •	GO TO STEP
1.	Does the hydrologic feature exist solely due to a process discharge ?	Yes go to END1 No go to 2
2.	Is the hydrologic feature defined by a linear channel or channels?	Yes go to 6 No go to 3
3.	Does the hydrologic feature exhibit enough of the COE-defined wetland characteristics (e.g. hydric soils, hydrophytic vegetation, hydrology) to likely qualify as a jurisdictional wetland?	Yes go to END2 No go to 4
4.	Is the hydrologic feature a "pond" (open water lentic habitat)?	Yes go to 5 No go to 6
5.	Is there a well-defined watercourse leading into or out of the pond?	Yes go to 6 No go to END3
6.	Does the watercourse presently have flow ?	Yes go to 8 No go to 7
7.	When watercourse has flow, does it flow continuously for more than 30 days during a normal hydrologic year? Unce	Yes go to END4 No go to END1 ertain go to 10
8.	Has there been precipitation runoff in the local watershed in the past 5 days ? Unce	Yes go to 9 No go to END4 ertain go to 9
9.	Are aquatic biota indicative of extended periods of flow present ?	Yes go to END4 No go to 10
10.	Do observed field characteristics / features* indicate that it is more likely than not that the watercourse flows or supports fish & aquatic life for extended periods of time during a normal hydrologic year? **Document your observations & rationale**	Yes go to END4 No go to END1
	* note - see <i>Hydrologic Field Data Sheet</i> for field indicators	

- END1: Watercourse is a <u>Wet Weather Conveyance</u>. Alterations are covered under the *General Aquatic Resource Alteration Permit (ARAP) for Wet Weather Conveyances*. In-channel water quality and quantity control structures are usually permissible.
- END2: Hydrologic feature may be a <u>Wetland</u>. The feature should be delineated by a qualified wetland expert using USCOE methodology. Alteration may require an individual or general ARAP, depending on size and connectivity of wetland.
- END3: Hydrologic feature is an **Isolated Pond**. If completely contained on private property, alterations do not require an ARAP. However, discharges resulting from alterations of ponds, including draining, may require NPDES permit coverage.
- END4: Watercourse is a jurisdictional <u>Stream.</u> Physical alteration requires either an individual or general ARAP, depending on the nature and scale of alteration. Buffer regulations in the *Construction Stormwater General Permit* may apply. In-channel water quality and quantity control structures are generally not permissible.

TDEC / WPC December 12, 2006