

IRRIGATION INSPECTION CHECK LIST

CKLIST-PPL-QS-02



PROJECT NAME: _____
 SITE LOCATION: _____
 INSPECTORS NAME: _____ DATE: ___/___/___

CONTRACTORS BUSINESS NAME: _____

INSPECTION Activity	CHECKED Y/N	RESULT Pass/Fail	ACTION REQUIRED Description
Solenoid Valves			
Correct clearance (top of valve to underside of box lid)			
Ball Valves can be turned on/off			
No leaks (tested under pressure)			
Pipe work not resting against box or bricks			
Valve Boxes			
Level with finished turf if installed in turf			
Above mulch level if installed in garden			
Engrave & clearly number with ICC (3 digits)			
Engrave & clearly label AV, FV, QCV etc			
Correct valve box type, as per TCC specifications			
Bolts fitted & nuts not damaged			
Evenly supported by bricks			
No excessive cut outs			
Electrical			
Electrical Test Certificate(240v) obtained			
Electrical schematic attached inside enclosure door			
Check cable joints (crimp connectors & ES2 heatshrink)			
Record field wiring resistances			
Station wiring resistances between 20 - 60ohms for AC coils			
Station wiring resistances between 4 - 35ohms for DC coils			
Conduits sealed at controller & first electrical pit			
Controller wired correctly & neatly			
Flow meter is wired in circuit			
Flow Meter pulses at the controller terminal blocks are present			
Control cables are tagged at electrical pits			
Electrical pits level with ground			
Earth stake installed in first electrical pit			
Control conduit lengths in pits			
Control cable loop length in pits			
Controller enclosure door locks fastened			
Controller enclosure exposed earthing points fastened			
Test Run			
Review ICC irrigation program via ICC Pro application			
Test each station with smart phone			
Simulate irrigation program (run paired stations manually)			
Paired station pressures = design & manufactures specifications			
Pressure difference between 1st & last sprinkler per valve <10%			
Pressure difference between 1st sprinklers per program line <10%			
As Cons			
Contain updated landscape & civil bases			
Irrigation assets have been surveyed (if required)			
Final As Con Plans PDF & DWG submitted to TCC on CD or via FTP			
Final wiring table/plan correct & complete			
Check actual flow rates against designed flow rates			
Update As Con flow rates (if required)			
Contain any electrical power infrastructure related to irrigation			
Final As Con Plans checked on site			

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Sprinklers			
Correct height			
Plumb			
No low head drainage			
Seals not leaking			
No leaks from un-tightened sprinkler tops			
Arcs adjusted correctly			
No over spray onto roadways			
No over spray onto private fences			
No dry spots			
No excessively wet spots			
Insufficient sprinkler coverage			
Foliage blocking sprinkler/s			
Confirm quantity & nozzle sizes (& record)			
Sprinkler pressures are to design & manufactures specifications			
Drip Stations			
No leaks			
No dry spots			
No excessively wet spots			
Air valves operating			
Flush valves operate ok			
Flags installed (570 series)			
Drip filter/poison filters cartridges are installed			
Pressure regulators installed & set			
Check operation pressure at flush valves (20psi - 30psi)			
Header & collector pipe is properly covered in loam			
Drip system max/min tube/pipe offset distances are correct			
Fertigation			
Installation complete to specification			
Water Meter/Backflow Assy/Master Valve			
DC03 or RP03 backflow prevention device installed			
Current Backflow Test Certificate issued to TCC			
Water Meter/Backflow/Master Valve Assy installed to specification			
Master valve is wired in circuit			
Master Valve is in automatic mode & is working			
Specification support stand/s fitted			
Stainless steel cover fitted			
Pad lock fitted & can be opened/closed easily			
Ball Valve handles removed			
HD pipe sleeve fitted to electrical conduit			
Pulse & MV wires terminated with open ended crimp connector			
Mainline			
QCV's inspected			
Test for leaks, (manual open MV & observe water meter movement)			
"Kerb Markers" installed for all hard surface crossings			
Site			
Trenches filled & no trip hazards			
Rubbish/dirt/rocks removed			
Site is mowable (turf area's)			
Barricades & construction pegs removed			
Contractors WH&S person has inspected site & deemed it safe			
No dry spots			

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No excessively wet spots			
Program			
Telemetry Irrigation Program is fully operational			
Check calculated flow rates = actual flow rates at the water meter			
No flow alarms or Communication faults for the site			

Completed forms to be emailed to
GROUP-IrrigationSetupRequestForms@townsville.qld.gov.au