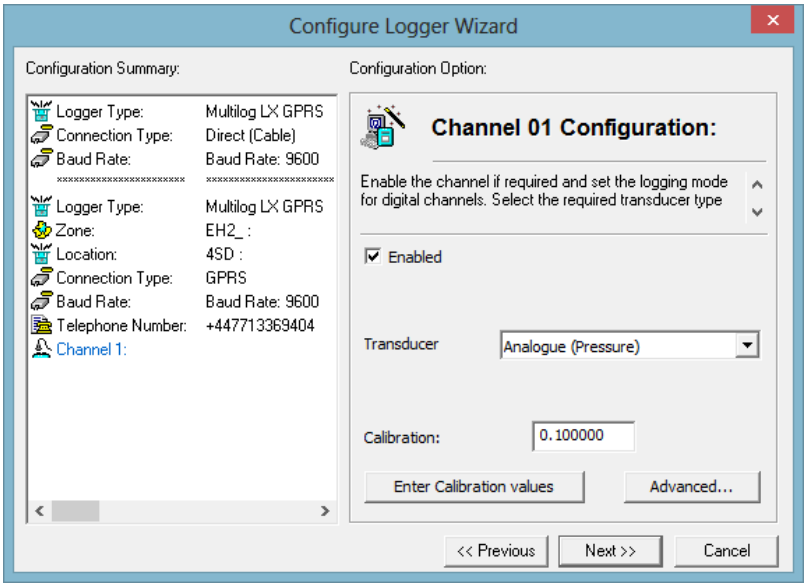
Ref: FAQ0051	Version: 1.0
Title – Permanet LX Configuration	
Made By: AB 18/06/14	(Issue 1)

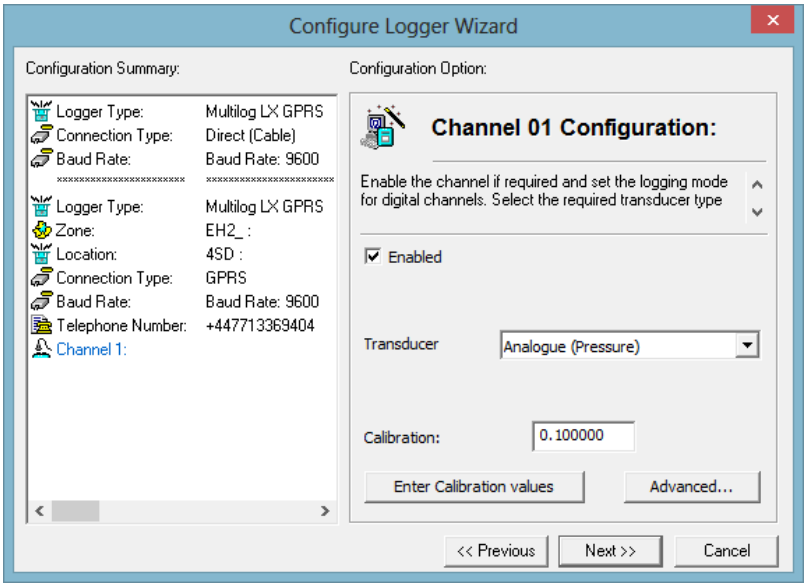
Question – How do I configure a single channel Permanet LX including setting up on Datagate and viewing on HWM Online

The general configuration for a Permanet LX is as per a normal Multilog LX – the specific requirements for this variant are as follows -

During logger configuration Channel 1 will be the 'Noise' channel
Set the calibration value to 1.0 and ensure it is 'Enabled'

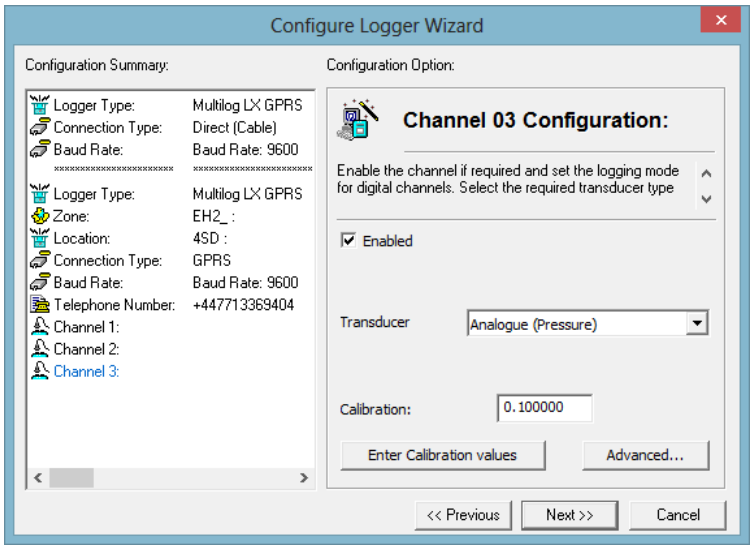


Channel 2 will be the 'Level' Channel
Set the calibration value to 1.0 and ensure it is 'Enabled'



