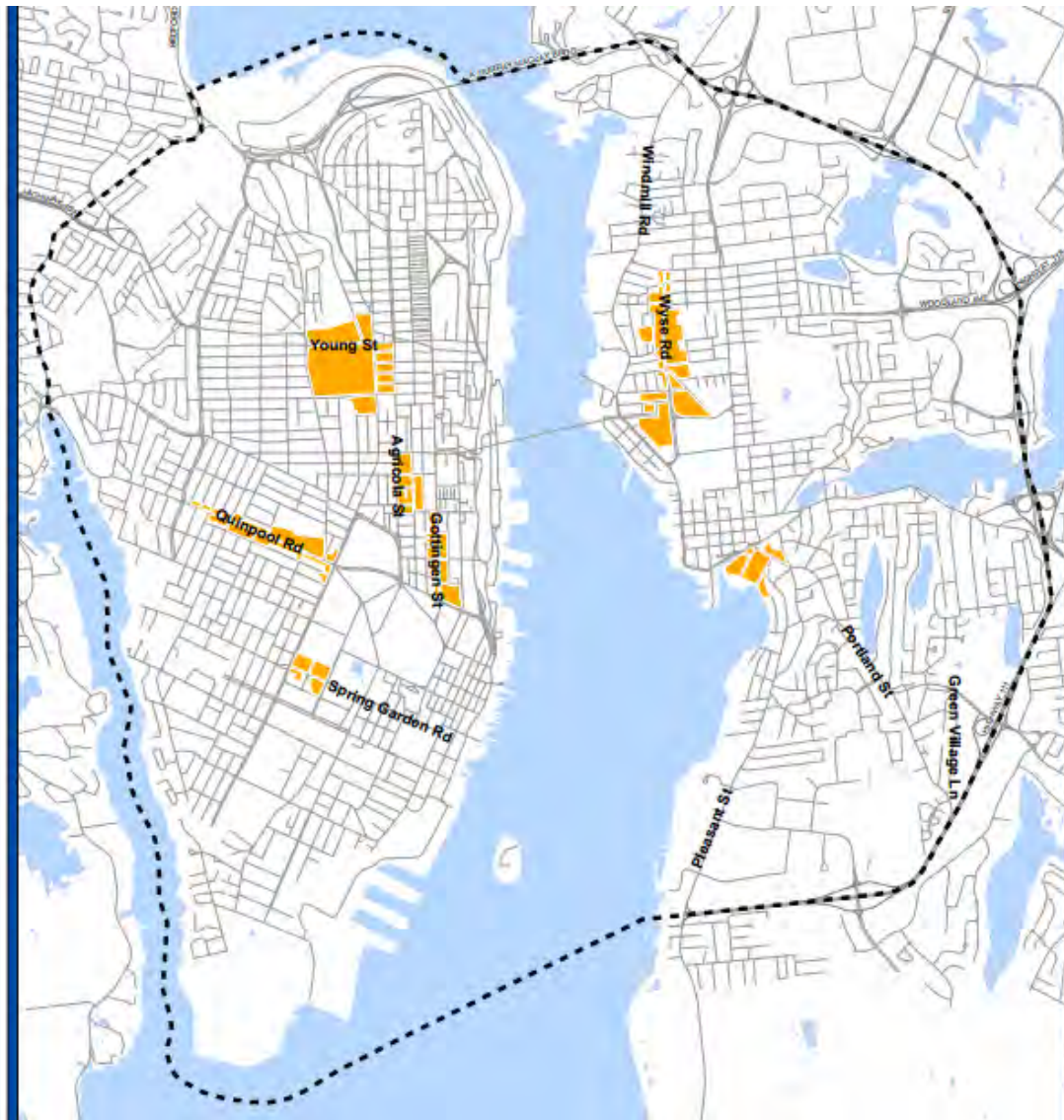


Halifax Water LoWSCA: Local Centre Wastewater Servicing Capacity Analysis

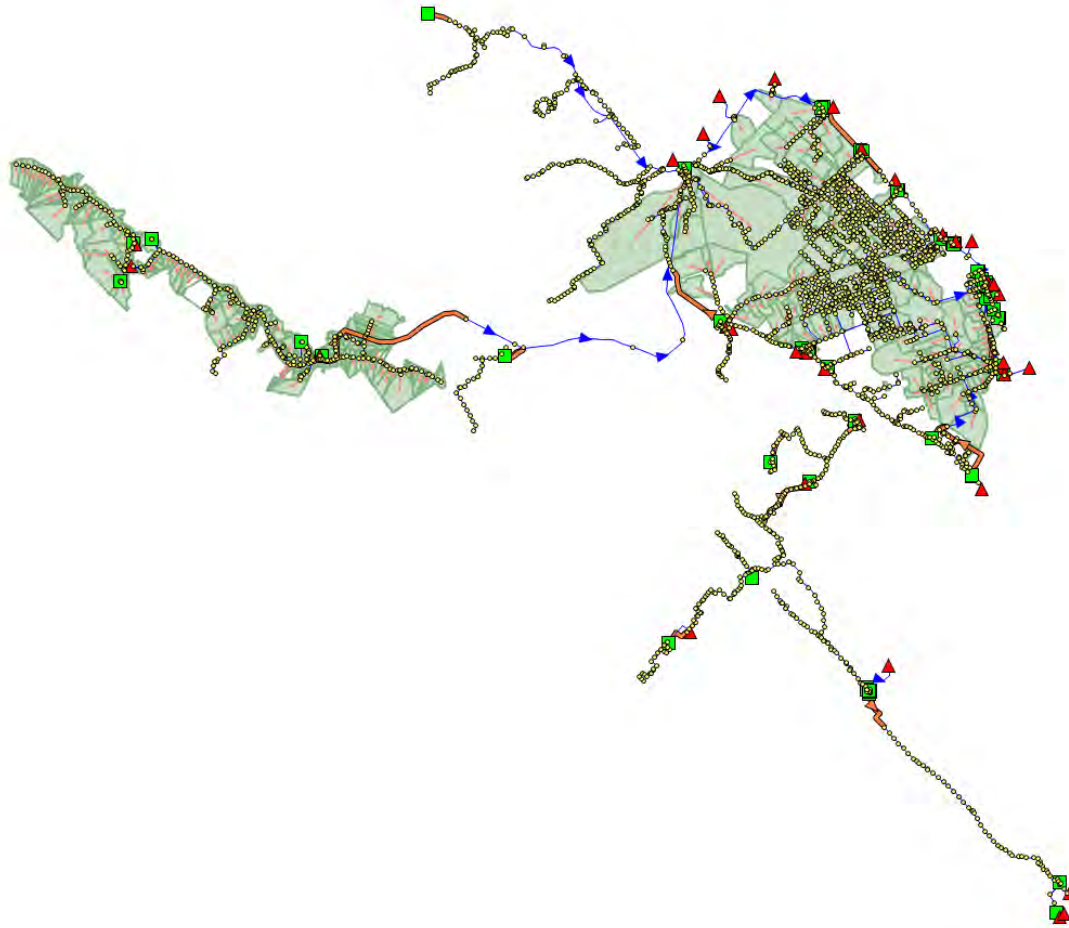


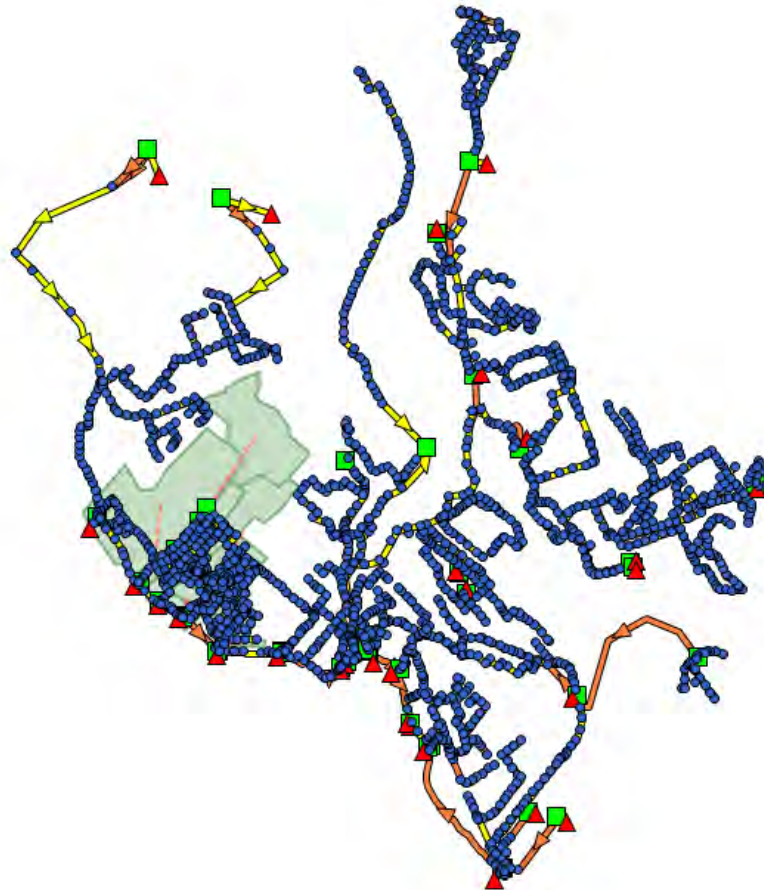
- Capacity analysis of the local pipe infrastructure between the potential intensification areas and the nearest regional infrastructure.
- The analysis will provide:
 - Options and cost estimates for required upgrades
 - Determine the population that would trigger the upgrades

