This form is to be completed, signed and forwarded to Unitywater for each water main commissioning prior to connection to Unitywater's network. Information captured is a requirement under the SEQ WSA03 Water Supply Code of Australia. *(For definitions refer Pr9032 - Procedure for Managing Water Quality During Mains Commissioning)*

Water Quality Mains Commissioning Form

General Details	
Location of commissioning activity: *Street(s), Suburb(s)*	
Water Main Pipe Diameter(s) mm : Pipe Length(s) m: Volume(s) kL:	
Name of Unitywater Contact:	
Step 1: Flushing	**Water flushing ☐ or Swabbing ☐**
Volume used to flush (kL): Time taken to flush (mins): Receiving Environment: (Details of where water is discharged to, etc.) *Note: Flushing water to be disposed of in accordance with Water Services Association of Australia (WSAA) Guideline: Dechlorination of Drinking Water to Discharged Waterways, National Guidance for the Urban Water Industry 2019.* *For water flushing, velocity shall be ≥ 1.0m/s*	
Step 2: Disinfection	
Chlorine Injection Point distance from dosing end of main (meters): *(Note: Should be no more than 3m)*	
Total Volume of Disinfectant Used (kL):	
FCR Monitoring during contact period Time = 0[1] min. FCR reading (mg/L): Time = 15[2] min. FCR reading (mg/L): Time = 30[2] min. FCR reading (mg/L): Time = 45[2] min. FCR reading (mg/L): Time = 60[2] min. FCR reading (mg/L): *Note[1]: must be > 5mg/L at start of reading* *Note[2]: if free chlorine drops below 3mg/L at any time during the contact period, the disinfection process must be repeated*	
Total Contact Time (hrs.): *(Note: Minimum time 1hr)*	

Step 3: Dechlorination (displacement of disinfectant)	
FCR measured at commencement of discharge at end of main (mg/L):	
Volume of Chlorinated Water Discharged (kL):	
Volume of Fresh Water Used (kL):	
Receiving Environment: (Details of where water is discharged to, etc.) *Note: Discharge water to be disposed of in accordance with Water Services Association of Australia (WSAA) Guideline: Dechlorination of Drinking Water to Discharged Waterways, National Guidance for the Urban Water Industry 2019*	
Step 4: Filling	
FCR(s) measured at end of filling process (mg/L): *Note: to be sampled from end of each branch/dead end main and must be <3mg/L*	
Step 5: Water Quality Sampling *Only required for commissioning water mains > 50m in length OR > DN300* Copies of Chain of Custody documentation attached ☐	
Sampler Name: NATA Company: *Note: must be a NATA Accredited Sampler*	
Sampling Date:	
Number of samples collected: *Note: If more than 5 branches or dead end mains additional samples must be collected midpoint, one (1) per additional branch/dead end.*	
Step 6: Water Quality Analysis *Only required for commissioning water mains > 50m in length OR > DN300*	
Laboratory Name: *Note: must be a NATA Accredited Laboratory*	
Step 7: Water Quality Results Assessment	
"Passed" result received from Unitywater Officer Name: Date: *Note: notification of a "passed" result must be received from Unitywater in writing*	

Form Completed by: **Name and Signature:** **Company:** **Date:**	

Note: Completion of this form does not authorise connection to Unitywater's network. Connection is also subject to approval of the PNI (Planned Network Intervention)