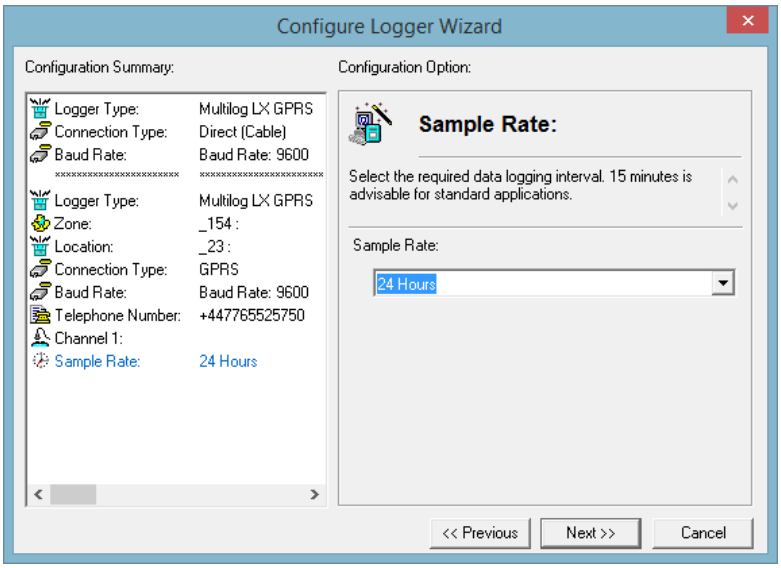
Halma Water Management, Ty Coch House, Llantarnam Park Way, Cwmbran, Gwent. NP44 3AW.
www.hwm-water.com; Tel: +44 (0) 1633 489479; Fax: +44 (0) 1633 877857

Channel 3 is the 'Leak/No leak' channel –
Set the calibration value to 1.0 and ensure it is 'Enabled'



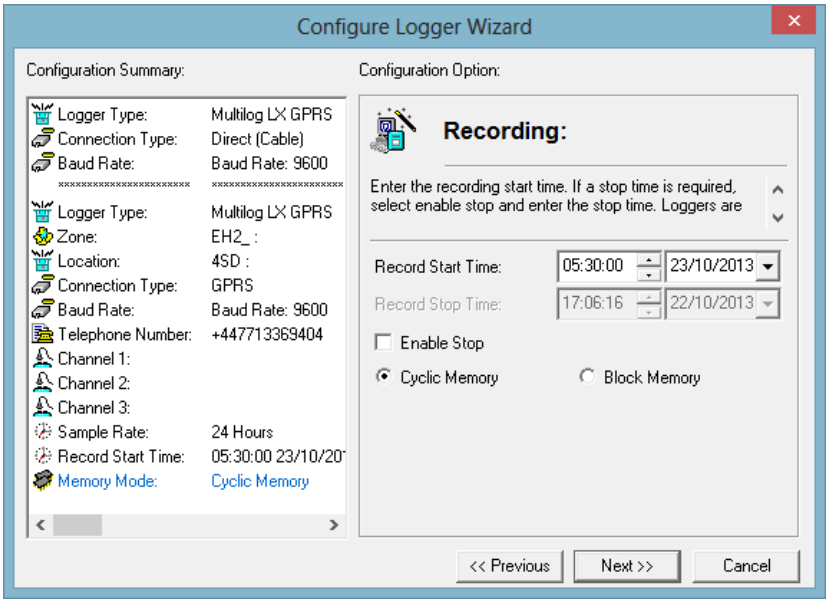
Select 'Next'

