
Appendix H2

HAWRAT Assessment – Black Glen Burn

Annual Average Concentration			Soluble - Acute Impact		Sediment - Chronic Impact		
	Copper	Zinc	Copper	Zinc	Sediment deposition for this site is judged as:		
Step 2	0.00	0.01	Pass	Pass	Accumulating?	No	0.37
Step 3	-	-			Extensive?	No	-
	ug/l	ug/l					Low flow Vel m/s
							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	231060	Northing	611129
OS grid reference of outfall structure (m)	Easting		Northing	
Outfall number	Black Glen Burn	List of outfalls in cumulative assessment		
Receiving watercourse	Chapelton Burn to River Doon			
EA receiving water Detailed River Network ID		Assessor and affiliation		Sinéad Thom (AEMA)
Date of assessment	31.07.2013	Version of assessment		
Notes				

Step 1 Runoff Quality	AADT	>10,000 and <50,000	Climatic region	Colder Wet	Rainfall site	Parkley (GAAR 1205.3mm)
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Step 2 River Impacts	Annual 95%ile river flow (m ³ /s)	2.807	(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)	0.58	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
	Tier 1 Estimated river width (m)	1	Tier 2 Bed width (m)	0.5	Manning's n	0.027
					Side slope (m/m)	0.5
					Long slope (m/m)	0.0001

Step 3 Mitigation

	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

Predict Impact

Show Detailed Results

Exit Tool