

Yorkshire Water Services Trade Effluent Meter & Sampling Equipment Policy June 2018

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Blueprint for Yorkshire



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Introduction

This policy outlines Yorkshire Water (YW) wholesale's approach to trade effluent flow meters and sampling equipment.

This process is compliant with the Wholesale-Retail Code Part 3: Operational Terms, Part G Trade Effluent and Part B Metering (Process B12, B13 & B14).

Aim

The aim of this policy is to:

- ensure a consistent approach is followed within YW wholesale operational area
- provide clear guidance to retailers and non-household customers on the responsibilities for flow meters and sampling equipment.

1. Trade Effluent Flow Measurement

1.1 Where it is a condition of Consent that trade effluent flow measurement is required, the position and specification of any equipment to be installed requires the prior approval of YW wholesale.

1.2 The trade effluent flow meter is the property of the non-household customer.

1.3 The trade effluent flow measuring equipment should meet the following requirements:

- a. The flow measuring equipment must be fit for purpose i.e. operate accurately and continuously at all times and under all conditions created by the trade effluent e.g. steam, dissolved air (DAF), foam, oil, grease, solids etc.
- b. For any form of open channel and closed pipe method of measuring flows, the equipment and its installation must conform to the relevant BS / ISO standards and the Yorkshire Water specification below.
- c. All other methods of measurement used, must be capable of operating within a 5% accuracy range over any 24 hour period during optimal conditions.
- d. The flow recorder shall have a non-resettable totaliser which totals effluent flow in cubic metres. The totaliser must be capable of recording a minimum of 12 months effluent volume.
- e. The flow recorder shall have a continuous display showing the rate of discharge in litres per second (to two decimal places) and Cubic metres discharged per day (M3)
- f. The flow recorder shall record the effluent volume discharged in each consecutive pre-set 24 hour measurement period together with the maximum rate of discharge that occurred during that 24 hour period.
- g. The flow recorder must be capable of quickly providing (displaying) both the volume discharged and maximum rate of flow that occurred during the last operational 24-hour sampling / flow measurement period.
- h. The flow recorded must be capable of storing a minimum of 180 days' worth of flow data
- i. The recording of flow data shall be set at 15 minute intervals.
- j. The flow recorder must be capable of triggering an effluent sampling machine, on a flow proportional basis.
- k. The flow recorder must be programmed so that the collection of effluent samples and the measurement / recording of the effluent flow are synchronised to the same 24 hour period.
- l. The recorder must be programmed so that when one 24 hour cycle of flow measurement and sampling has been completed, the equipment will automatically initiate a further 24 hour cycle of flow measurement / recording and sub sample collection.

- m. The flow information recorded by the flow recorder must be capable of being down-loaded to a computer and the data capable of being reproduced in both tabular and graph formats.
- n. In the event of a power failure, the instrument must have an alternative power supply to permit continued recording and retaining of data until the normal power supply is restored (a battery back-up).
- o. In the event of a signal failure, the data logger shall continue to record and totalise at the value of the last signal provided.

2. Automatic Sampling Equipment

2.1 Where it is a condition of Consent that trade effluent sampling equipment is required, the position and specification of any equipment to be installed requires the prior approval of YW wholesale.

2.2 The sampler will consist of a multiple composite bottle system (with a minimum of 2 bottles). The volume of effluent held by each composite bottle is recommended to be a minimum of 7.5 litres and a maximum of 10 litres.

2.3 The equipment must be capable of collecting effluent samples on a flow proportional basis.

2.4 The sampler must commence a new 24 hour sampling cycle automatically on the completion of the previous 24 hour sampling cycle. At the same time the sampler must automatically change over to an empty bottle. The start of a 24 hour sampling period and the change to the empty bottle must also mirror the start of the flow recorded measuring the effluent flow over 24 hours.

2.5 The sampler will be of a design capable of sampling the trade effluent in question i.e. some effluents are high in suspended solids, emulsified oils etc.