At the next screen configure the Sample rate to be '24 Hours' as below -

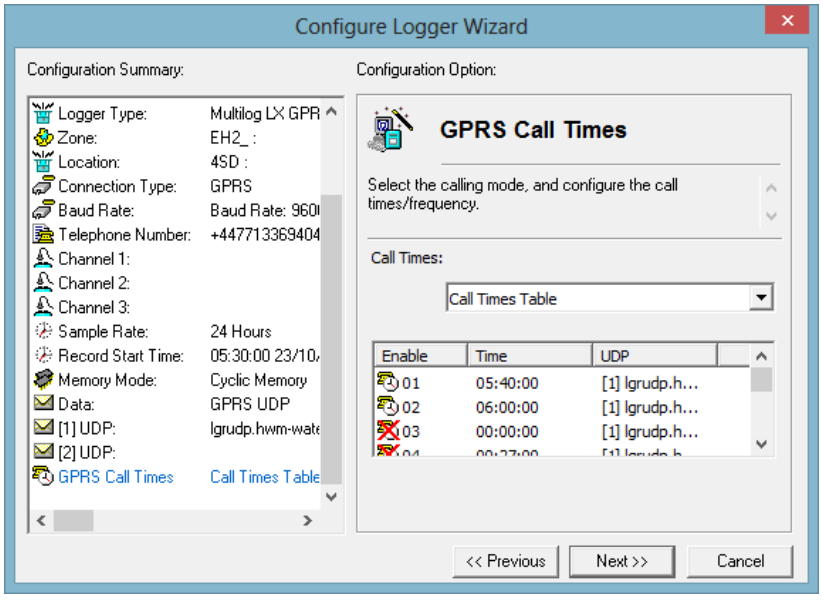


Select 'Next'

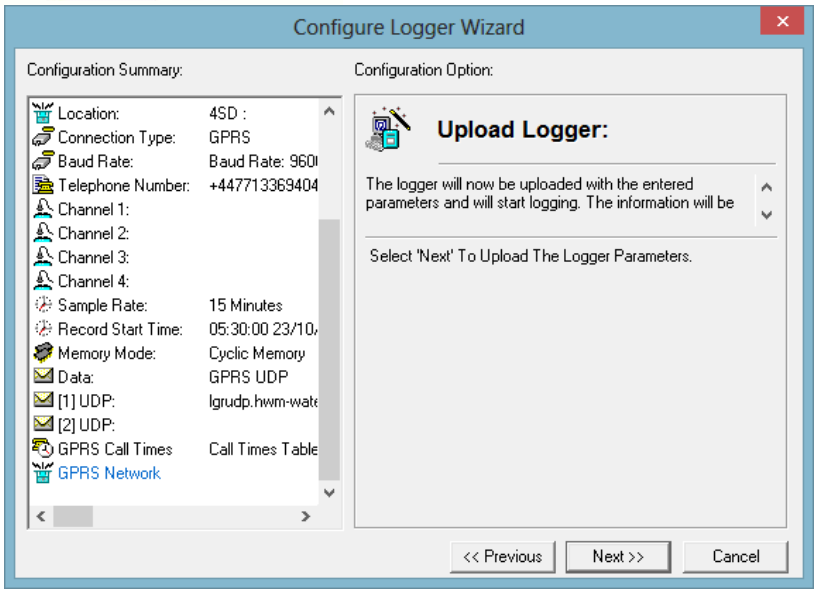
The logger start time needs to be set for 5.30am (as this defines the time the data will be downloaded from the Permalog to the LX logger each day)



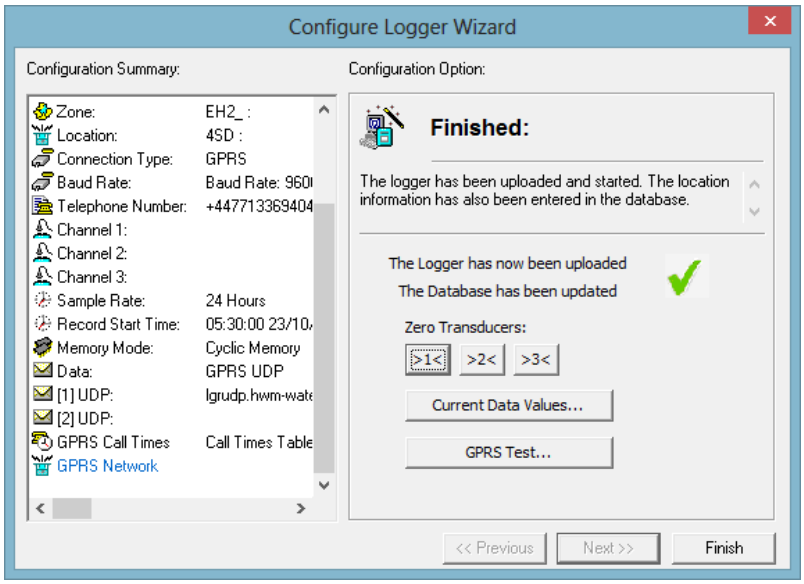
Call in should be set at twice per day at 5.40am and 6.00am



All other settings as per normal Multilog LX and then 'Upload' the settings to the logger -



Carry out a GPRS test to ensure you have communications to Datagate.

