\\Ares\Environmental Data Validation\Atmospheric Pressure\

Logsheet Loader

Processing Period and Batch Number

Check Hydrometric and Provisional Archive

Chits: Last inspection previous batch – latest inspection

Check all chits present/correct

Batch folder: Copy in Docs and label batch #

Create new Hilltop file (*batch#.hts*) in batch folder

Hilltop <SiteName>_Raw file
\\ares\Original\Hilltop Telemetry\<SiteCode>.hts
or \\ares\Original\Internal\<SiteCode>.hts

Check data from: 1) Hydro inspection chits 2) Archive: Water Quality (keep QC) 3) Archive: Sampler Provisional and QC these inspections as 200

Copy to Working

Load Inspections Check data, "Null" for inspections with no check data (main inspection time); load any comments applicable to the data source

Start hPa Register: Initial Data stats and inspection comments

Are there any spikes or gaps?

Yes

Why? And therefore How can it be resolved?

Check Downloads: fill Original file as well...

Is the data still missing?

Yes

How much is missing?

≤ 3hours

≥ 3hours

Is there a site suitable for generating synthetic data?

Yes

No

Visual Interpolation

Synthetic data: synthetic inspections (processing comments) – logged through the register: provides the ramping corrections

No

No

Missing Data

Any changes made need to be noted in the Comment Sheet/Audit Trail. Following Standardised Comments (HRC SOP)

Complete the hPa Register – Corrected Data, as well as Correction comments and Quality Codes

1/7/2014 Do not adjust SOE results which are not to the 15 minute punch (conflict/ additional data to what is stored within WQ Archive: Hilltop is left to interpolate) Standard Hydro practice is to the punch.

Copy to <SiteName>

Quality Code the data (using the results from hPa Register)

Quality Code for Atmospheric Pressure (pre-NEMS; HRC SOP)

All final differences (Adjusted logger – Check value)
- Good Quality QC = 600: will be given to data that falls within ±2.5mbars of the check data
- Fair Quality QC = 500: will be given to data that falls within the range ±2.5-5.0mbars of the check data
- Poor Quality QC = 400: data that may be compromised
- Poor Quality QC = 300: synthetic record derived from calculations
- Poor Quality QC = 200: data has not been verified
- Poor Quality QC = 100: missing record

* Lowest QC prevails and apply QC from time of last good inspection

Audit [Raw-Final VM]

Finish paper work: Open Audit trail in excel and save in Audit tab. URF, FDT, comment sheet print to PDF (open in excel)

Prior to September 24, 2012, YSI's were calibrated to the Te Matai Rd barometer. After this data, the Victoria Avenue sensor became the primary reference sensor and this resulted in a step change in the barometric pressure readings from the hand held YSI's. YSI Pro 7 was unaffected as this one was never adjusted to Te Matai Rd (science's meter)

Copy to Provisional Archive

Complete Logsheet Loader

Compile and hand in for review