Response to Panel Request – FTAA-2603-1181 - Mt Welcome, Pukerua Bay, Porirua

Additional Tiaki Wai Wastewater Modelling

Document

Title	FTAA-2603-1181 - Mt Welcome, Pukerua Bay, Porirua – Additional Wastewater Modelling
Location	• Petone
Authors	Zeean Brydon, Consultant Peer Reviewer, Land Development Consenting
Status	Final
Version	1.0

1. During the Joint Witness Statement Engineering Conferencing Tiaki Wai offered to undertake additional wastewater modelling to assess the impact of the proposed development at Mt Welcome, Pukerua Bay on the receiving catchment.
2. Modelling was completed by Tiaki Wai's senior modeller Manu Ward using Tiaki Wai's strategic wastewater network model, updated May 2026. Whilst the System Performance Assessment documentation is still DRAFT (has not been released) the model is considered fit for purpose.
3. 6 scenarios have been modelled, being:

	MWA - Baseline	MWB – Mt Welcome
Muri Stage 1	82 Lots	82 Lots
Plimmerton Farm Stage 1	880 Lots	880 Lots
Mt Welcome	0 Lots	200 Lots

	MWC - Baseline	MWD – Mt Welcome
Muri Stage 1	82 Lots	82 Lots
Plimmerton Farm Stage 1	220 Lots	220 Lots
Mt Welcome	0 Lots	200 Lots

	MWE - Baseline	MWF – Mt Welcome
Muri Stage 1	0 Lots	0 Lots
Plimmerton Farm Stage 1	220 Lots	220 Lots
Mt Welcome	0 Lots	200 Lots

4. While consent has been granted for 144 lots within Muri Stage 1, only 82 lots can be released concurrently with the delivery of the first 200 Lots at Mt Welcome as both developments rely on the same water infrastructure trigger.

5. Model runs A to D allow the 82 Muri Road Stage 1 lots to discharge by gravity to the network. In reality these anticipated to connect through PS30. The model is not currently set up to include addition connections upstream of PS30 and whilst the application states no impact downstream of PS30 due to no change in pump discharge rate but does not discuss the impact on pump frequency / duration.

6. Given time constraints a further model run was undertaken simply by removing the 82 Muri Road Stage 1 Lots. This approach assumes the increase in pump duration will not impact on the receiving catchment overflows – this assumption requires testing.

7. Consent has been granted for 880 Lots within Plimmerton Farms Stage 1, and these connections are therefore accepted and included within the model. It is noted however that the growth scenarios within the model suggest 220 of these connections will be realized in the short term (2027), with the remaining 600 delivered by 2036. The 'short term / current' scenario has been tested with only 220 connections from Plimmerton Farms.

8. The model allows the 220 Plimmerton Farm to be connected via gravity without mitigation (as agreed for Stage 1).

9. Three critical locations are identified being:

    - The Engineered Overflow Point (EOP) upstream of PS13,
    - The Engineered Overflow Point (EOP) upstream of PS07,
    - The Pukerua Bay Trunk Main at S130219.

10. The results show for MWA to MWD (including 82 Lots within Muri Road Stage 1) increases in wastewater spill volume from both Engineered Overflows in all modelled events (6-

month, 1 year and 2-year ARI event), and an increase in wastewater spill from the trunk main in the 2-year ARI event.

11. The results for MWE and MWF (removing Muri Road Stage 1) show:

- An increased spill of 82 m^3 upstream of PS07 in the 6-month ARI event, increasing to 111 m^3 in the 2-year event.
- Increased spills of between 113 and 151 m^3 upstream of PS13 for the 1 year and 2-year ARI events,
- An increased spills of between 13 m^3 from the trunk main in the 2-year ARI event.

12. All model runs show that connection of 200 Lots within the initial stages of the proposed Mt Welcome development will result in additional wastewater spill to the receiving environment.

13. The model summary and results are included in Attachment A.

A. Tiaki Wai Wastewater Modelling Memo

Mt Welcome impact modelling

Database: SP.2024.POR.S
Network: Porirua 2026 OP MED

Manu Ward, 4 Sept 2026

Model assumptions

- Porirua Strategic Model “MED” (2036 projection) adopted
- Muri Rd Stage 1 included at either 0 or 82 lots (2.32 PE/lot)
- Plimmerton Farms Stage 1 included at either 880 lots or 220 lots (2.10 PE/lot)
- Mt Welcome Farms impact tested for 200 lots (2.10 PE/lot)
- Greenfield wet-weather flow parameters adopted as per M2L/LNG scenarios (runoff area 1-4 at 0.2%,0.2%,0.2%,20% respectively)

Design event simulation spill result summary

	Scenario ->	MWA	MWB	MWB-MWA (Difference)	MWC	MWD	MWD-MWC (Difference)	MWE	MWF	MWE-MWF (Difference)
Development		Assumed number of lots								
	Muri Rd Stage 1	82	82		82	82		0	0	
	Plimmerton Farms Stage 1	880	880		220	220		220	220	
	Mount Welcome	0	200		0	200		0	200	
Selected event	Spill Location	Modelled spill volume (m^3)								
~2yr ARI (13 May 2015)	PS13 Plimmerton Roundabout EOP	681	922	*242*	392	553	*161*	317	467	*151*
	PS07 Paremata Bridge EOP	2,857	2,878	*21*	2,645	2,734	*89*	2,587	2,698	*111*
	S130219 (Pukerua Bay Trunk Main MH)	7	37	*30*	7	37	*30*	3	16	*13*
~1yr ARI (13 Oct 2024)	PS13 Plimmerton Roundabout EOP	284	426	*142*	127	248	*122*	78	191	*113*
	PS07 Paremata Bridge EOP	1,612	1,654	*43*	1,460	1,512	*51*	1,431	1,487	*57*
	S130219 (Pukerua Bay Trunk Main MH)	0	0	*0*	0	0	*0*	0	0	*0*
~6m ARI (9 Dec 2014)	PS13 Plimmerton Roundabout EOP	72	149	*77*	0	26	*26*	0	0	*0*
	PS07 Paremata Bridge EOP	889	907	*18*	743	800	*57*	694	776	*82*
	S130219 (Pukerua Bay Trunk Main MH)	0	0	*0*	0	0	*0*	0	0	*0*