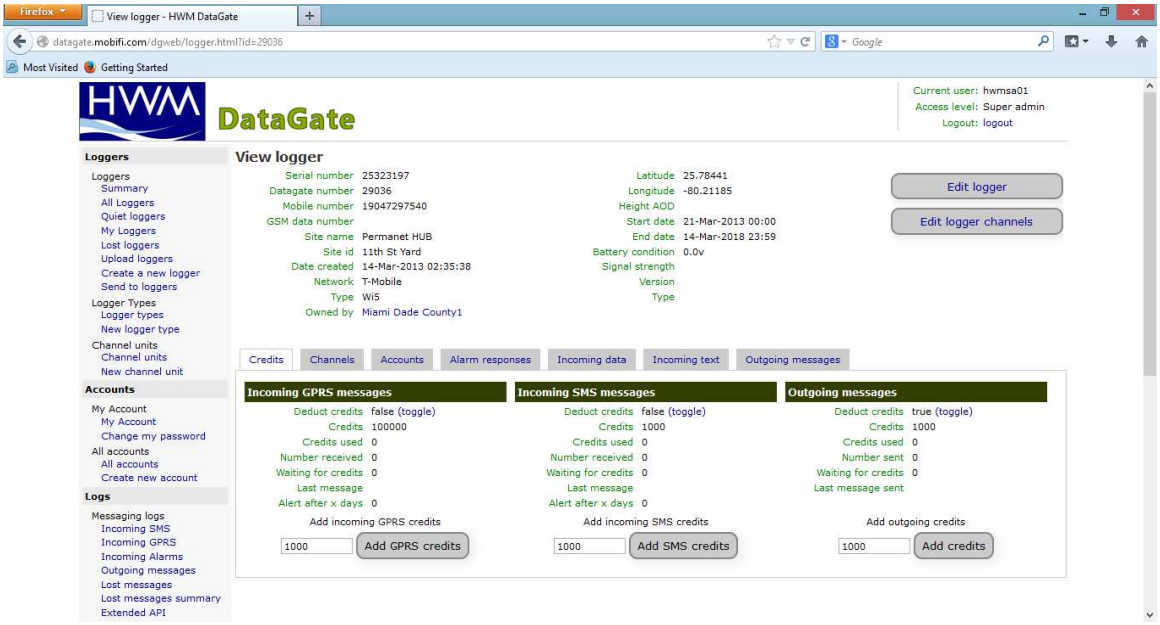


IMPORTANT

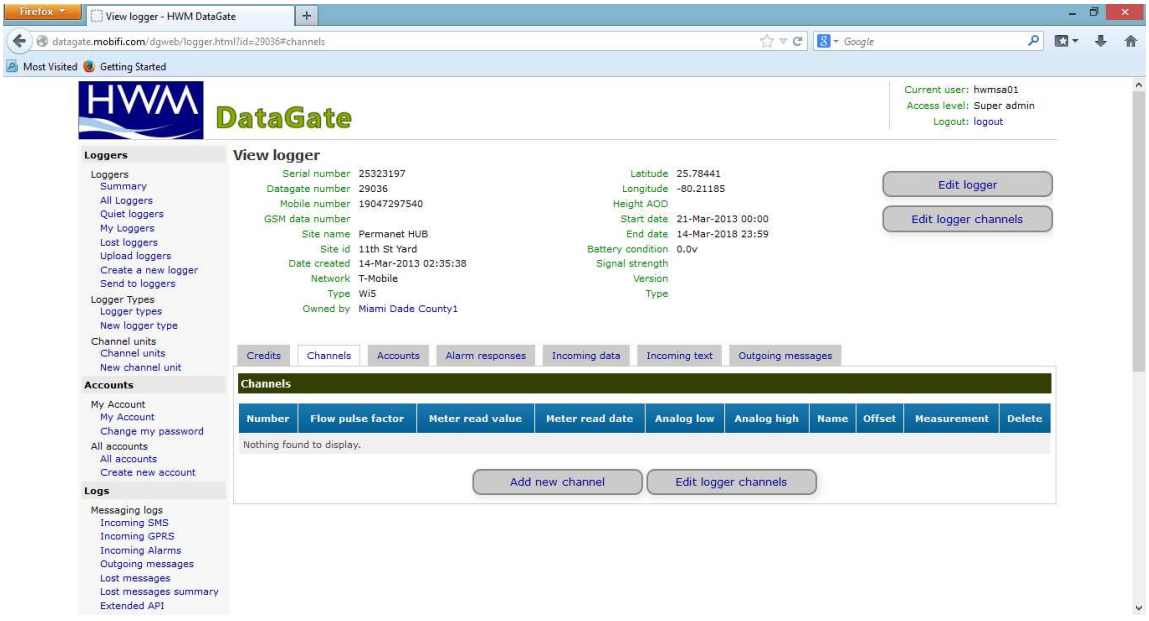
Now ensure the Permalog is 'woken up' from its transport mode by swiping the side of it using the magnetic base of the LX Antenna and ensuring there is a short sequence of Red and Green LED flashes visible in the winodw in the top of the yellow moulding -

