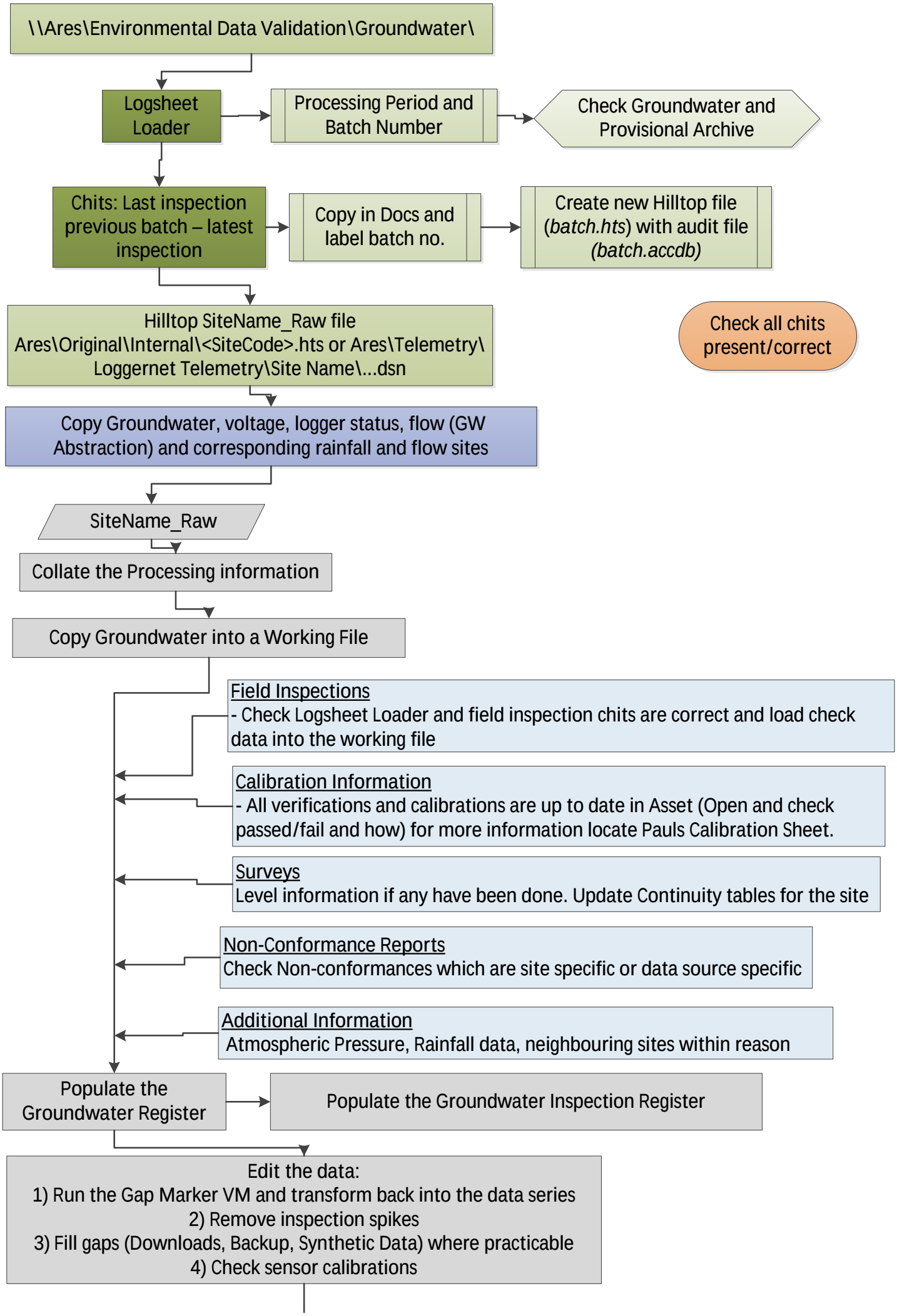
\\Ares\Environmental Data Validation\Groundwater\
Logsheet Loader
Processing Period and Batch Number
Check Groundwater and Provisional Archive
Chits: Last inspection previous batch – latest inspection
Copy in Docs and label batch no.
Create new Hilltop file (batch.hts) with audit file (batch.accdb)
Check all chits present/correct
Hilltop SiteName_Raw file Ares\Original\Internal\<SiteCode>.hts or Ares\Telemetry\ Loggernet Telemetry\Site Name\...dsn
Copy Groundwater, voltage, logger status, flow (GW Abstraction) and corresponding rainfall and flow sites
SiteName_Raw
Collate the Processing information
Copy Groundwater into a Working File
Field Inspections
- Check Logsheet Loader and field inspection chits are correct and load check data into the working file
Calibration Information
- All verifications and calibrations are up to date in Asset (Open and check passed/fail and how) for more information locate Pauls Calibration Sheet.
Surveys
Level information if any have been done. Update Continuity tables for the site
Non-Conformance Reports
Check Non-conformances which are site specific or data source specific
Additional Information
Atmospheric Pressure, Rainfall data, neighbouring sites within reason
Populate the Groundwater Register
Populate the Groundwater Inspection Register
Edit the data:
1) Run the Gap Marker VM and transform back into the data series
2) Remove inspection spikes
3) Fill gaps (Downloads, Backup, Synthetic Data) where practicable
4) Check sensor calibrations