Figure 1

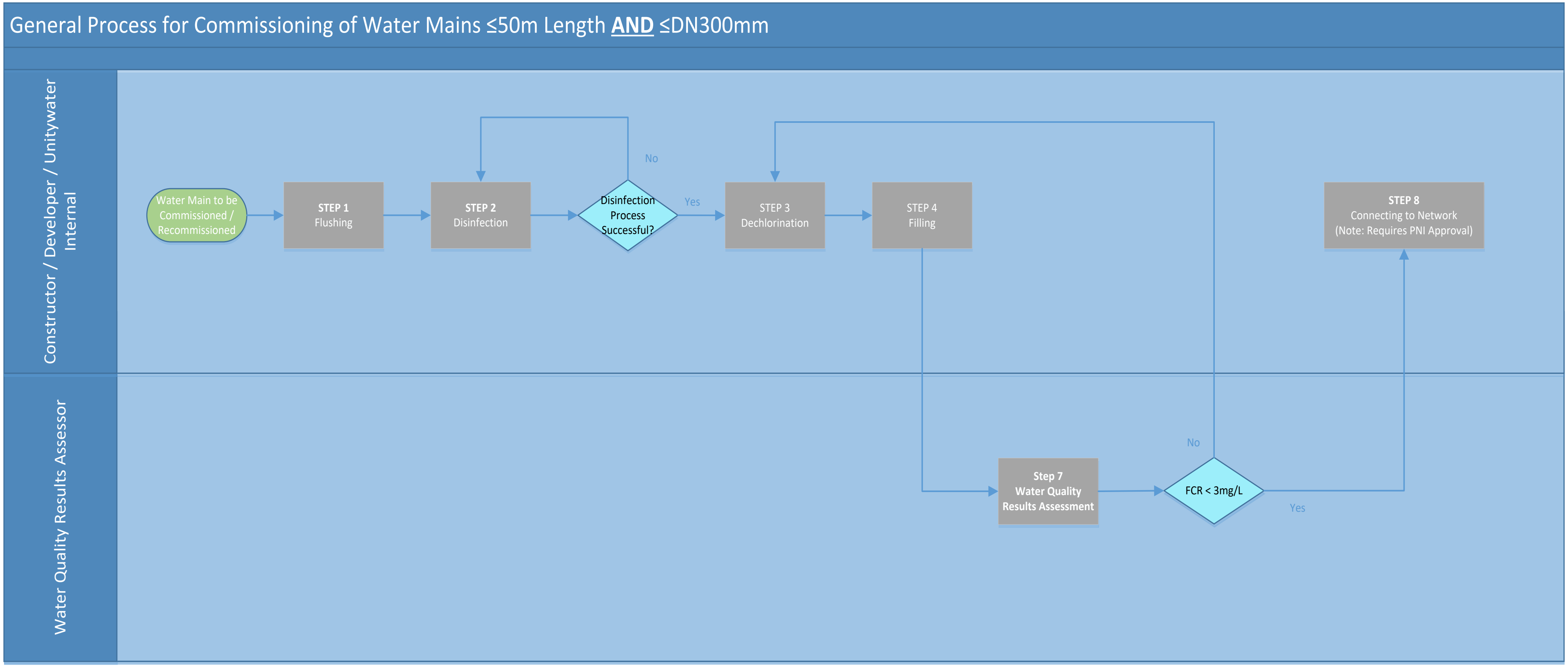
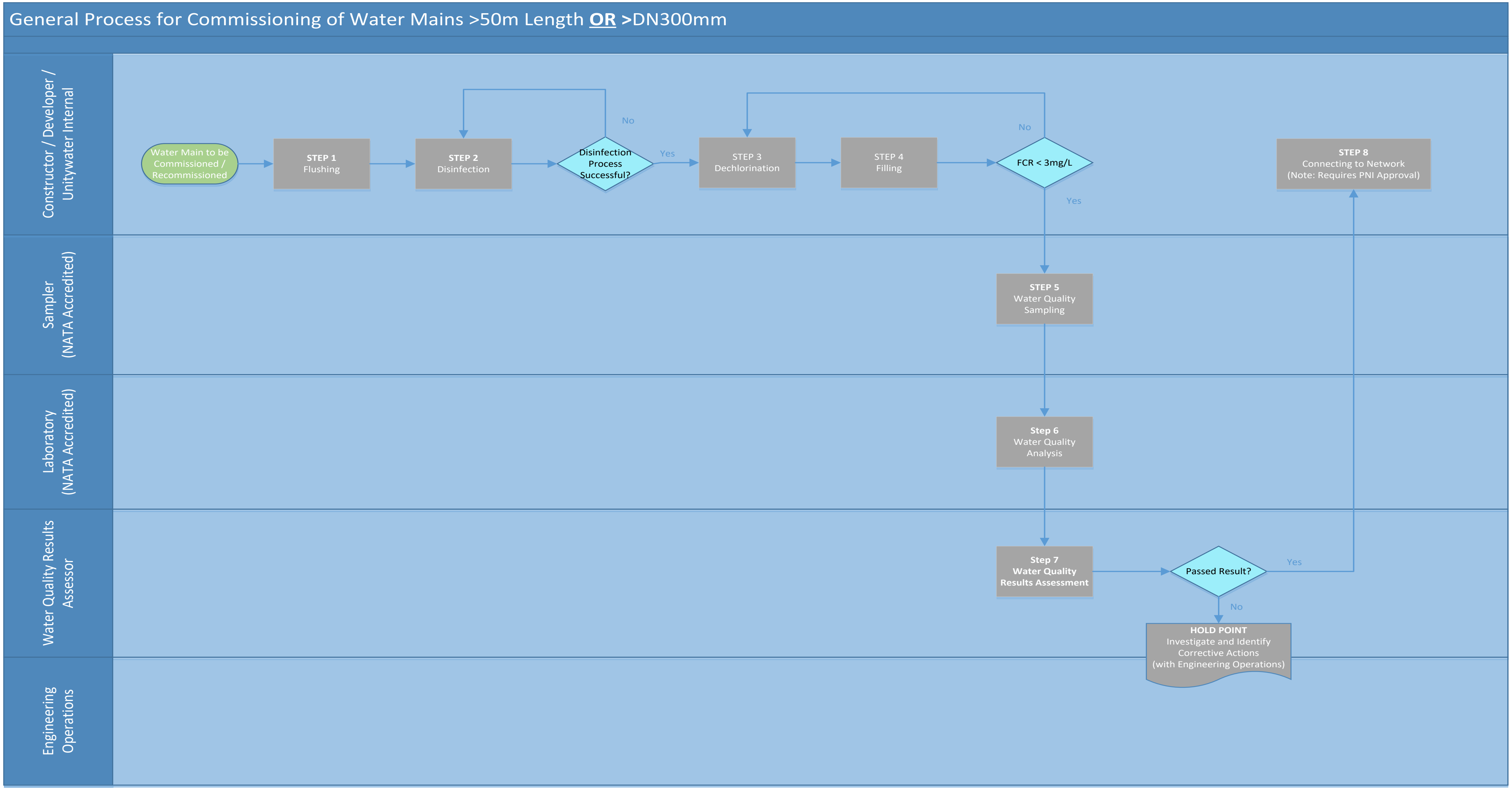

