

MCERTS - EDM Inspection Report

Cenarth WwTW

02 October 2025

Report No. CFS/ 19250v1



Site Name:	Cenarth WwTW	
Consent/Permit Holder:	Dŵr Cymru Welsh Water	
Site Address:	Glanyrafon Cenarth Ceredigion SA38 9JR	
Site Contact:	Statutory & Regulatory Maintenance Manager	
Contact Phone Number:	mcerts@dwrwymru.com	
Site Ref or Postcode:	51583	
Grid Ref (Sensor):	SN 26534 41709	
Consent/Permit No:	BP0101201	
Location of EDM Sensor:	Last in line overflow	
Number of EDMs:	1	
Instrument Type:	Type A (non contact) - R	
Instrument/Device(s):	Vega Vegamet 862 with C 22	
Level Meter Serial Number:	73349404	
Sensor Serial Number:	73229750	
Date of Inspection:	02/10/2025	
Inspector:	Tom Green - MI 25 036	
Inspection Report No:	CFS/ 19250v1	
Survey Pack:	H	* Kit Inventory and calibration data recorded on central QMS database
Uncertainty:	± 1.3 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

Cenarth WwTW is a sewage treatment works with RBC treatment (see process diagram).

Location of Event Monitor(s)

The EDM is located above the Dual sided storm weirs

Overflow Point(s) Requiring Event Monitoring

Last in line 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

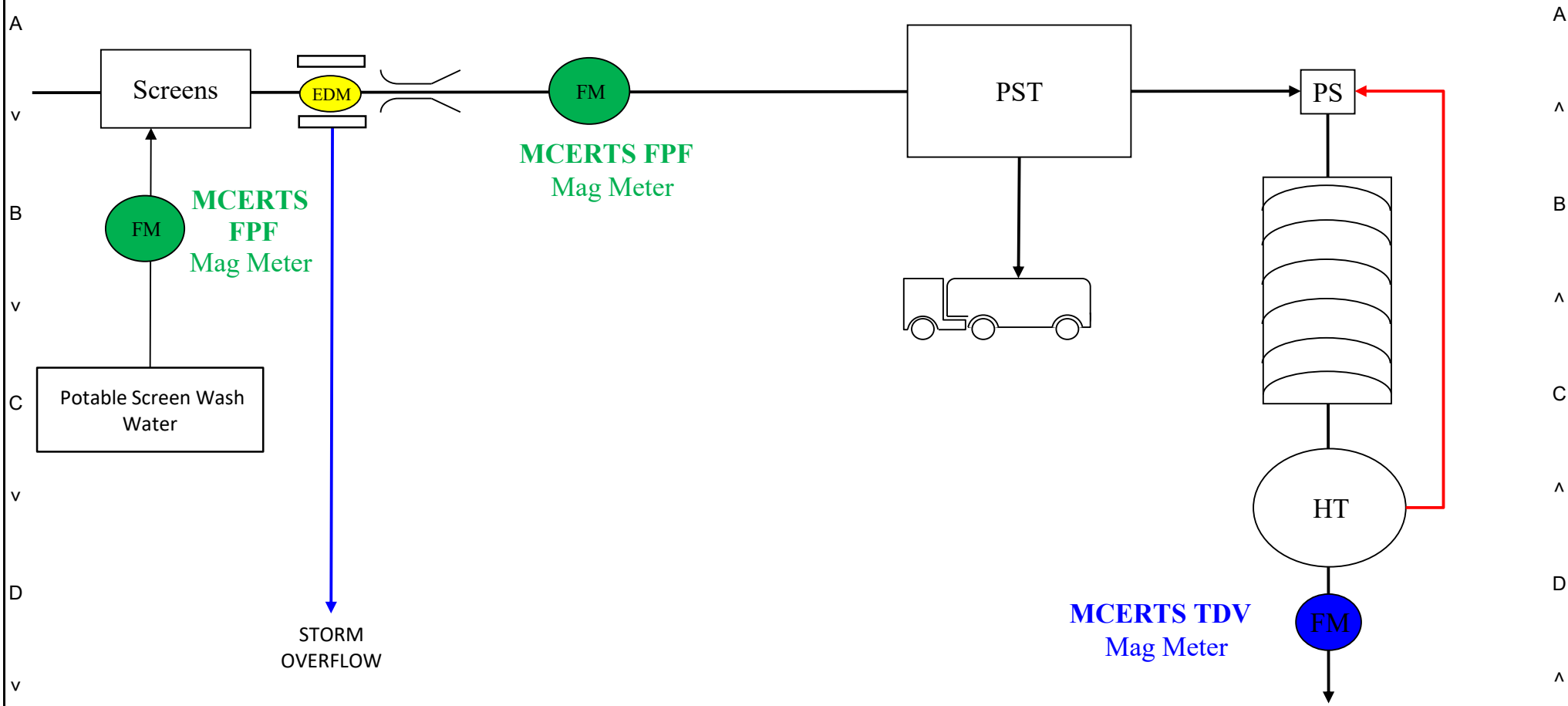
The indicated discharge status can be observed on site by:
A secondary display/indicator.