- The following figures summarise results for the 6x scenarios under each of the 3x selected events
  - Plan views with spill locations listed above annotated
  - Long-sections of Pukerua Bay trunk main to PS13

Subcatchment and Pump Station model flow summary tables

Development	Lots	ADWF (L/s)	PDWF (L/s)	PWWF (L/s)			Regional Standard Formula PWWF (L/s) (3.5 PE/lot, 0.1 Ha/lot, 0.8km/Ha, unknown groundwater table)
				~6m ARI (9 Dec 2014)	~1yr ARI (13 Oct 2024)	~2yr ARI (13 May 2015)	
21 Muri Rd Stage 1	82	0.5	1.0	3.4	3.0	7.5	8.4
Mount Welcome	200	1.1	2.2	7.0	6.6	17.0	19.2
Plimmerton Farms Stage 1	220	1.2	2.5	8.8	7.7	20.0	21.0
	880	4.9	9.8	35.1	30.9	79.2	77.2

Pump Station	Total capacity (L/s)	Model Average Dry Weather Flow (L/s)						Capacity / ADWF Ratio					
		MWA	MWB	MWC	MWD	MWE	MWF	MWA	MWB	MWC	MWD	MWE	MWF
PS13	68	13.3	14.4	9.7	10.8	9.2	10.3	5.1	4.7	7.0	6.3	7.4	6.6
PS07	120	23.7	24.8	20.1	21.2	19.6	20.7	5.1	4.8	6.0	5.7	6.1	5.8

MWA 2yr

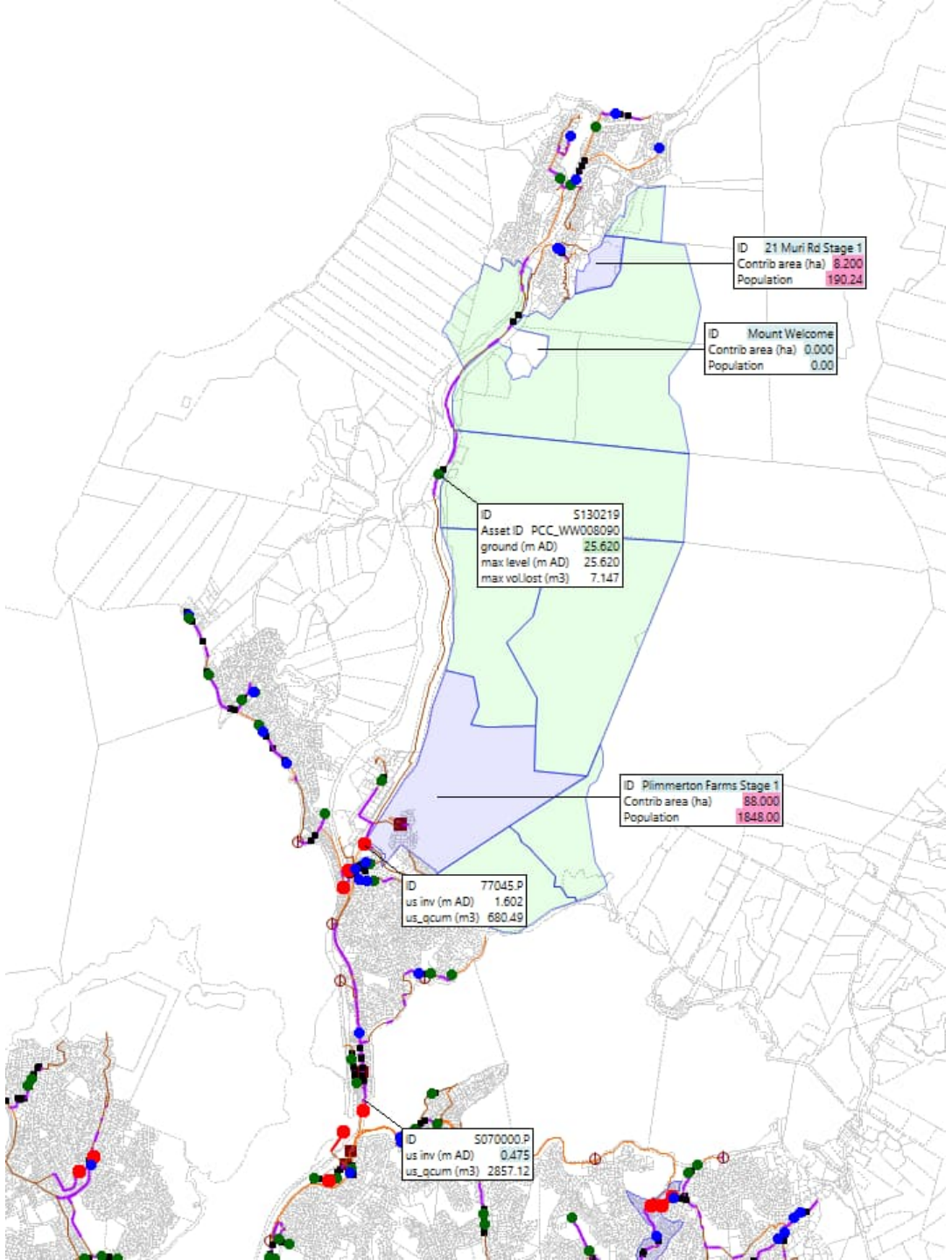
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWB 2yr