General Process for Commissioning of Water Mains ≤50m Length **AND** ≤DN300mm
Constructor / Developer / Unitywater Internal
Water Quality Results Assessor
Water Main to be Commissioned / Recommissioned
STEP 1
Flushing
STEP 2
Disinfection
Disinfection Process Successful?
No
Yes
STEP 3
Dechlorination
STEP 4
Filling
STEP 8
Connecting to Network
(Note: Requires PNI Approval)
Step 7
Water Quality Results Assessment
FCR < 3mg/L
No
Yes

Figure 2


General Process for Commissioning of Water Mains >50m Length OR >DN300mm
Constructor / Developer / Unitywater Internal
Sampler (NATA Accredited)
Laboratory (NATA Accredited)
Water Quality Results Assessor
Engineering Operations
Water Main to be Commissioned / Recommissioned
STEP 1 Flushing
STEP 2 Disinfection
Disinfection Process Successful?
No
Yes
STEP 3 Dechlorination
STEP 4 Filling
FCR < 3mg/L
No
Yes
STEP 8 Connecting to Network (Note: Requires PNI Approval)
STEP 5 Water Quality Sampling
Step 6 Water Quality Analysis
Step 7 Water Quality Results Assessment
Passed Result?
Yes
No
HOLD POINT Investigate and Identify Corrective Actions (with Engineering Operations)