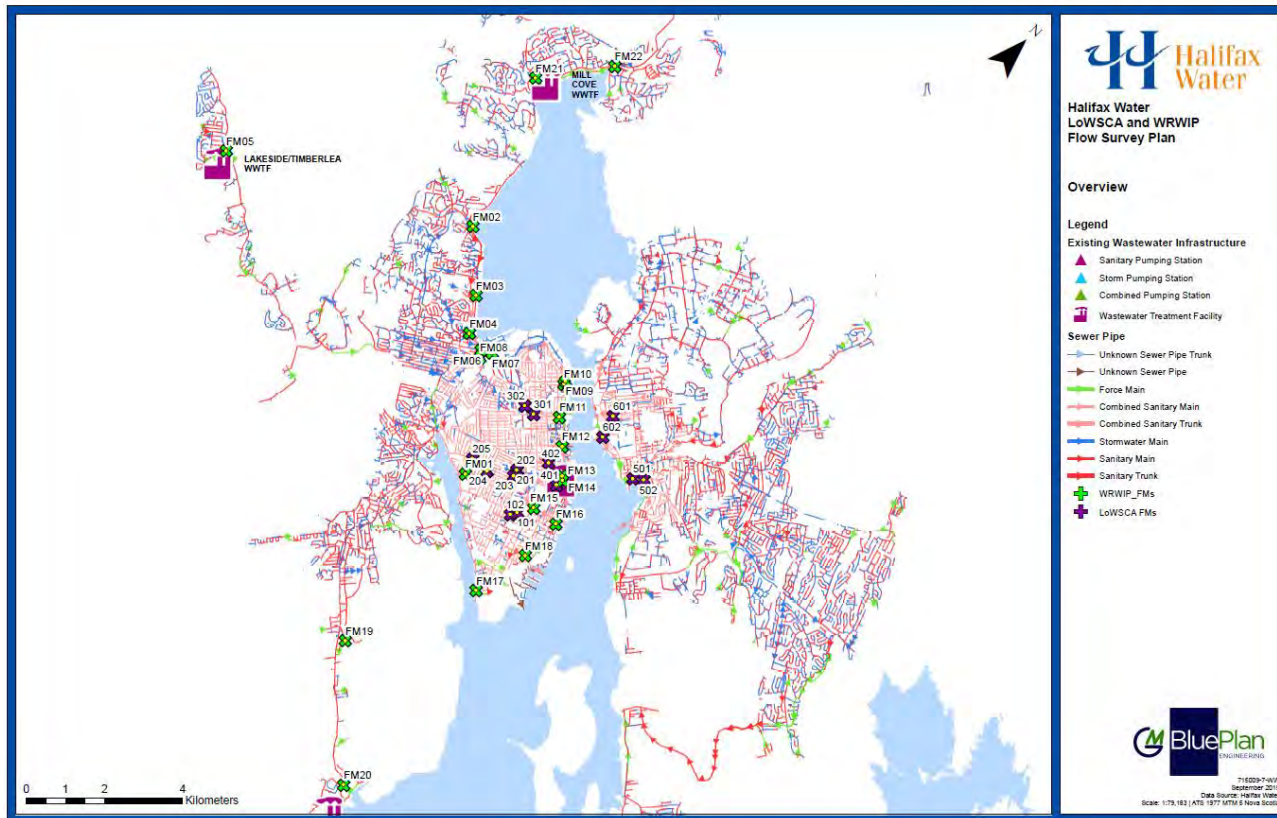


Status Overview

- All pipe models built for 6 pockets;
- Developed a combined model for Halifax;
- Developed a combined model for Dartmouth;
- Flow survey and rainfall data reviewed ;
- Dry weather flow calibration complete;
- Wet weather calibration complete.
- Planning Data Analyzed and Growth Modelling
- Preliminary existing system capacity results;
- Preliminary growth system capacity results.