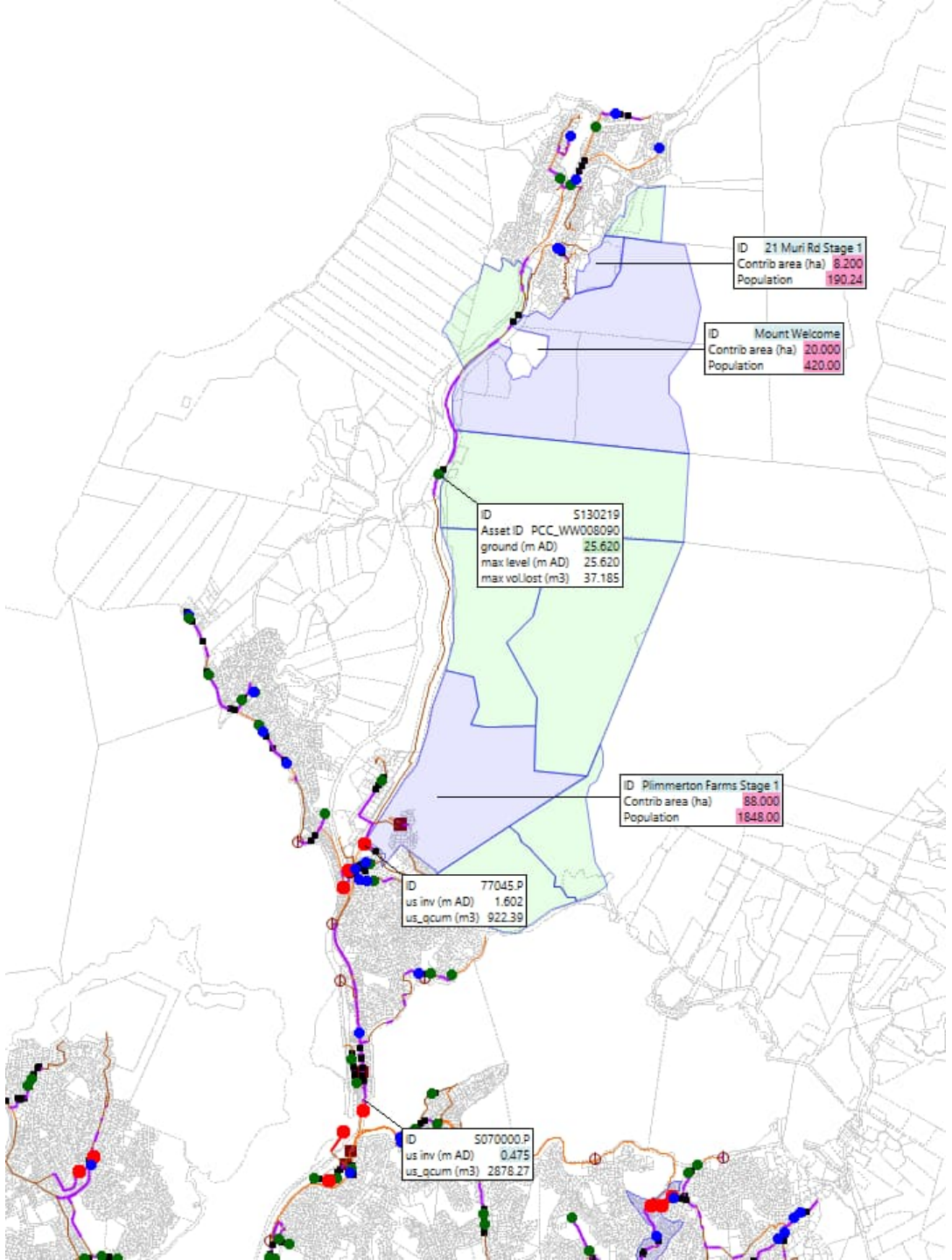
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWC 2yr

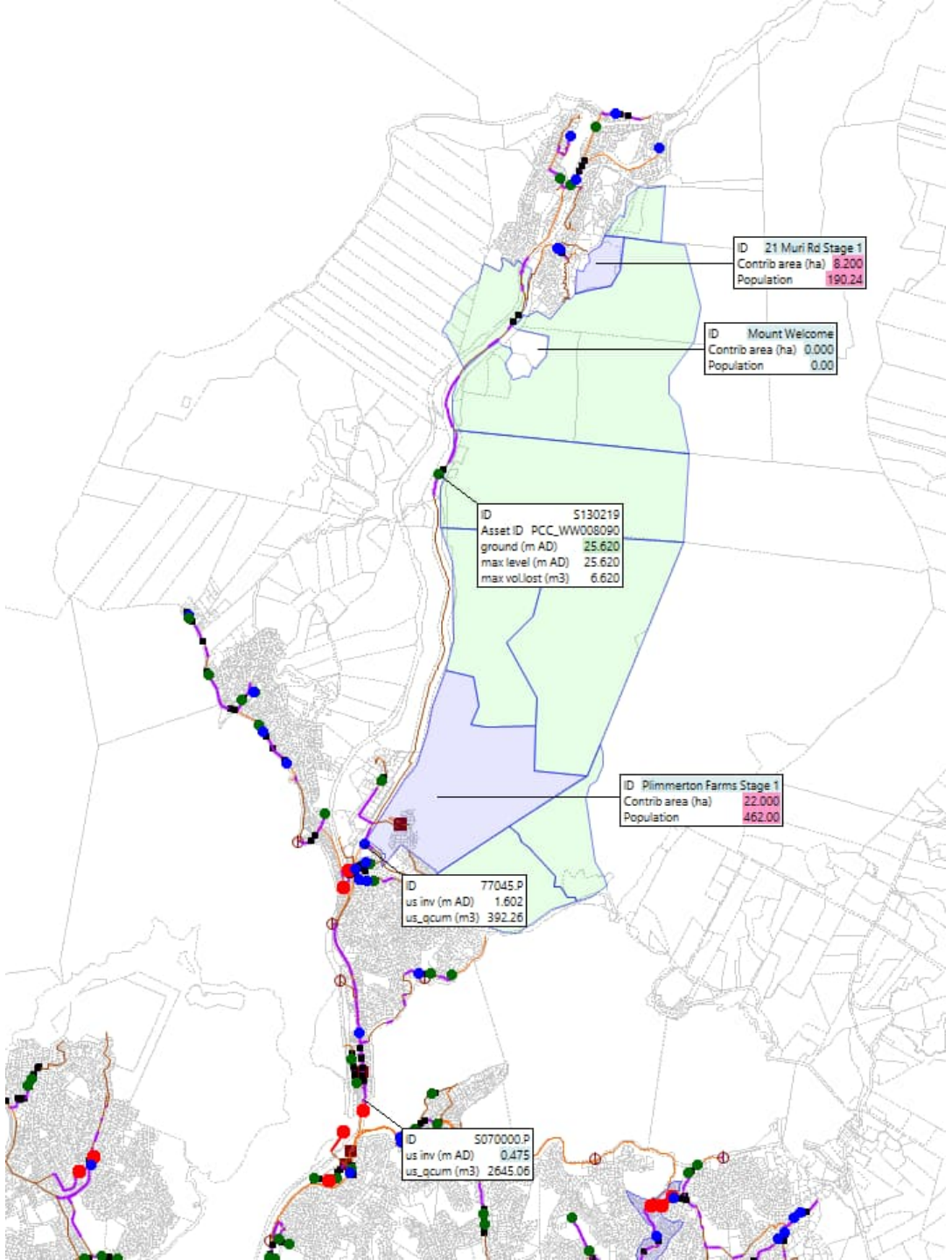
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWD 2yr