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 or Comments About the Installation

V1 report issued with the following amendments:
On/Off spill points adjusted.
Telemetry commissioned 18/12/2025



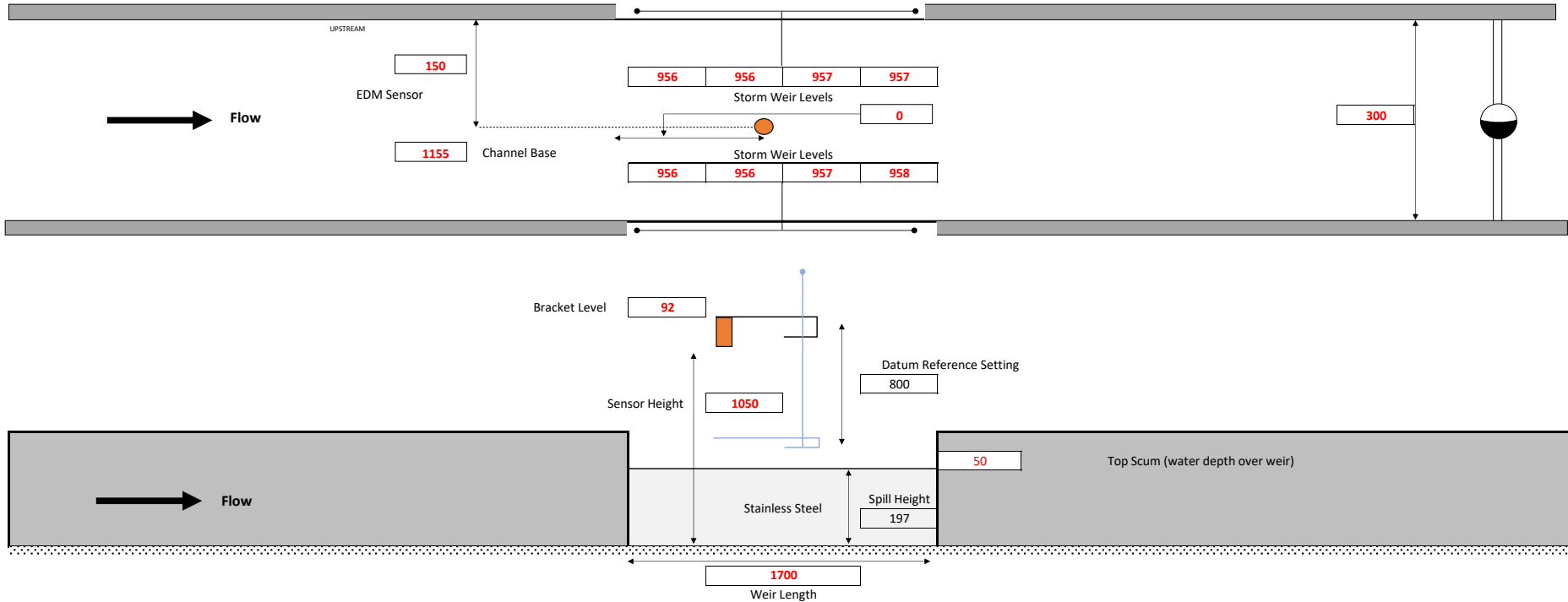
NB. This process has been established during the site visit and has not been confirmed by the Operator.

	Treated Flow
	Storm Flow
	Storm Overflow
	RAS
	Top Liquors
	SAS

Critical Flow Systems Ltd Coln Park, Andoversford Cheltenham Glos	
Cenarth WwTW	
02/10/2025	Water Company
PDR	Dŵr Cymru Welsh Water

Site Name	Cenarth WwTW	EDM Level Meter	Vega Vegamet 862 with C 22	Location	Storm Overflow
Event Duration Monitor	Date	02 October 2025			
Total Uncertainty	1.3 mm				

DUAL SIDED STORM WEIRS



Depth Readings	
263	263
263	263
263	263
263	263
263	263
VAR +1	1.00

Measured Temp.	0 °C
Instrument Temp.	0 °C
Error	0.0 mm
Datum Level	263 mm
Instrument Level	263 mm
Error	0 mm
Sensor height above spill	853 mm
Accuracy	0.09 %
Error	0.78 mm
Estimate of wave height	2 mm
Repeatability #1	0.4 mm
Total Uncertainty	1.3 mm

Sensor Height	1050 mm
Base Level	1155 mm (Staff Reading)
Lowest Weir Level	958 mm (Staff Reading)
Spill Height	197 mm

Analogue Output	0 mm - 4mA
	1035 mm - 20mA
Storm Event Activated	197 mm - 7.05 mA
Event De-Activated	196 mm - 7.03 mA

Bracket Level	92	Staff Reading
Bobbin	Red	(800 mm)
Datum Reference Height	263	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor location upstream from weir	Not applicable
Sensor distance to weir	OK
Sensor securely mounted	OK
Sensor Height	OK
Sunshade Required	No
Sunshade Installed	No
Sensor in channel centre	OK

Notes: #1 Repeatability uses IS4359 14.5.1
Total Uncertainty uses Error items in 'bold'

All dimensions in mm, unless stated otherwise.