Water quality continuous monitoring
Epsom and Ewell
Storm Tanks – 2015

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Location of continuous monitoring sondes
Real time monitoring equipment - ESNET and YSI 6600 sonde

- Standard Dissolved Oxygen
- Ammonium
- Optical probes: Chlorophyll, Turbidity, Dissolved oxygen
- Conductivity/Temperature
- pH
What water quality determinands can sondes measure?

- Temperature (°C)
- Electrical Conductivity (µS/cm)
- Turbidity (NTU-Nephelometric Turbidity Units)
- Ammonium/Ammonia (mg/l)
- Dissolved Oxygen (% and mg/l)
- pH
Conductivity (µS/cm)

This plot was produced using the LARDAT toolkit.
Conductivity 20/10/15 to 31/10/15

This plot was produced using the LARDAT toolkit.
Ammonium (mg/l) d/s Epsom Storm Tanks

This plot was produced using the LARDAT toolkit
Optical dissolved oxygen (% saturation)

This plot was produced using the LARDAT toolkit.
What’s next?

- More in depth analysis of this data.
- Gather in data from mid December to date and analyse – this will include data from upstream of Epsom Storm Tanks (moved from upstream Ewell Storm Tank).
- Compare water quality data with discharge history data from storm tanks.