3. Trade Effluent Consent

3.1 The Consent document for the premises/company discharging the effluent contains details of the trade effluent flow meter requirements and the relevant wording is shown in Section 2 & Section 3 below:

(Section 2 Inspection and Measurement):

(2) There shall be provided, operated and maintained in good accurate working order and in a manner consistent with good operating practice, at all times, at your expense;

- (a) *a meter in such a position and of such specification as shall be approved by YWS such as will measure and provide a continuous record of the quantity and rate of discharge of any trade effluent being discharged from the premises into the said sewer and following the written request of YWS*

to have the accuracy of the meter independently tested by an agreed body,

(b) equipment in such position and of such specification as shall be approved by YWS as will:

(i) provide for a continuous record of the pH of the trade effluent discharged from the premises into the said sewer,

(ii) provide for a flow proportional sample as will enable the nature and composition of constituents as set out in these conditions of any trade effluent being discharged from the premises into the said sewer to be ascertained and to provide as may be from time to time required by YWS such samples from such equipment as will enable the nature and composition of constituents as set out in these conditions of any trade effluent being discharged from the premises into the said sewer to be ascertained

(3) You shall allow YWS a right of access without notice for the purpose of inspecting, testing and reading such meter and equipment and any other equipment required under Condition 5(3) and for obtaining any sample of the effluent.

(Section 3 Information to be Given):

(1) You shall supply to YWS all information reasonably requested for the control of the effluent and for the assessing of the charges in accordance with Condition 8.

(2) You shall keep a continuous record of the volume and rate of discharge and the pH of any effluent discharged from the premises into the said sewer and a record of the nature and quantity of any chemicals used to ensure compliance with the terms of this consent and copies of such records shall be submitted to YWS within fourteen days of a written demand from YWS. The originals of all such records shall be retained by you for a period of six years.

(3) You shall provide written documentation within 12 months from the date of this consent and every 12 months thereafter that the flow measurement, pH measurement and other equipment have been independently tested and where appropriate calibrated to ensure that they are in good working order and operating to all relevant specifications. A copy of this should be emailed to bsg.data.configuration@yorkshirewater.co.uk

4. Damaged/Stopped/Under-recording Trade Effluent Flow Meters

4.1 Where a retailer or non-household customer becomes aware of a damaged effluent flow meter the retailer should notify YW wholesale using form G/01, confirming the date the meter became damaged.

4.2 Where a retailer or non-household customer becomes aware that the effluent flow meter has been reset or exchanged, the retailer should notify YW wholesale using form G/01 within 2 business days of the work being completed. Alternatively, the non household

customer can email this information directly to market.operations@yorkshirewater.co.uk. This should confirm the final reading; the date the meter was reset or exchanged; the opening reading on the new meter; new meter serial number; meter location and any supporting photographic information.

4.3 It is the non household customer's responsibility to arrange the exchange/repair of a damaged/stopped effluent flow meter and feedback to the wholesaler/retailer.

4.4 It is the wholesaler's responsibility to determine any market adjustments that are due as a result of a damaged/stopped effluent flow meter and notify the Central Market Operator (CMOS).

4.5 The retailer should not enter meter readings into CMOS when a damaged effluent flow meter has been identified as this will cause inaccurate settlement and prevent the final reading from being entered into CMOS

5. Over-recording Trade Effluent Flow Meters

5.1 It is the sole responsibility of the non-household customer discharging the trade effluent to ensure that the effluent flow meter is reading accurately and any issues with the operation of the meter are fixed in a timely fashion.

5.2 It is the responsibility of the non-household customer to ensure that the effluent flow meter is calibrated on an annual basis.

5.3 YW wholesale does not accept any liability for the over-reading of the non-household customer's effluent flow meter and reserves the right to charge on the meter readings provided.

5.4 YW wholesale will not accept lack of compliance with Consent conditions as a valid reason to claim back-charges from an over-reading effluent flow meter.

5.5 YW wholesale reserves the right to refuse to back-charge where the flow meter does not meet the required YW wholesale specification.

5.6 In exceptional circumstances YW wholesale may agree to review cases of flow meter over-reads. The retailer or non-household customer must provide evidence of the over-read and be able to demonstrate that the above criteria for managing the meter has been met.

5.7 The normal timescale on a decision will be within 10 working days.

Contact Details

A non-household customer should contact their appointed retailer to submit a trade effluent enquiry G/01 to YW wholesale.

References

- Wholesale-Retail Code Part G: Trade Effluent;
- Wholesale-Retail Code Part B: Metering
- YW Wholesale Trade Effluent Code of Practice;
- YW Wholesale Enforcement Policy for Trade Effluent

Review date

01-06-2018

To be reviewed 01-06 -2019

Version Control

Version 1

Policy owner is the Trade Effluent and Network Protection Team Leader for Yorkshire Water Services

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