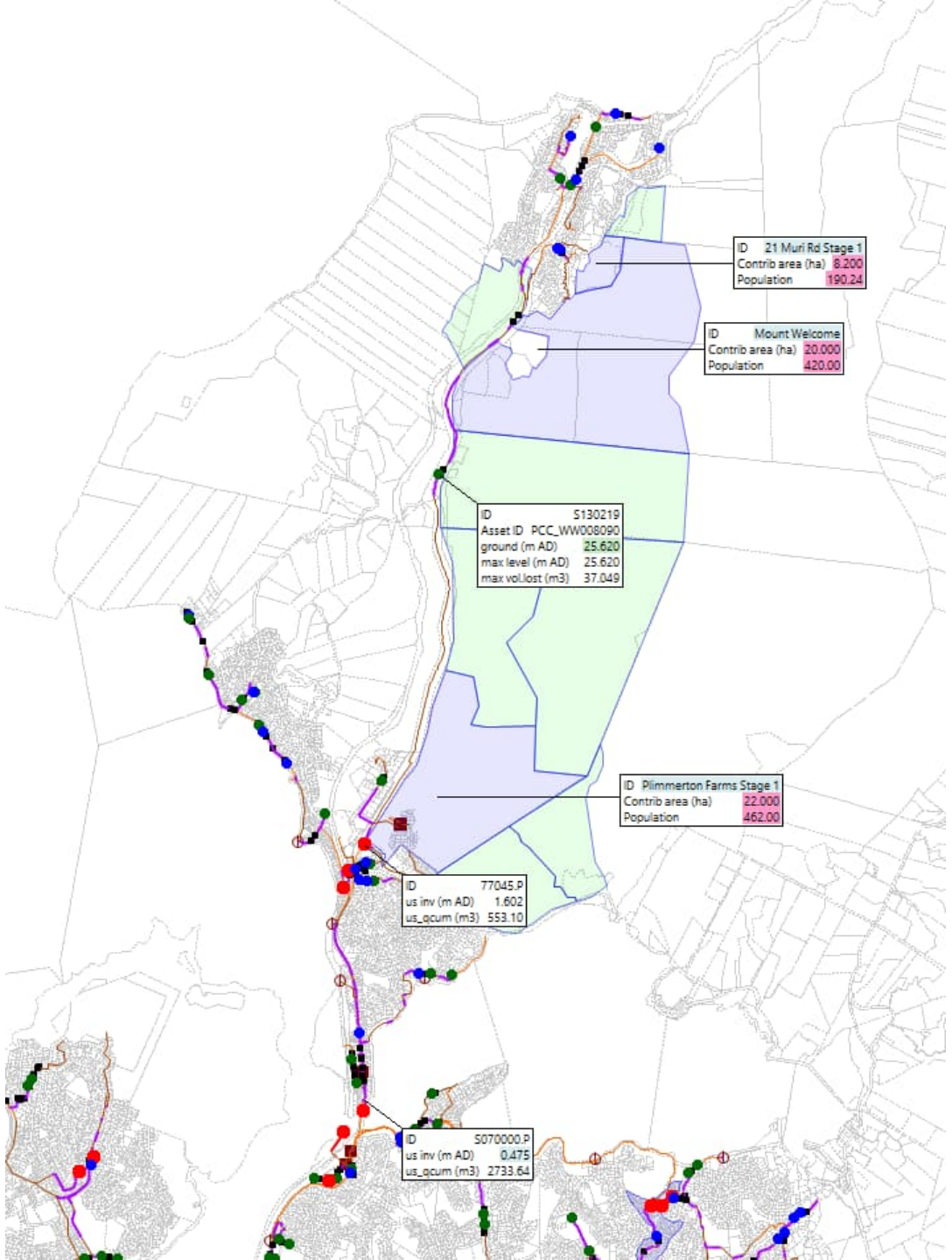
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWE 2yr

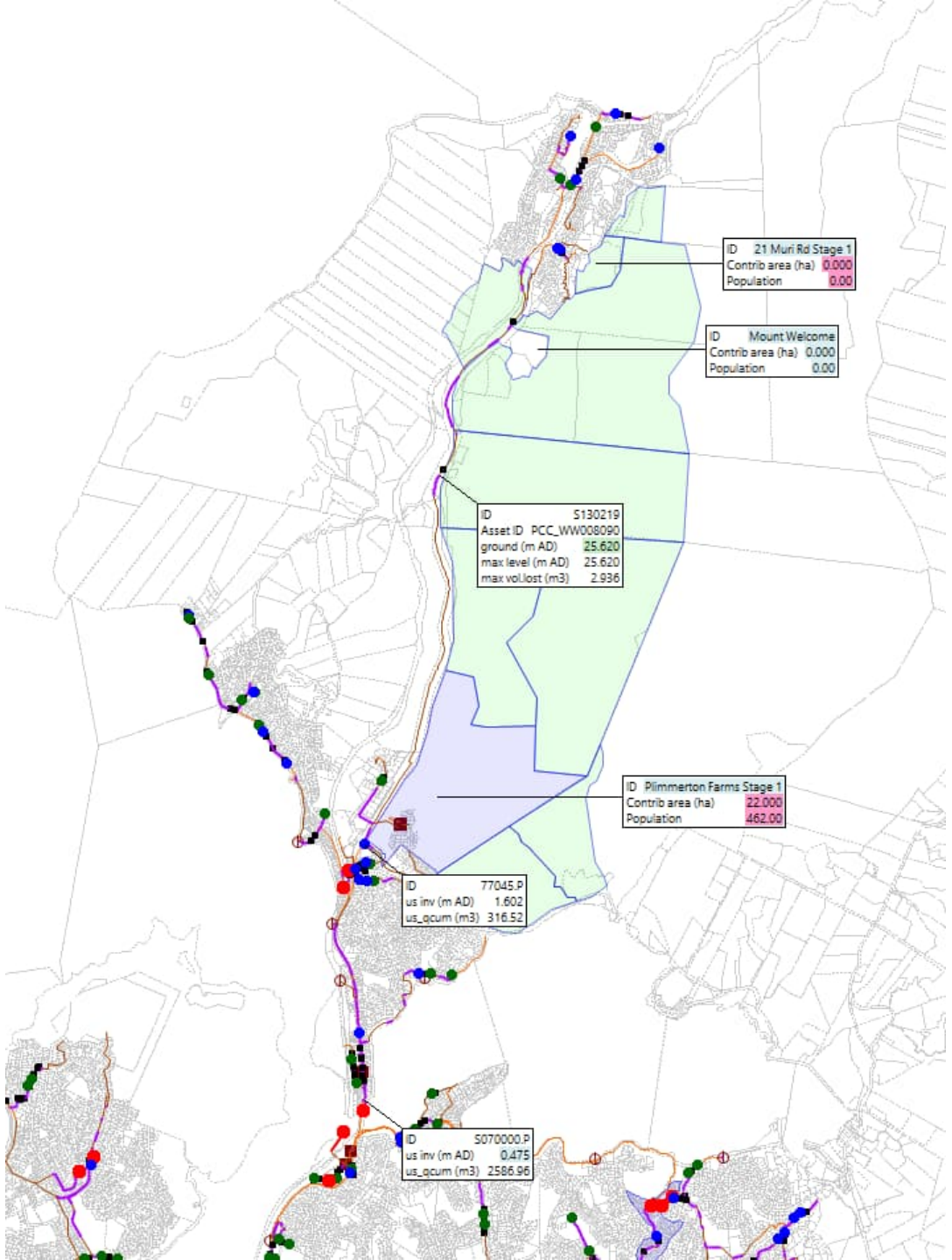
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWF 2yr