Datagate /HWM Online

Open the correct Datagate account and locate the logger and 'open' it –



Select the 'Channels' tab –



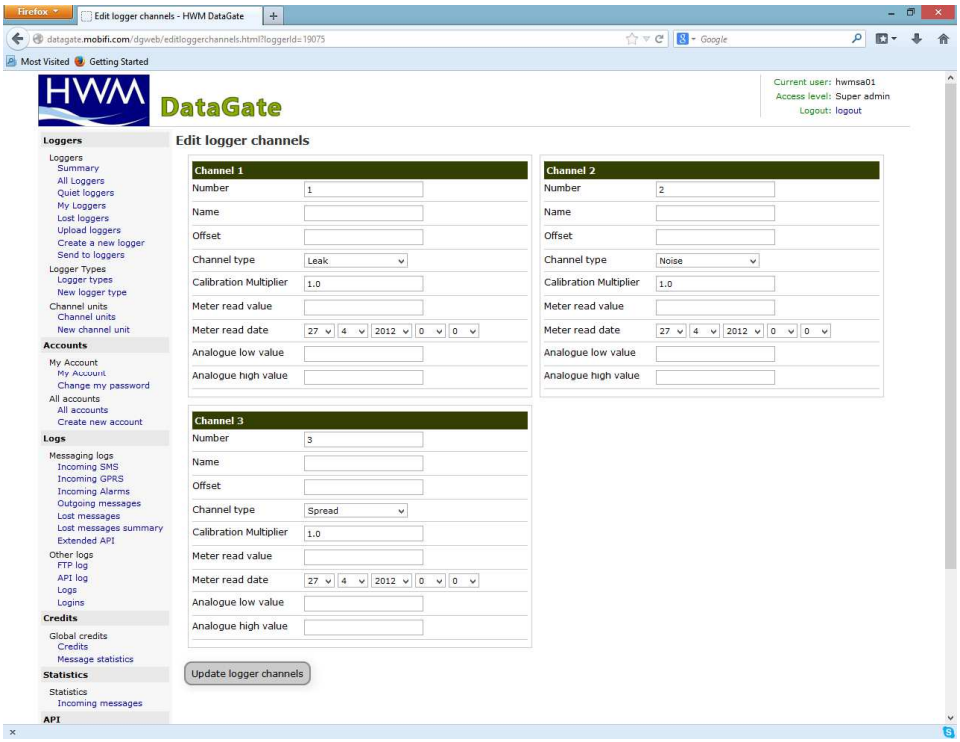
If no channels are showing then select the 'Add new channel' button

