



MCERTS - EDM Inspection Report

Newbridge-on-Wye WwTW

03 February 2026

Report No. CFS/ 20217v1



Version No. 26.1

Site Name:	Newbridge-on-Wye WwTW	
Consent/Permit Holder:	Dŵr Cymru Welsh Water	
Site Address:	Off A470 Newbridge-on-Wye Powys LD1 6LH	
Site Contact:	Statutory & Regulatory Maintenance Manager	
Contact Details:	mcerts@dwrwymru.com	
Site Ref or Postcode:	31002	
Grid Ref (Sensor):	SO 01474 58141	
Consent/Permit No:	AW1004401	
Location of EDM Sensor:	Storm Overflow	
Number of EDMs:	1	
Instrument Type:	Type A (non contact) - R	
Instrument/Device(s):	Vega Vegapuls C22 with Vegamet 862	
Level Meter Serial Number:	73848089	
Sensor Serial Number:	73229957	
Date of Inspection:	03/02/2026	
Inspector:	MI 10 018	
Inspection Report No:	CFS/ 20217v1	
Survey Pack:	D	* Kit Inventory and calibration data recorded on central QMS database
Uncertainty:	± 1.8 mm	PASS
Site Compliance:	Following a site inspection, the measurement system was found to meet the requirements of the Environment Agency <i>MCERTS: requirements for installing and using event duration monitors - MCERTS Performance Standard</i> . Published 28th August 2024	

Site Details

Site Description

Newbridge-on-Wye WwTW is a sewage treatment works with biological trickling filters (see process diagram).

Location of Event Monitor(s)

The EDM is located above the Right sided storm weir in a channel

Overflow Point(s) Requiring Event Monitoring

Storm Overflow (See Process Diagram.)

Verification / Calibration

The sensor was mounted on a rigid bracket with a removable datum plate to reference the sensor height relative to the hydraulic datum. The reference height of the datum plate has been set accurately and recorded.

Site Maintenance Arrangements, Evidence and Suitability

A routine maintenance schedule has not been confirmed but is required as part of the consent holders Quality Management System, as audited by CSA.
The level measurement system was found to be in a satisfactory condition at the time of the Inspection.

MCERTS Approved Product

The installed meter has a valid MCERTS Approved product certificate. Certificate number: CSA MC210360/01

System Observed in Operation

The EDM was not observed in a storm condition during the inspection. However, there is no evidence to suggest that the system would not be suitable, during a storm event.

Indicated Discharge Status

The indicated discharge status can be observed on site by:
The level activation - Access to telemetry required.

Telemetry Arrangements

The Event Monitor data is collected on the SCADA system.
The data is transmitted using an analogue 4/20mA signal

Inspector's Judgements, Comments or Changes to the Setup

The spill point is hidden within a storm screen. This requires an operator to partially open a panel to access the weir. The weir is located under the screen brush.

V1 report issued with the following amendments:
On/Off spill points adjusted.
Telemetry commissioned 16/03/2026



VEGAMET 862

#73848089 Newbridge-On-Wye

Connected sensors



Newbridge-On-Wye

VEGAPULS C 22 (#73229957)

Distance A (max. adjustment)
0 mm



Distance B (min. adjustment)
634 mm



Event Duration Monitor Calibration			
MCERTS	Datum Depth	109@Black	
Relay	On at	101mm	Off at 100mm
Spill Height		101mm	
			Date
			03/02/26
www.criticalflow.co.uk 01242820199			