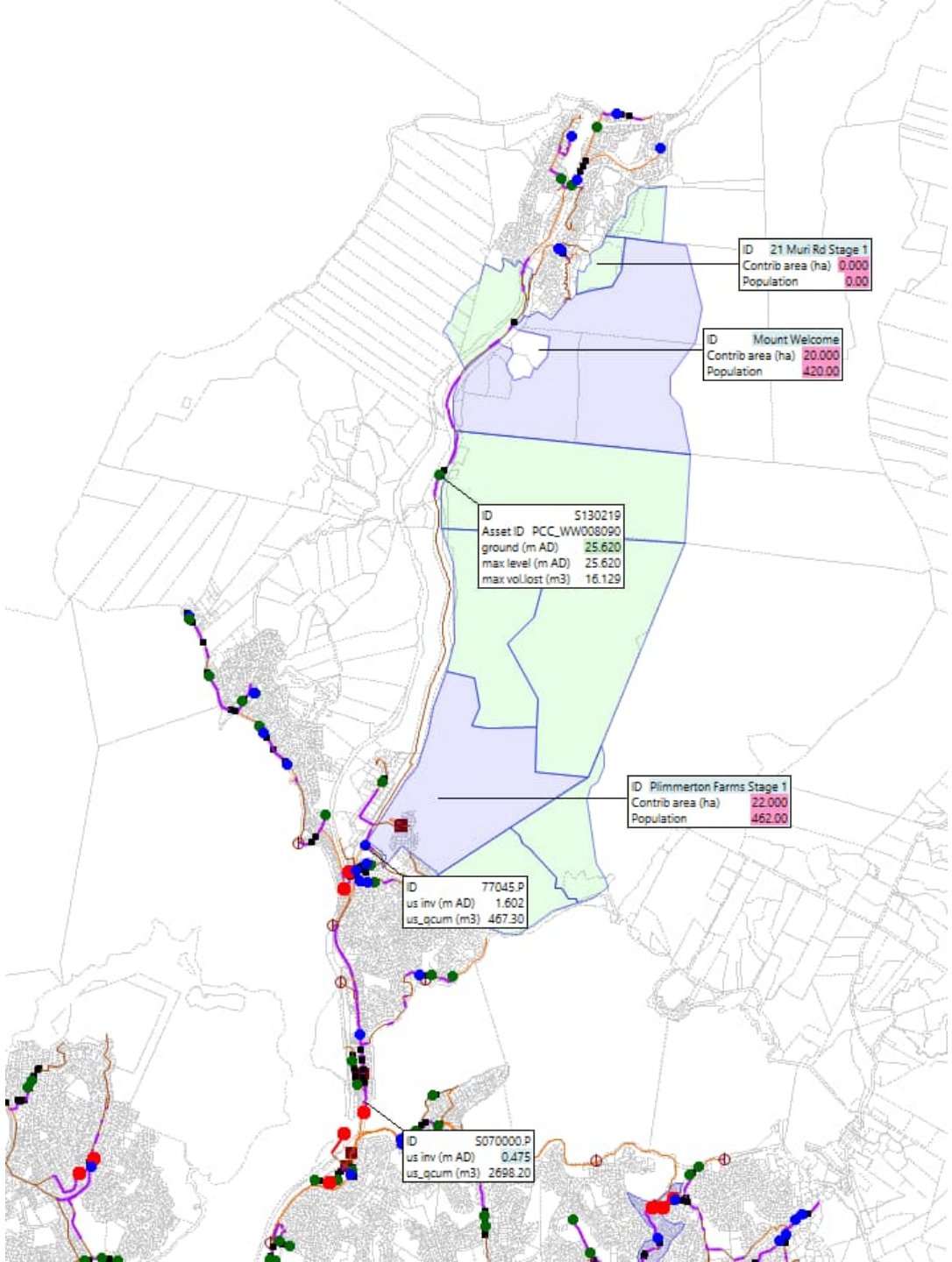
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWA 1yr

