



# MCERTS - EDM Inspection Report

## Wilkes Head SPS

26 November 2025

Report No. CFS/ 19891v1



Version No. 25.14

<b>Site Name:</b>	Wilkes Head SPS	
<b>Consent/Permit Holder:</b>	Dŵr Cymru Welsh Water	
<b>Site Address:</b>	Wilkes Head Square Pontwelly Llandysul SA44 4AE	
<b>Site Contact:</b>	Statutory & Regulatory Maintenance Manager	
<b>Contact Phone Number:</b>	mcerts@dwrwymru.com	
<b>Site Ref or Postcode:</b>	51209	
<b>Grid Ref (Sensor):</b>	SN 41599 40306	
<b>Consent/Permit No:</b>	BP0356201	
<b>Location of EDM Sensor:</b>	Storm Overflow	
<b>Number of EDMs:</b>	1	
<b>Instrument Type:</b>	Type A (non contact) - R	
<b>Instrument/Device(s):</b>	Vega Vegapuls C22 with Vegamet 862	
<b>Level Meter Serial Number:</b>	74383508	
<b>Sensor Serial Number:</b>	73229943	
<b>Date of Inspection:</b>	26/11/2025	
<b>Inspector:</b>	Alex Storrer - MI 21 030	
<b>Inspection Report No:</b>	CFS/ 19891v1	
<b>Survey Pack:</b>	A	* Kit Inventory and calibration data recorded on central QMS database
<b>Uncertainty:</b>	± 2.8 mm	<b>PASS</b>
<b>Site Compliance:</b>	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

Wilkes Head SPS is a combined sewer overflow with storm discharge consent.

## 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:  
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, Comments or Changes to the Setup

V1 report issued with the following amendments:  
On/Off spill points adjusted.  
Telemetry commissioned 07/01/2026



