M Gmail

<div align="right">Natalie M <natalieee369@gmail.com></div>

Fw: KSL 64278 TT Student enquiry about Flood Network sensors

Dharius Robinson <DhariusRobinson@hotmail.co.uk>   26 October 2017 at 15:31
To: "dcb34@kent.ac.uk" <dcb34@kent.ac.uk>, "natalieee369@gmail.com" <natalieee369@gmail.com>

From: KSL Enquiries <KSLE@environment-agency.gov.uk>
Sent: 25 October 2017 14:55
To: 'DhariusRobinson@hotmail.co.uk'
Subject: KSL 64278 TT Student enquiry about Flood Network sensors

Dear Dharius
RE: KSL 64278 TT Student enquiry about Flood Network sensors

Thank you for your enquiry which was received on 16 October 2017.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Please note this information is from the Kent, SouthLondon and East Sussex team. There may be slight variations in other parts of the country.

For other information on Hydrometry in relation to Groundwater and Surface water flooding telemetry. Please contact Lead Local flood Authorities, local authorities
And the British Geological Survey.

Would you expect the device to be self powered (e.g. solar powered)?
·   Our monitoring sites range in complexity depending on the monitoring required. Typically we will have a control unit (logger, telemetry outstation or similar) which allows for the collection of data from multiple sensors. The entire setup would then be powered according to the requirements of the equipment as well as the resilience required for the site. We prefer a mains or solar powered supply with a battery backup on site should the input fail.

What information would be most important to receive from the sensors (e.g. water levels, speed, rate of level change over time, etc..)?
·   Our sensors are purchased in response to the data requirements for each site. For each data type there are a number of options, with preference given based on site specific details such as location, budget, risk of vandalism, power requirement etc. For instance, if we needed to monitor river level, we could select from a pressure transducer, shaft encoder or radar unit. It is difficult to answer this question as we don't rely on a single 'flood network sensor'.

What would be the best way to have this information displayed (e.g. graphs, heat maps, etc..)
·   All of our current monitoring equipment provides values through a variety of outputs to the on-site logger/outstation. There are typically sent via 4-20mA loops, SDI-12, or Modbus. Once the data has been written to the logger/outstation, we are then able to transmit it via our telemetry system or manually attend to download the dataset. On site we do have local displays but again this depends on the requirements of each monitoring site. Typically, all of our graphical displays are presented to users through our telemetry system once data has been transmitted.

Kind regards,

Please refer to the [Open Government Licence](#) which explains the permitted use of this information.

Please be aware that many of our datasets are now available online. Simply visit **environment.data.gov.uk**

If you have any further queries or if you'd like us to review the information we have provided under the Freedom of Information Act 2000 and Environmental Information Regulations 2004 please contact us within two months and we will happily do this for you.

We would be really grateful if you could spare five minutes to help us improve our service. Please click on the link below and fill in our survey – we use every piece of feedback we receive:http://www.smartsurvey.co.uk/s/EnvironmentAgencyCustomerSurvey/?a=KSL

Kind regards

Tony Thorogood

Tony Thorogood | Customers and Engagement Officer | Kent South London & East Sussex Environment Agency | Orchard House | Endeavour Park | London Road | West Malling | Kent | ME19 5SH
Internal: 46823 External: 02084746823

tony.thorogood@environment-agency.gov.uk

DO YOU KNOW WHAT TO DO? FLOODS DESTROY BE PREPARED

From: Dharius Robinson <DhariusRobinson@hotmail.co.uk>
Sent: Monday, 16 October 2017 23:19
To: Engel, Brooke
Subject: Student enquiry about Flood Network sensors

Hi Brook,

I am a student at the University of Kent. I am currently working with a group for a project for a device that would be similar to the flood network sensors (measuring water levels within a certain area) that are used by you, and is aimed at environment agencies such as yourself.

I enquired about this, and was pointed in the direction of the Procurement department. I thought that the R&D category seemed to fit our interests best, so am hoping that I am speaking to the right person in relation to the topic.

I was hoping you would be willing spare some time to share your thoughts on some of our questions, about what you would expect from the device:

- Would you expect the device to be self powered (e.g. solar powered)?
- What information would be most important to receive from the sensors (e.g. water levels, speed, rate of level change over time, etc..)?
- What would be the best way to have this information displayed (e.g. graphs, heat maps, etc..)

Thank you very much for your time, and I hope we can hear from you soon.

Kind regards,
Dharius