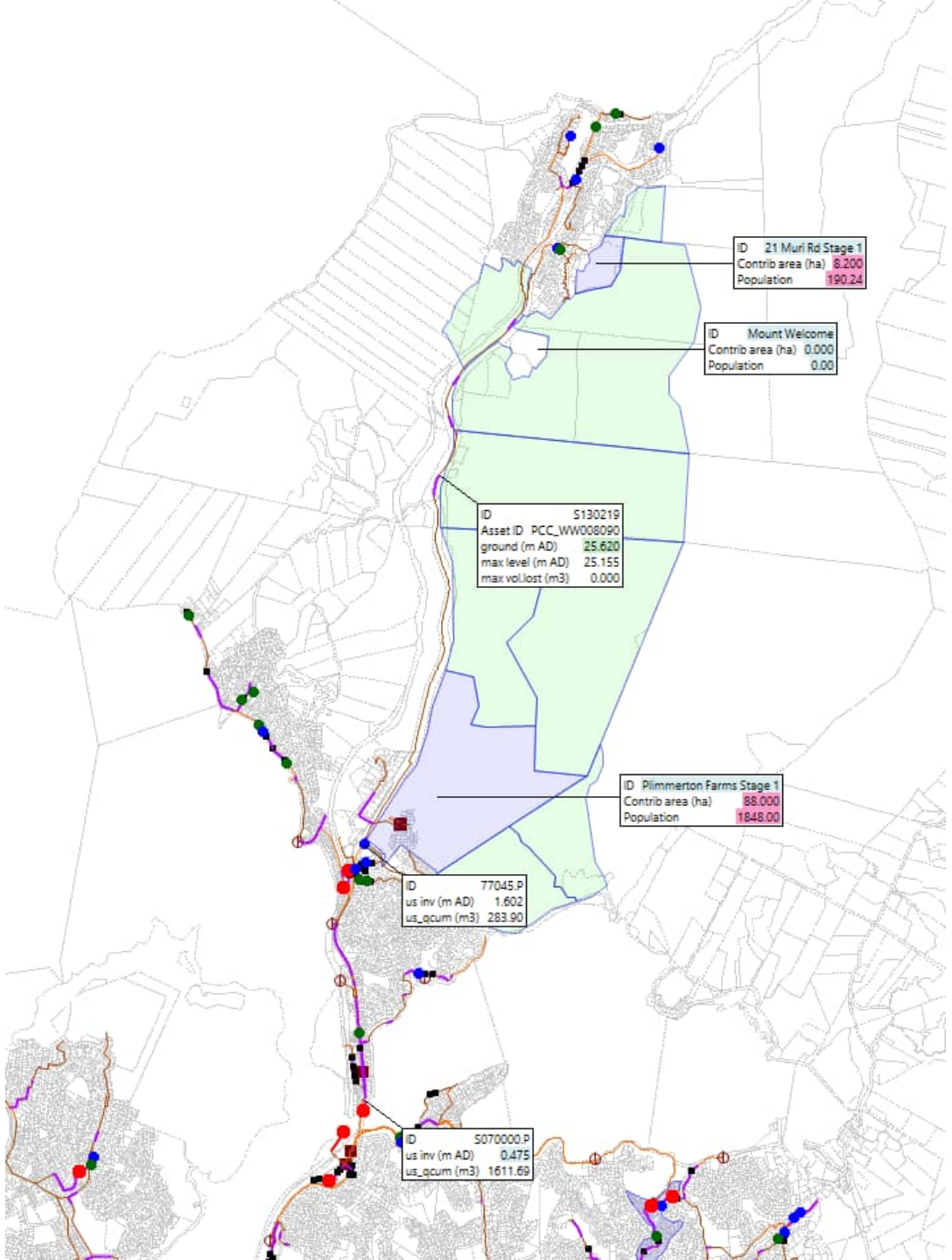
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWB 1yr

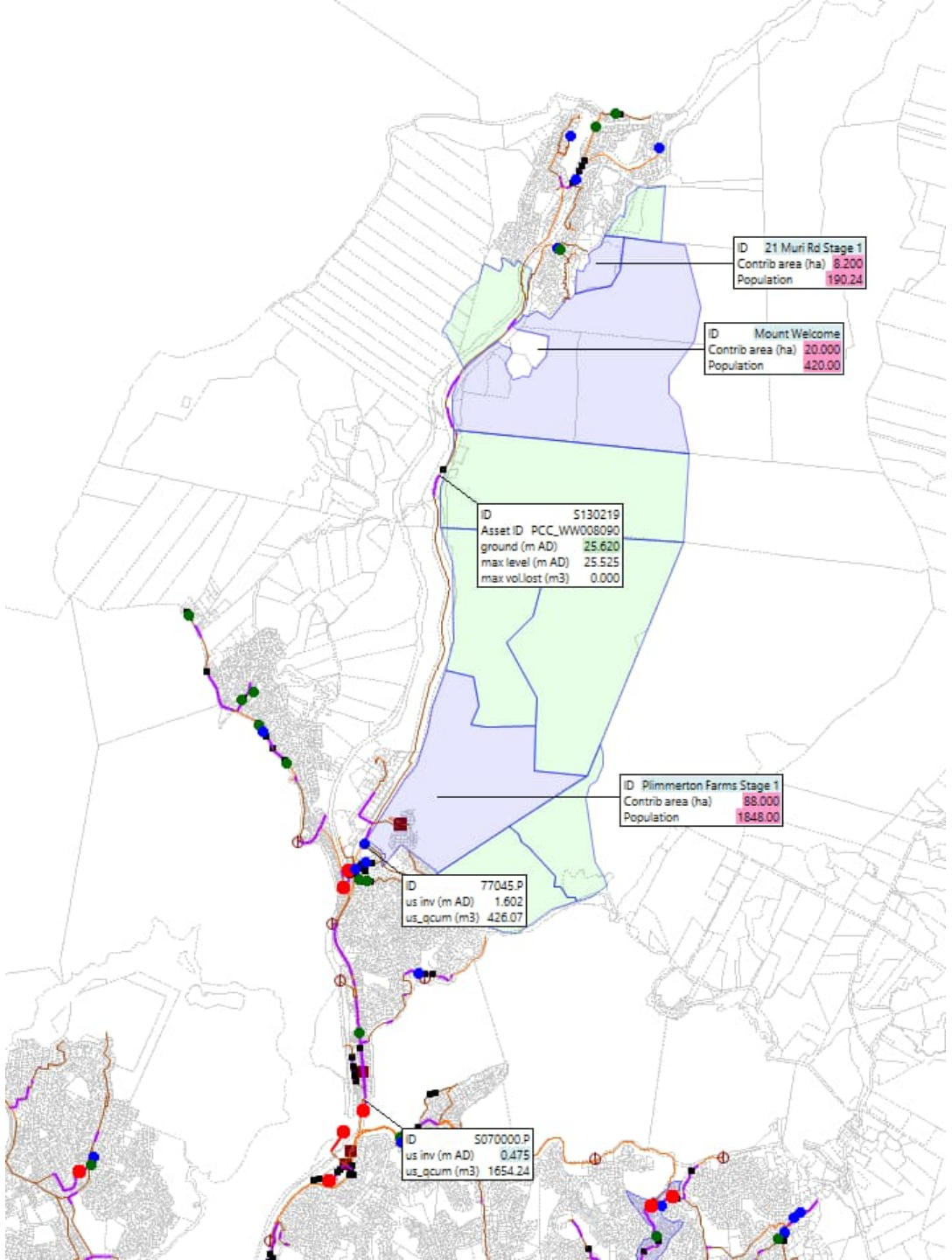
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWC 1yr