Total Flow Monitors Installed : 33

Rain Gauges Installed : 1

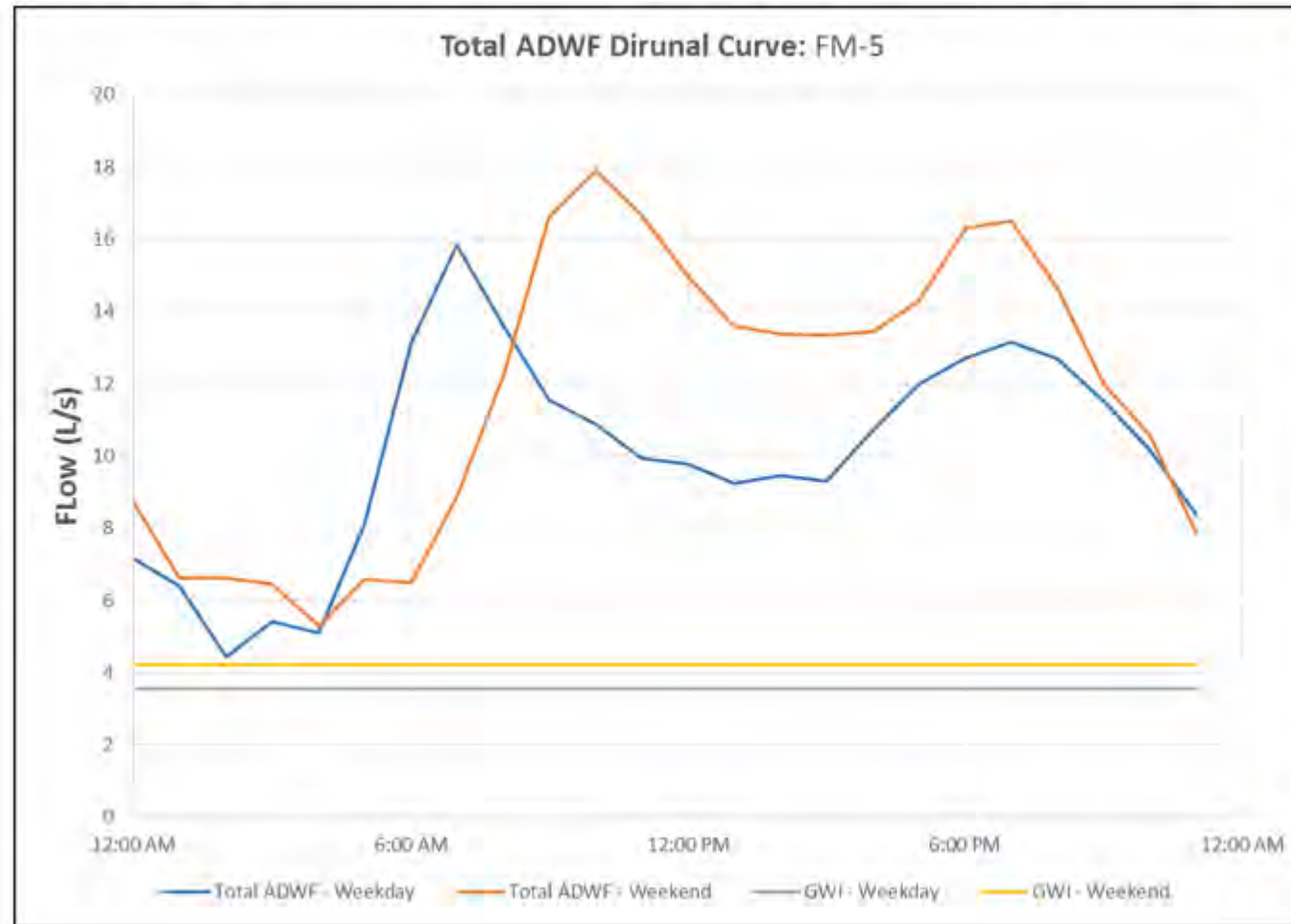
Rain Gauges used for Analysis : 3

Flow Monitors in Halifax West :27

Flow Monitors in Dartmouth: 4

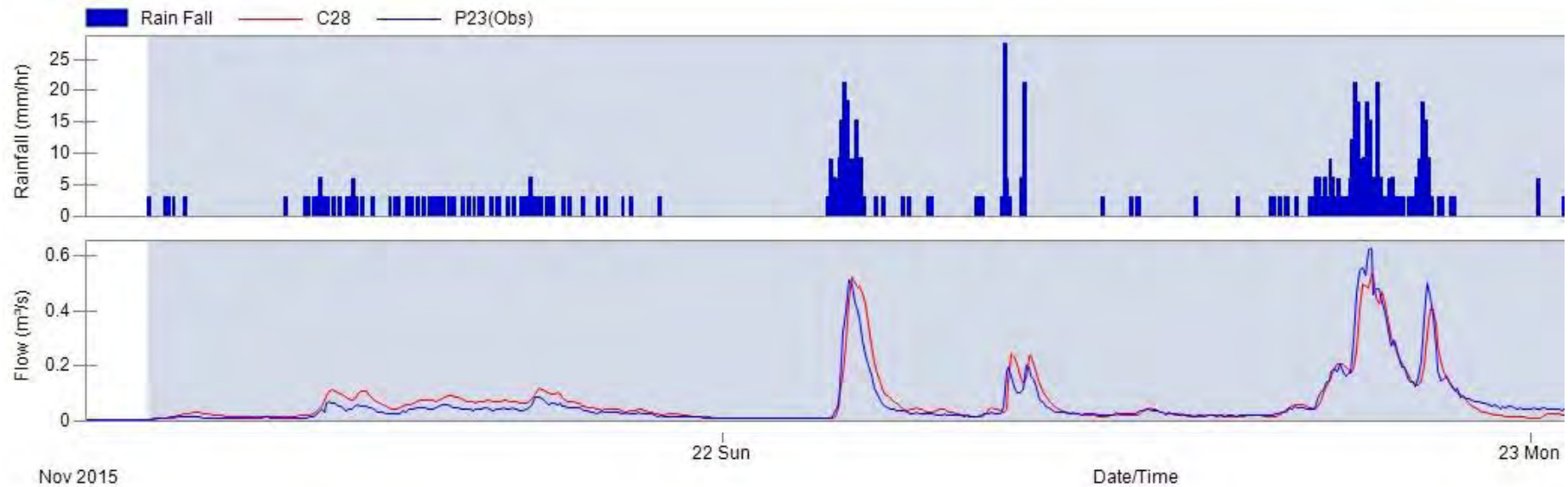
Flow Monitors in Mill Cover: 2

Dry Weather Diurnal Curve and Base Sewage Flow Hourly Factors



Weekday (factor)	Weekend (factor)
0.56	0.60
0.44	0.32
0.14	0.32
0.29	0.30
0.24	0.14
0.70	0.32
1.48	0.30
1.90	0.62
1.55	1.08
1.23	1.67
1.13	1.84
0.99	1.67
0.96	1.44
0.88	1.26
0.91	1.23
0.89	1.23
1.11	1.24
1.30	1.36
1.41	1.63
1.48	1.65
1.41	1.39
1.23	1.04
1.03	0.86
0.75	0.49

