
Appendix H1

HAWRAT Assessment – Parish March Burn

Annual Average Concentration			Soluble - Acute Impact		Sediment - Chronic Impact				
	Copper	Zinc	Copper	Zinc	Sediment deposition for this site is judged as:				
Step 2	0.11	0.34	Pass	Pass	Pass	Accumulating?	No	4.00	Low flow Vel m/s
Step 3	-	-				Extensive?	No	-	Deposition Index

Location Details

Road number	A77 Maybole Bypass		HA Area / D BFO number		
Assessment type	Non-cumulative assessment (single outfall)				
OS grid reference of assessment point (m)	Easting	228705	Northing	609381	
OS grid reference of outfall structure (m)	Easting		Northing		
Outfall number	Unnamed Burn		List of outfalls in cumulative assessment		
Receiving watercourse	Abeymill Burn to Water of Gihvan				
EA receiving water Detailed River Network ID			Assessor and affiliation	Sinéad Thom	
Date of assessment	31/08/2013		Version of assessment	1	
Notes					

Step 1 Runoff Quality	AADT	>10,000 and <50,000	Climatic region	Colder Wet	Rainfall site	Pakley (SAAR 1205.3mm)
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Step 2 River Impacts	Annual 95%ile river flow (m ³ /s)	0.47	(Enter zero in Annual 95%ile river flow box to assess Step 1 runoff quality only)			
	Impermeable road area drained (ha)	5.64	Permeable area draining to outfall (ha)	0		
	Base Flow Index (BFI)	0.33	Is the discharge in or within 1 km upstream of a protected site for conservation?	No		
For dissolved zinc only	Water hardness	Low = <50mg CaCO ₃ /l	0			
For sediment impact only	Is there a downstream structure, lake, pond or canal that reduces the velocity within 100m of the point of discharge?					No
	<input checked="" type="radio"/> Tier 1 Estimated river width (m)	1	<input type="radio"/> Tier 2 Bed width (m)	0.5	Manning's n	0.035
					Side slope (m/m)	0.5
					Long slope (m/m)	0.0001

	Brief description	Estimated effectiveness					
		Treatment for solubles (%)		Attenuation for solubles - restricted discharge rate (Vs)		Settlement of sediments (%)	
Existing measures		0	0	Unlimited	0	0	0
Proposed measures		0	0	Unlimited	0	0	0