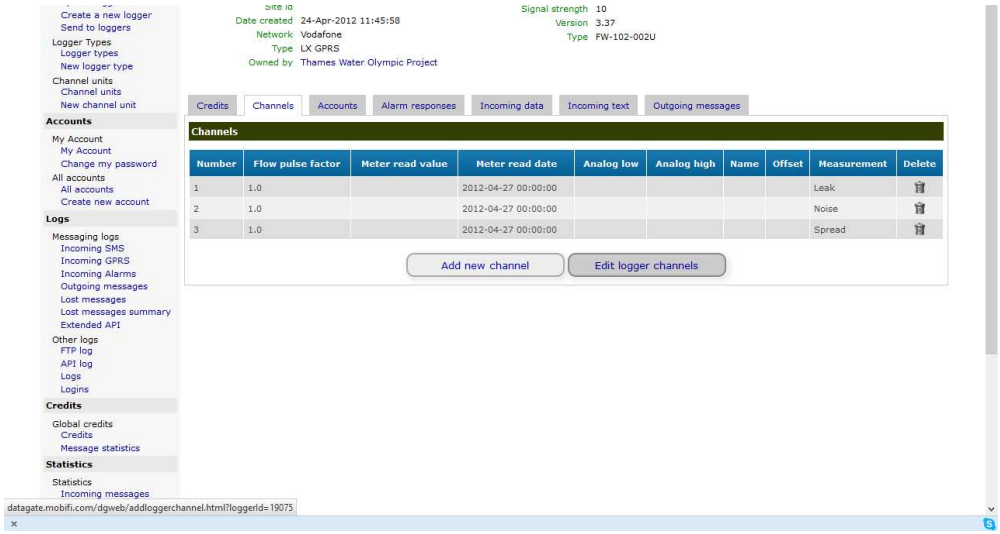
Create the channels as follows –

Ch1 = Leak/no leak Offset 0.0 Cal = 1.0

Ch2 = Noise Offset 0.0 Cal = 1.0

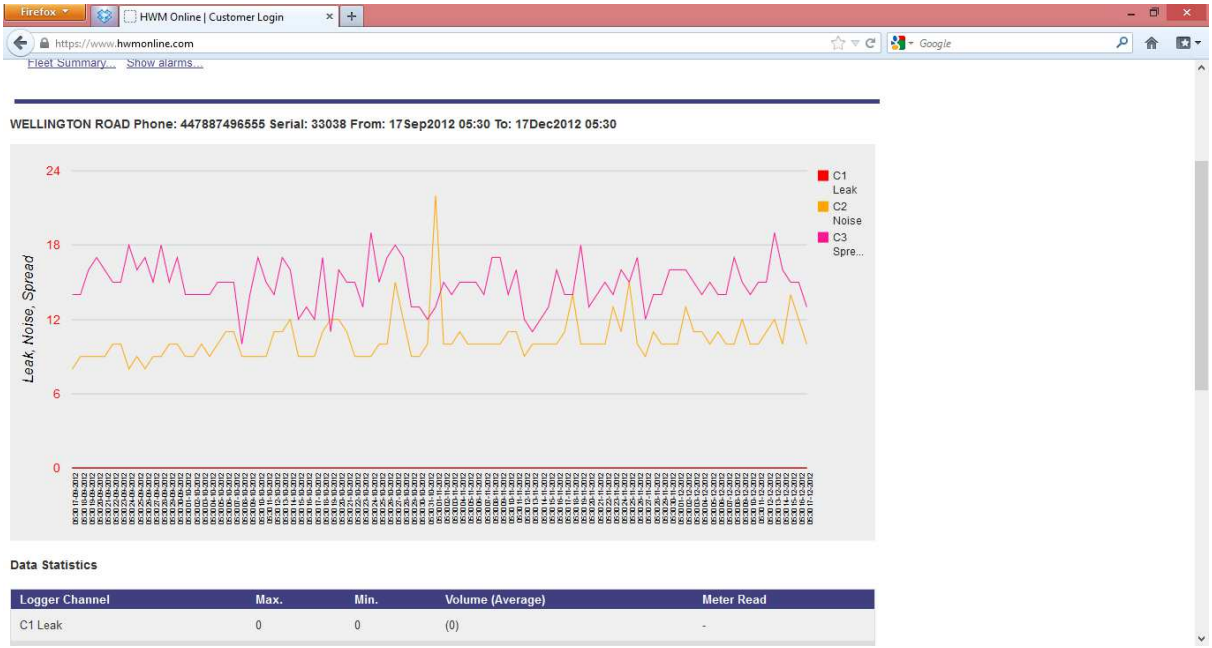
Ch3 = Spread Offset 0.0 Cal = 1.0 then select 'Update logger channels' button



