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Hydrology Field Photos

Overview:

This is Supplementary to the Station Survey Photos (5-year Survey) or photos taken when modifying sites and installation, which is included in the Station Survey Requirements.

The on-going collection and archiving of photos provides visual insight into the changes to stations over time.

The purpose of this SOP is to provide a list of the minimum photo requirements that should be taken at every hydrometric site and their storage for long term and multi-purpose access.

Station photos should ideally be taken at similar locations to provide clear presentation of the Environmental Variable being measured or at indicative points in the data for the measured parameter.

Please note in the Survey123 app that photos have been taken

Minimum/Ideal Requirements:

Water Level, Flow and Water Quality sites:

- Annual Reach photos (ideally at summer low flows):
 - Upstream,
 - Downstream & Control & Recorder Sections,
 - Bank Vegetation,

Why: this enables some form of visualisation of the changes over time to the reach that is being measured; and hopefully isolation of significant modification of controls (in-stream & flood).

- Ideally Photos should cover over the measurement range:
 - Extreme events (Flood flows & low flows),
 - Mid-range flows (One offs),
 - Of the section at the time of survey work, ESGs, Orifice Changes (before/after).

Why: This has the potential to develop a pictorial of flow conditions; which will aid with visualisation over range and possible web tools in the future.

Rainfall, Met, Air Quality sites:

- Annual Panoramic :
 - Undertaken during summer months.

Why: to enable isolation of changes (vegetation / buildings) that might influence/effect the Data.

- Overgrown rain-gauge enclosures (and blocked Instruments / Primary Reference).

*Why: to enable assessment of influence/effect on the Data and required correction processes.
This will aid with decision on keeping records or generating Synthetic Data.*

Storage (Final Archiving) Geo-Reference.

All photos will be stored in \\ARES\Hydrology\Hydrology Sites\[Sitename]\Photos\

Sensible name and date the photos; this will make life a little easier for future use.

*Consider referencing Stage values at the time of Flood (or mid-range flows) photos.
Check that Geo-Reference (location information) and the date taken are correct.*