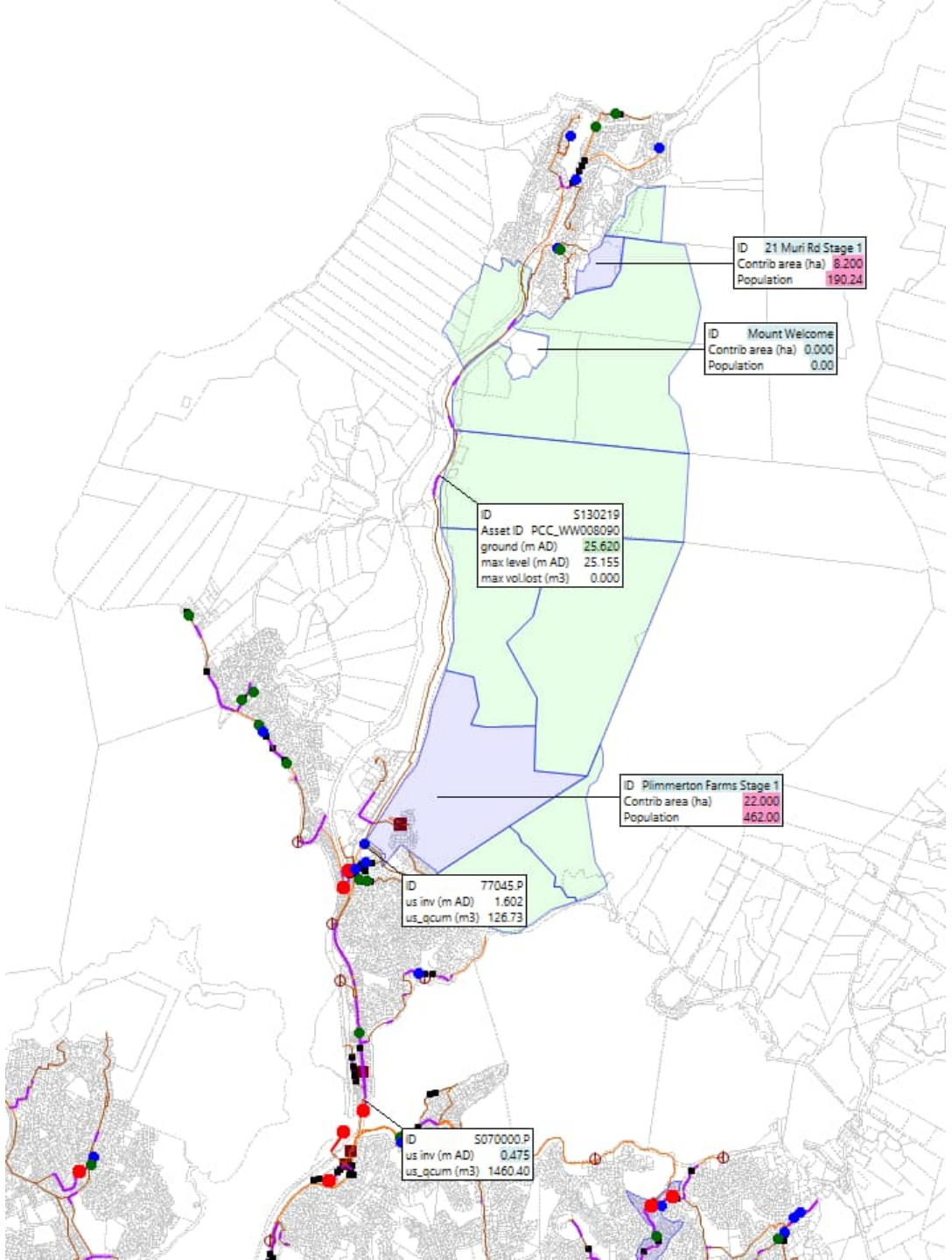
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWD 1yr

