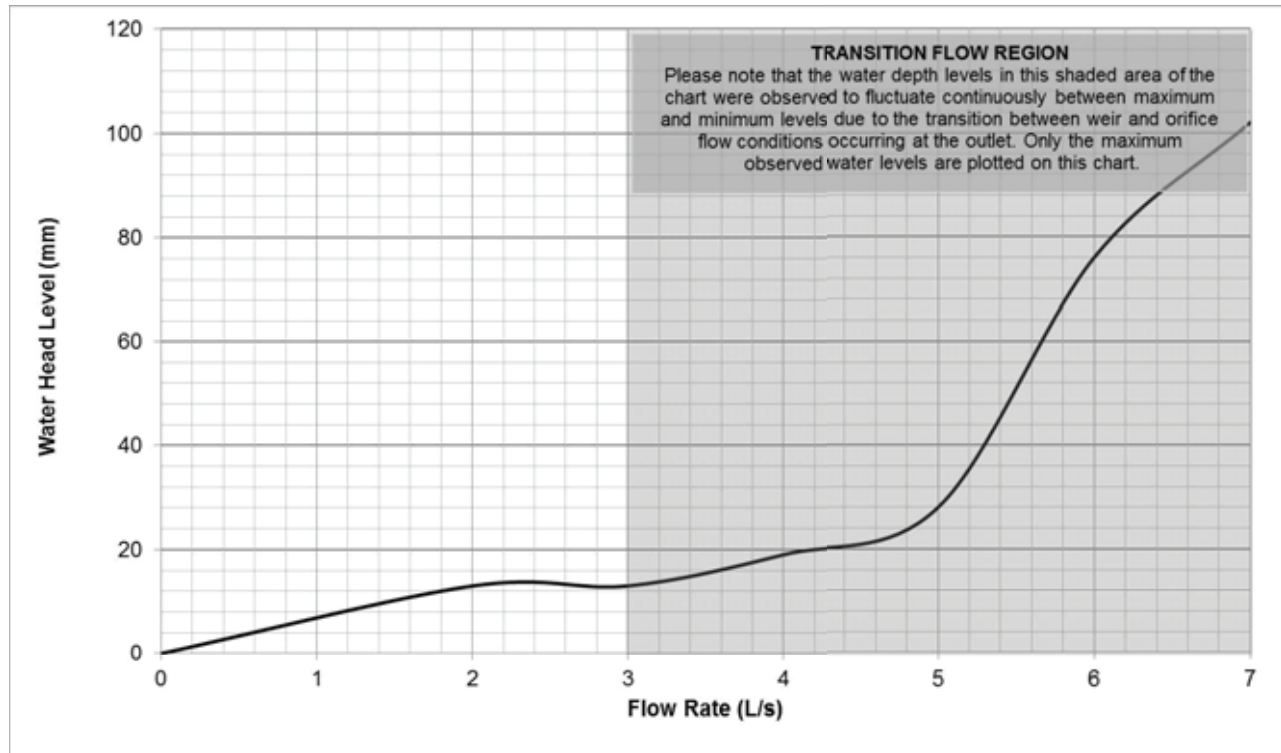


**Flow Characteristic Curve – TIA100/90F**



Weir Flow – 3 L/s (15mm)



Surcharged flow – 4 L/s (20mm)

**Observation Comments:**

- Flow rates from 2.0-3.0 L/s (15mm Head) produced a flat characteristic curve with stable water head levels.
- At 4.0 L/s the weir flow transitioned to vortex flow, cycling between vortex and surcharged flow.
- At 5.0 – 7.0 L/s the flow surcharged with the water head rising rapidly to 100mm.
- The maximum flow limit to maintain weir flow conditions is 3.0 L/s.

I hereby certify that the test results presented on this outlet performance certificate are true and correct and were obtained using recognised AHSCA Gutter Outlet Testing procedures.

Dr Terry Lucke,  
Chief Researcher:



Mark Alexander,  
AHSCA Foundation Chairman:



Date: 16<sup>th</sup> November 2016

Date: 16<sup>th</sup> November 2016