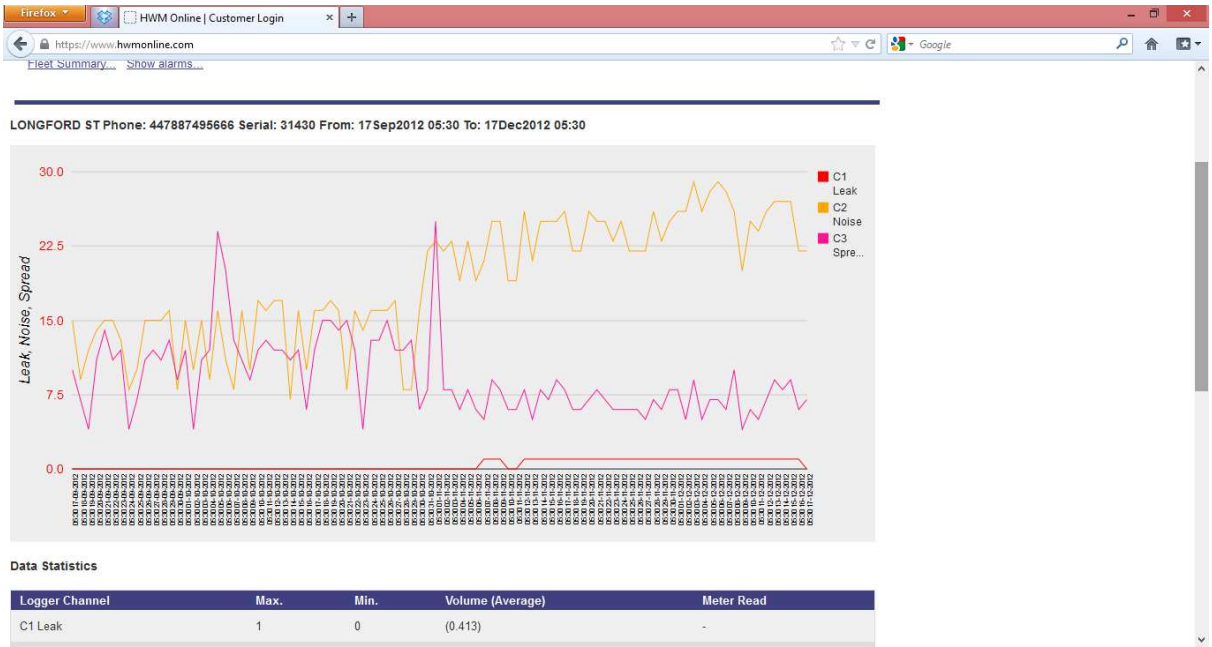


Once configured and calling in data you will be able to View the graphs on HWM Online – the longer the equipment operates the easier it is to understand the results. Following are examples of what you could see and how to interpret the graphs -

1. This graph indicates a no leak situation – the leak line is at zero. The noise and spread lines shows the ambient level of noise recorded and the spread of the noise being comparatively consistant over a 3 month period.

