

Stormwater Quality Improvement Device Evaluation Protocol (SQIDEP)

VERIFICATION CERTIFICATE

Applicant Information

Company Name	Holcim Australia
Company Address	18 Little Cribb St Milton QLD 4064
Website	www.humes.com.au
Contact Email	charles.kelly@holcim.com

Verified Technology

Product Title	HumeFilter UPT Family		
SQIDEP Pathway	Local Field Trial Evaluation Pathway		
SQIDEP Pathway Reviewed Documents	Local Field Trial Evaluation Pathway The following documents form the basis of this independent evaluation: SQIDEP Detailed Performance Report 31/01/23 (Issue 1) (superseded) SQIDEP Detailed Performance Report 22/03/23 (Issue 2) (current) Appendix C – iAuditor Sample Collection Reports_Timelapse Videos Appendix D - ALS Lab testing documentation Appendix E – Hydrographs Appendix F - Statutory Declarations Appendix H - Lab Testing Reports The following files and documents were also provided: Dirty Water Test.MP4 Filter_S04pc_Q0100_view1_hiRes.avi Hume Filter_Animation.MP4 Hume Filter_Animation.MP4 Humes UPT.ppt Stormwater Quality Lab Testing - Final Report Manly hydraulic laboratory testing Additional information was requested after a meeting between the Evaluators and applicants, chaired by a senior representative from Stormwater Australia including: Additional laboratory Quality Assurance information in the form of Sample Receipt Notices Sizing spreadsheets supplied on a confidential basis for the purpose of this review Additional information on maintenance procedures Further information was provided on 30th May 2023 related to the permeability of the pleated filter. This included:		
	 Additional information on maintenance procedures Further information was provided on 30th May 2023 related to the permeability of the pleated filter. This included: Technical Data –Non-woven Filter Cover letter from Matthew King of Filquip Pty Ltd regarding filter permeability 		

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Technology Information

Applicant's	Total Suspended Solids (TSS) 89 %				
Verified	Total Phosphorus (TP)	75 %			
Performance	Total Nitrogen (TN)	50 %			
Claims	Gross Pollutants	90 %			
Test Stormwater	The presented runoff pollutant t	test results compl	ied with the SQIDEP	typical	
Runoff	stormwater pollutant concentra	tions for urban er	ivironments. The de	evice has therefore	
	urban anvironments (Urban Boa	de Residential In	dustrial Commercia		
				ai).	
Applicant's	licant's Total Suspended Solids (TSS) 89 % - Accepted				
performance	Total Phosphorus (TP)75 % - Accepted				
claims	Total Nitrogen (TN)	50 % - Accepte	ed		
	Gross Pollutants 90 %	(Accepted by eval	uators. but not		
	quant	titatively measure	d – see conditions)		
		,	,		
Test Catchment	Urban Road				
туре					
Maintenance	The Holcim Humefilter was ma	intained once dur	ing the monitored r	eriod. This	
Performed	maintenance involved a filter backwash and removal of cantured gross pollutants				
during	and sediment. The filter cartrid	lges were not repl	laced.		
monitoring		.800 mere not rep			
Verified method	Modelling a HumeFilter in MUS	SIC is as follows:			
to model in					
MUSIC					
	Junction		Junction		
		HumeFilter - UPT	1800		
	Bypass (TFR) parameters should	d be set as approp	oriate for each size o	of device in the	
	family.				
	Device Designation	TFR (L/s)	Pollutant Removal		
	UPT1200	12	TSS 89%		
	UPT1800	30	TP 75%		
	UPT2400	100	TN 50%		
	UPT3600	160	Gross Pollutants 90%		
	Input Properties should reflect	those shown be	OW.		
				Deduction	
	Pollutant	Influent	Effluent	Reduction	
	Total Suspended Solids (T	SS) 1000	110	89%	
	Total Phosphorous (TP)	5	1.25	75%	
	Total Nitrogen (TN)	50	25	50%	
	Gross Pollutants	1000	100	90%	

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Conditions	The limitations of the acceptance of these claims include:
	The results are reliant on the maintenance of the device being consistent with the manufacturer's guidelines.
	The life expectancy of the media should be regularly monitored and replaced in accordance with the Manufacturer's Technical Guidelines/Maintenance Manual.
	The tested device was configured "offline" with flows exceeding the TFR externally bypassing the device. Alternative installations may result in different outcomes.
	While the device should be capable of capturing Gross Pollutants it has not been optimized for this function

Independent Reviewers

Evaluator	Evaluator	
Andrew Allan	Rod Wiese	
AFFLUX CONSULTING STORMWATER MANAGEMENT SOLUTIONS		

Issue of Verification Certificate

Acceptance by SQIDEP Governance Panel	24-Aug-2023
Acceptance by Stormwater Australia Board of Directors	25-Aug-2023
Verification Issued	31-Aug-2023
Stormwater Australia Verification Certificate Number Reference	SA-2023/07a-VC

Verified under SQIDEP Version 1.3

Field Evaluation Pathway