**EDM Display**

**EDM Display Serial Number**



**EDM Location**

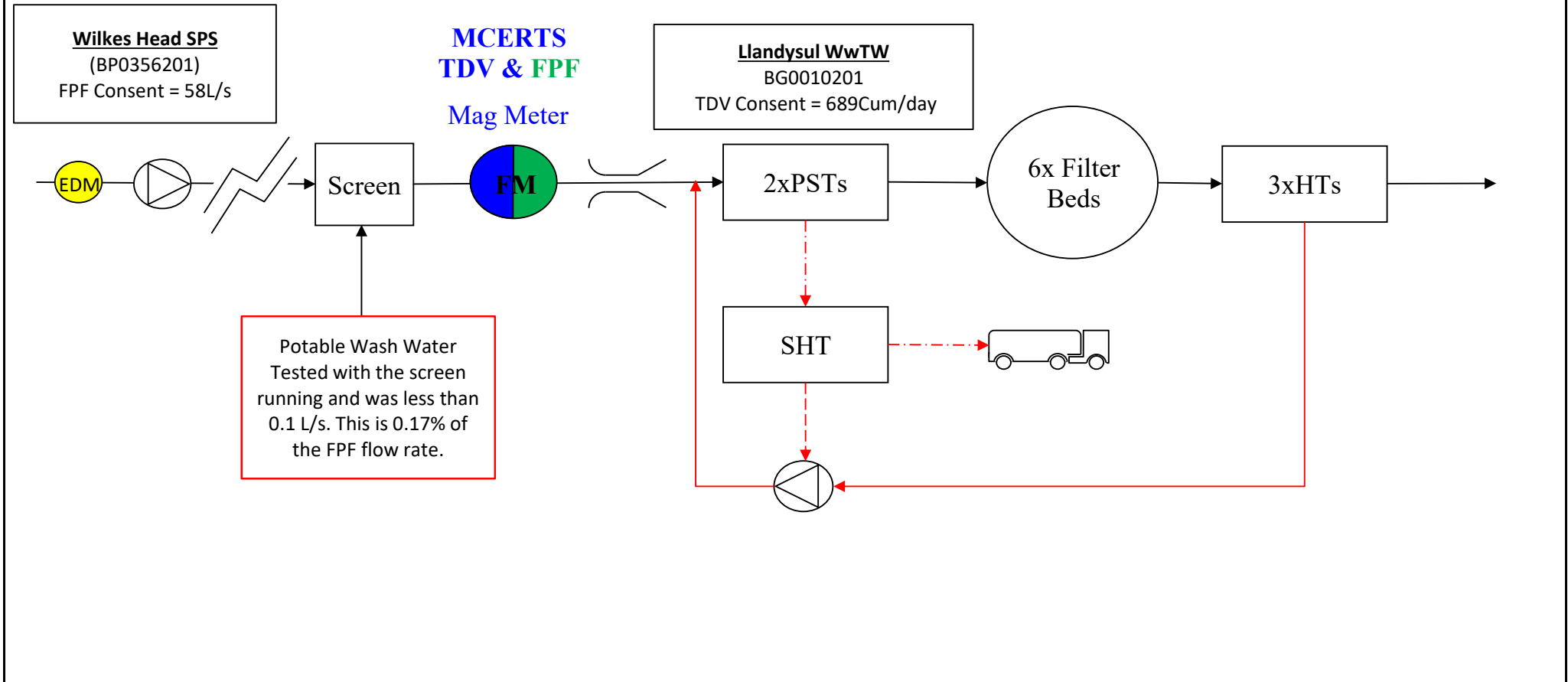
**Storm Overflow Weir**



**EDM Sensor Serial Number**

IF IN DOUBT - ASK

NOT TO SCALE



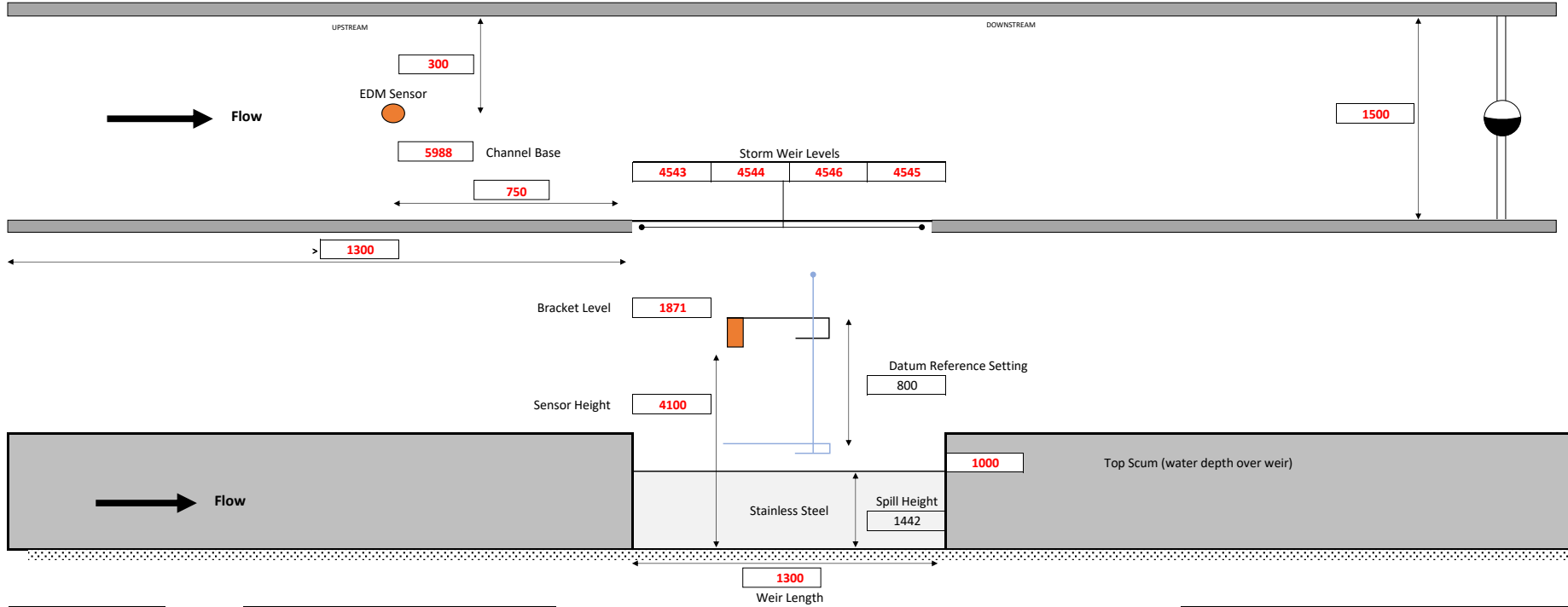
Potable Wash Water Tested with the screen running and was less than 0.1 L/s. This is 0.17% of the FPF flow rate.

- Treated Flow
- Storm Flow
- Storm Overflow
- Humus Returns
- Top Liquors
- De-Sludge

**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	
<b>Llandysul WwTW</b>	
26/11/2025 PDR	Water Company Dŵr Cymru Welsh Water

Site Name	Wilkes Head SPS	EDM Level Meter	Vega Vegapuls C22 with Vegamet 862	Location	Storm Overflow
Event Duration Monitor	Date	26 November 2025			
Total Uncertainty	2.8 mm				



Depth Readings	
3317	3317
3317	3317
3317	3317
3317	3317
3317	3317
VAR +1	1.00

Measured Temp.	N/A °C
Instrument Temp.	N/A °C
<b>Error</b>	<b>0.0 mm</b>
Datum Level	3317 mm
Instrument Level	3317 mm
<b>Calibration Error</b>	<b>0 mm</b>
<b>Survey Error</b>	<b>1 mm</b>
Sensor height above spill	2658 mm
Accuracy	0.09 %
<b>Instrument Error</b>	<b>2.31 mm</b>
<b>Estimate of wave height</b>	<b>2 mm</b>
<b>Repeatability#1</b>	<b>0.4 mm</b>
<b>Telemetry Error</b>	<b>0.62 mm</b>
<b>Total Uncertainty</b>	<b>2.8 mm</b>

Sensor Height	4100 mm
Base Level	5988 mm (Staff Reading)
Lowest Weir Level	4546 mm (Staff Reading)
Spill Height	1442 mm

Analogue Output	0 mm - 4mA
	4095 mm - 20mA
Storm Event Activated	1442 mm - 9.63 mA
Event De-Activated	1441 mm - 9.63 mA

Bracket Level	1871	Staff Reading
Bobbin	Red	(800 mm)
Datum Ref. Ht.	3317	mm

Compliance Check	
Uncertainty < ±5mm	OK
Logging Intervals <2min	OK
Sensor location upstream from weir	OK
Sensor distance to weir	Too Close
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.