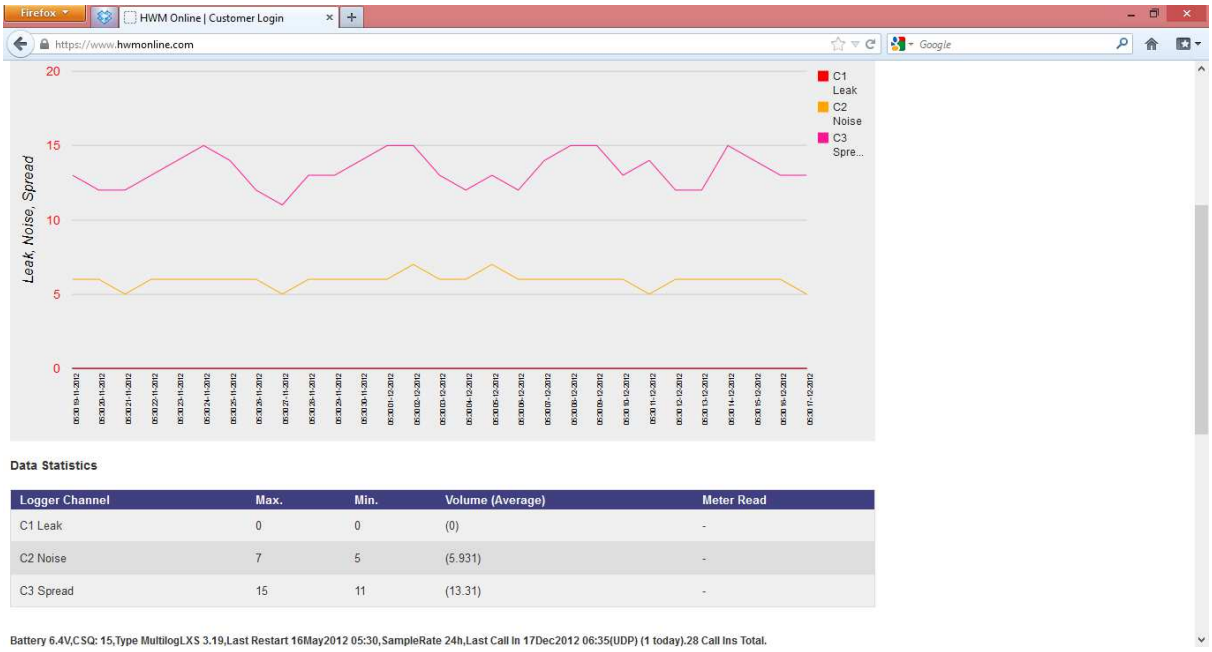


2. This demonstrates a leak situation developing following a no leak period – the leak line moves from zero to 1 to show the detection of a leak. Also notice how the noise increases when there is a leak and the
spread reduces. Generally the narrower the spread of noise the more likely it indicates a leak.



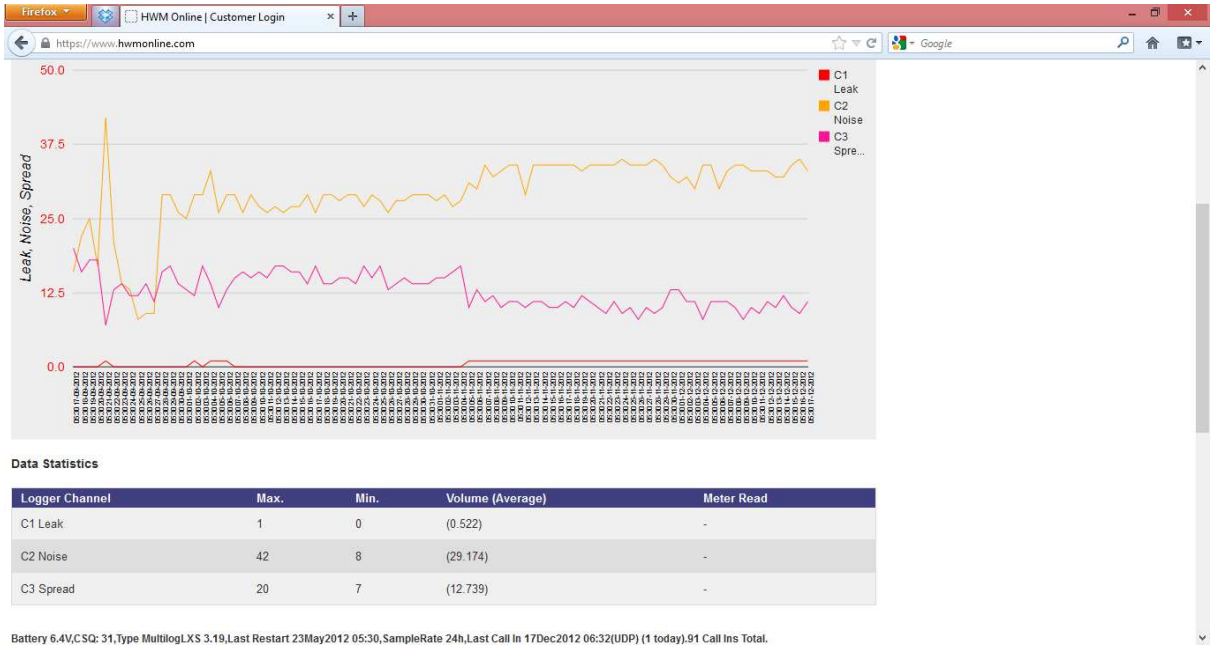
3. This demonstrates a leak situation – leak line at 1, high noise and narrow (low) spread then the leak has been corrected and the leak line goers to zero, reduced noise, higher spread.

4. This is a no leak situation – leak line at zero, level of noise moderate and spread of noise wide



5. Leak indicated by leak line moving to 1, noise increasing dramatically and spread reducing. Notice how a later increasing noise event is not a leak because the spread also increases indicating a general increase in ambient noise level.

6. Several leak conditions denoted by increasing noise but narrowing spread and then an ongonig leak event – again denoted by increased noise and lower (narrower) spread.



You will notice that in each of the above examples above a complete picture only emerges after the logger has been working for a period of time.

Document History:

Edition	Date of Issue	Modification	Notes
First	24/10/13	Release	
Second	18/06/14	Updated to FAQ format	Added HWMO section

Halma Water Management, Ty Coch House, Llantarnam Park Way, Cwmbran, Gwent. NP44 3AW.
www.hwm-water.com; Tel: +44 (0) 1633 489479; Fax: +44 (0) 1633 877857