Serial Numbers and Adjustment Values

Level Meter & Calibration Sticker



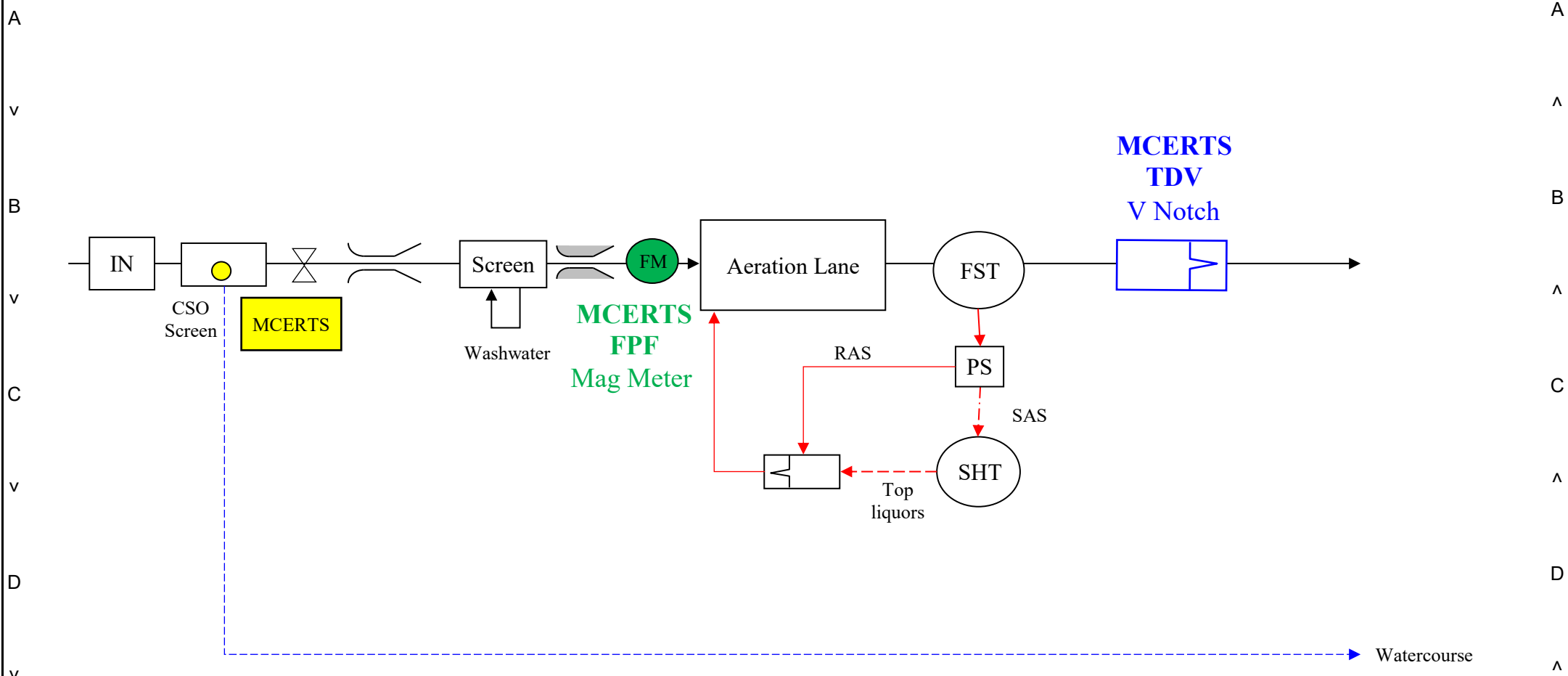
Sensor Location

Overflow Weir / Screen



Spill Point Within Screen

General Location

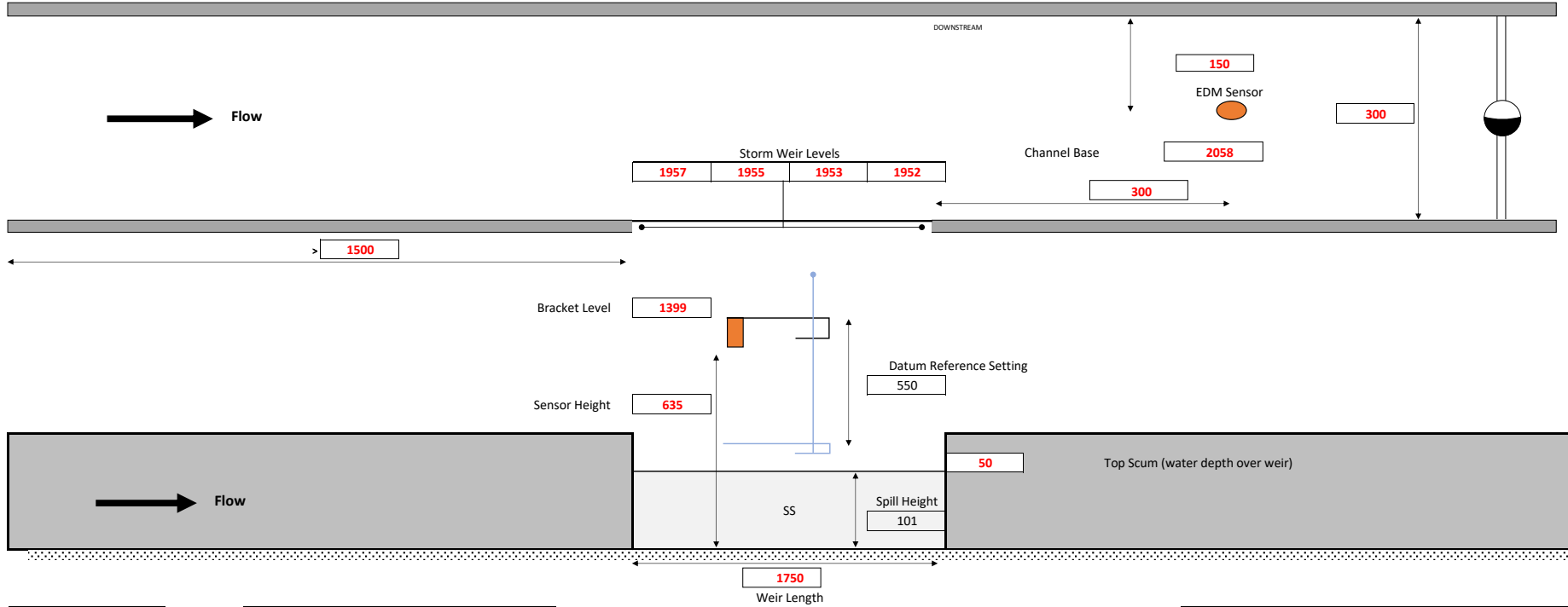


- Treated Flow
- Storm Flow
- Storm Overflow
- RAS
- Top Liquors
- SAS

NB. This process has been established during the site visit and has not been confirmed by the Operator.

Critical Flow Systems Ltd Coln Park, Andoversford Cheltenham Glos	
Newbridge on Wye WwTW	
03/02/2026	Water Company
	DCWW

Site Name	Newbridge-on-Wye WwTW	EDM Level Meter	Vega Vegapuls C22 with Vegamet 862	Location	Storm Overflow
Event Duration Monitor	Date	03 February 2026			
Total Uncertainty	1.8 mm				



Depth Readings	
109	109
109	109
109	109
109	109
109	109
VAR #1	1.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
Error	0.0 mm
Datum Level	109 mm
Instrument Level	109 mm
Calibration Error	0 mm
Survey Error	1 mm
Sensor height above spill	534 mm
Accuracy	0.09 %
Instrument Error	0.46 mm
Estimate of wave height	2 mm
Repeatability#1	0.4 mm
Telemetry Error	1 mm
Total Uncertainty	1.8 mm

Sensor Height	635 mm
Base Level	2058 mm (Staff Reading)
Lowest Weir Level	1957 mm (Staff Reading)
Spill Height	101 mm

Analogue Output	0 mm - 4mA
	634 mm - 20mA
Storm Event Activated	101 mm - 6.55 mA
Event De-Activated	100 mm - 6.52 mA

Bracket Level	1399	Staff Reading
Bobbin	Black	(550 mm)
Datum Ref. Ht.	109	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor location upstream from weir	OK
Sensor distance to weir	OK
Sensor securely mounted	OK
Sensor Height	OK
Sunshade Required	No
Sunshade Installed	No
Sensor in channel centre	n/a

Notes: #1 Repeatability uses IS4359 14.5.1
 Default Values: Telemetry Error for Relay = 0, for 4/20mA = 2mm
 Total Uncertainty uses Error items in 'bold'

All dimensions in mm, unless stated otherwise.