Copy to Corrected:
Apply all ramps, transformations and offset corrections for sensor drift/calibration drift, instrument change or site relocation

Update the Groundwater Register

Copy Corrected to SiteName

Apply Quality Code

QC 600 = Final Difference ESG/EPB and Logger ≤ ± 10 mm or ≤ 0.2 % effective stage
QC 500 = Final Difference ESG/EPB and Logger ≤ ± 20 mm or ≤ 0.5 % effective stage
QC 400 = Final Difference ESG/EPB and Logger > ± 20 mm or > 0.5% effective stage

QC 600 = Ramps ≤ ± 10 mm
QC 500 = Ramps ≤ ± 20 mm
QC 400 = Ramps > ± 20 mm

QC 500 = All minor edits to the data ≤ 3 hours with comment
QC 400 = All major edits to the data with comment
QC 300 = Synthetic with comment
QC 200 = Cautionary/Unverified Data with comment
QC 100 = Missing record with comment

Failed calibration = QC 500 from punch after last calibration/ installation to new sensor/calibration
Outside of calibration time frame (i.e. 1 year) but did pass when calibrated = QC 500 from day after expiration of calibration at midnight to time of new sensor/new calibration.

Audit

Get "{SiteName_Raw} Measurement [Datasource]]" as x
Get "{SiteName} Measurement [Datasource]" as y
z = y-x
Put z

Apply correction factor/site offset for MSL

Attach any working – update all site information where appropriate

Copy data to the Provisional Archive

<u>Print off to hand in (in 1pdf document):</u>
1. URF
2. Groundwater Register
4. Comment Sheet (Archive)
5. Final print out with QC and Raw and Audit
6. Drift Graph
7. Reference Check Graph
8. Survey information

Any information which will assist in explaining what has been done to the data and why

Groundwater Site	Bore Number	Depth (m)	RL	MSL (m)	Archive Correction Factor (m)
Amons	322029			35	
Butlers	632999			44	
HDC Foxton 1	342071	65		10	
HDC Foxton 3	342105	211		10	
Kuku Beach	362035			17	7.644
MDC Himitangi Deep	332018	168		9	
MDC Himitangi Shallow	332003	69		16	
Rapanui at Graciefields	699011			40	48065
Saddle Road	327003		48.065	75	65.577
Sexton Land Co.	332051	100			
Sexton GW	342107			5.228	
Te Matai Rd	336991			38	
Waitarere	352261			30	