FM102-Event -3



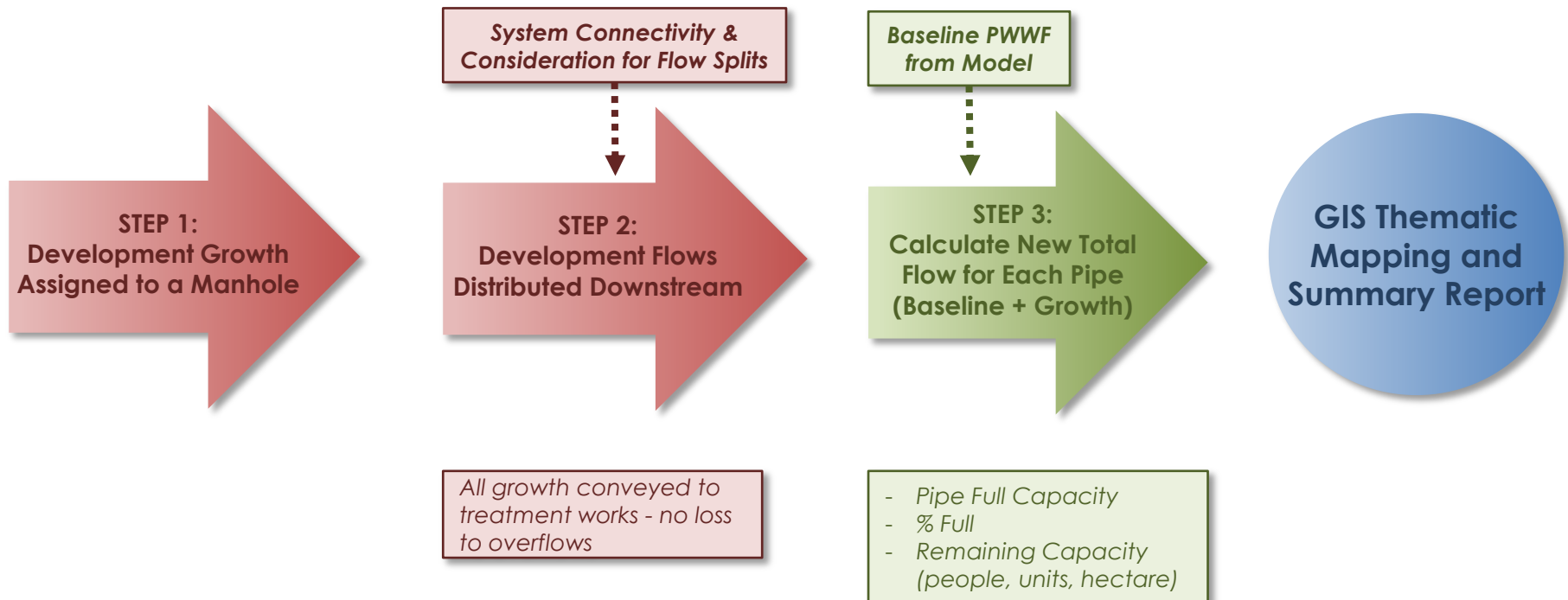
Objectives of the Development Capacity Tracking Tool

1. Track development
 - a) Proposed but not approved
 - b) Approved but not built
 - c) Built but not included in baseline flows
 - d) Included in baseline flows since last master plan
 - e) How much growth approved in comparison to planned growth
2. Identify potential capacity constraints and trigger points for capital projects
 - Used as a preliminary check (yes, no, not sure)
 - Not used to replace modelling
 - Not used to make decisions
3. 'What if' scenarios

Outputs from the Development Capacity Tracking Tool

1. How close to full capacity
2. How much more growth can be accommodated before full capacity
 - a) Intensification
 - How many more people
 - How many more units
 - b) Greenfield
 - How many more hectares (depending on development type, i.e. units per hectare and people per unit)
3. Development summary report
 - To track growth trends against Master Plan projections
 - Updatable/repeatable/comparable
 - Mapping

Capacity Assessment Process



Schedule & Next Steps