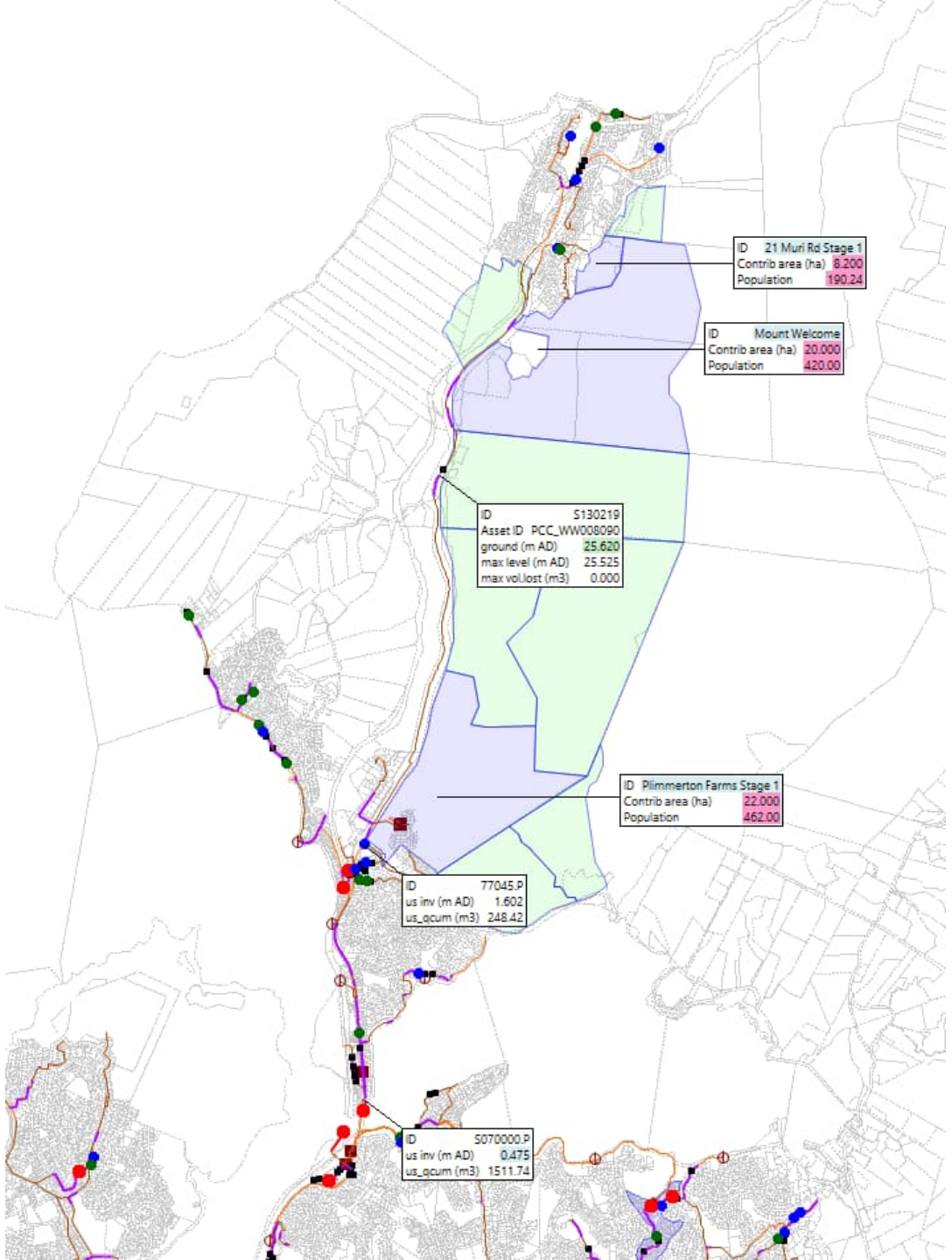
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWE 1yr

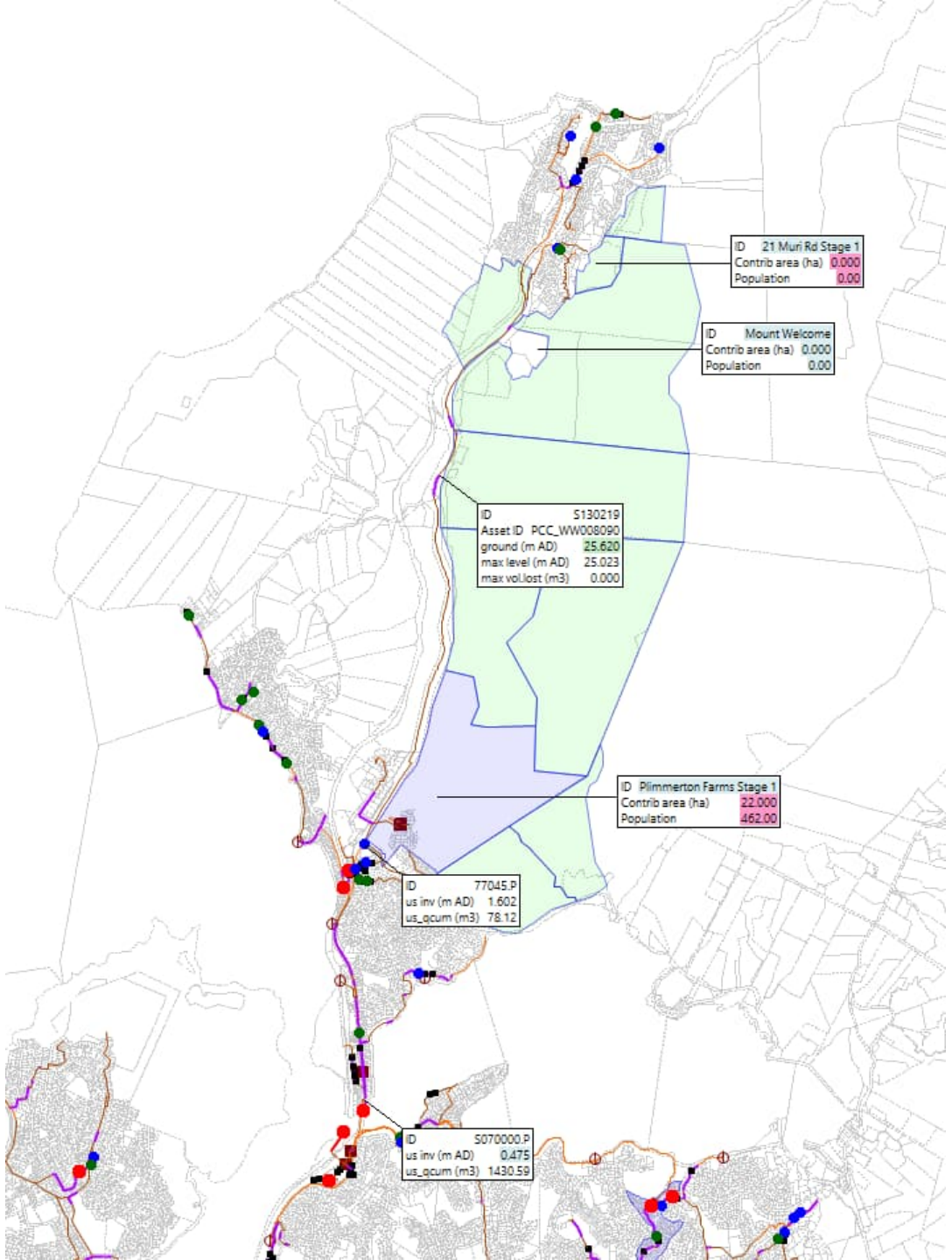
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWF 1yr

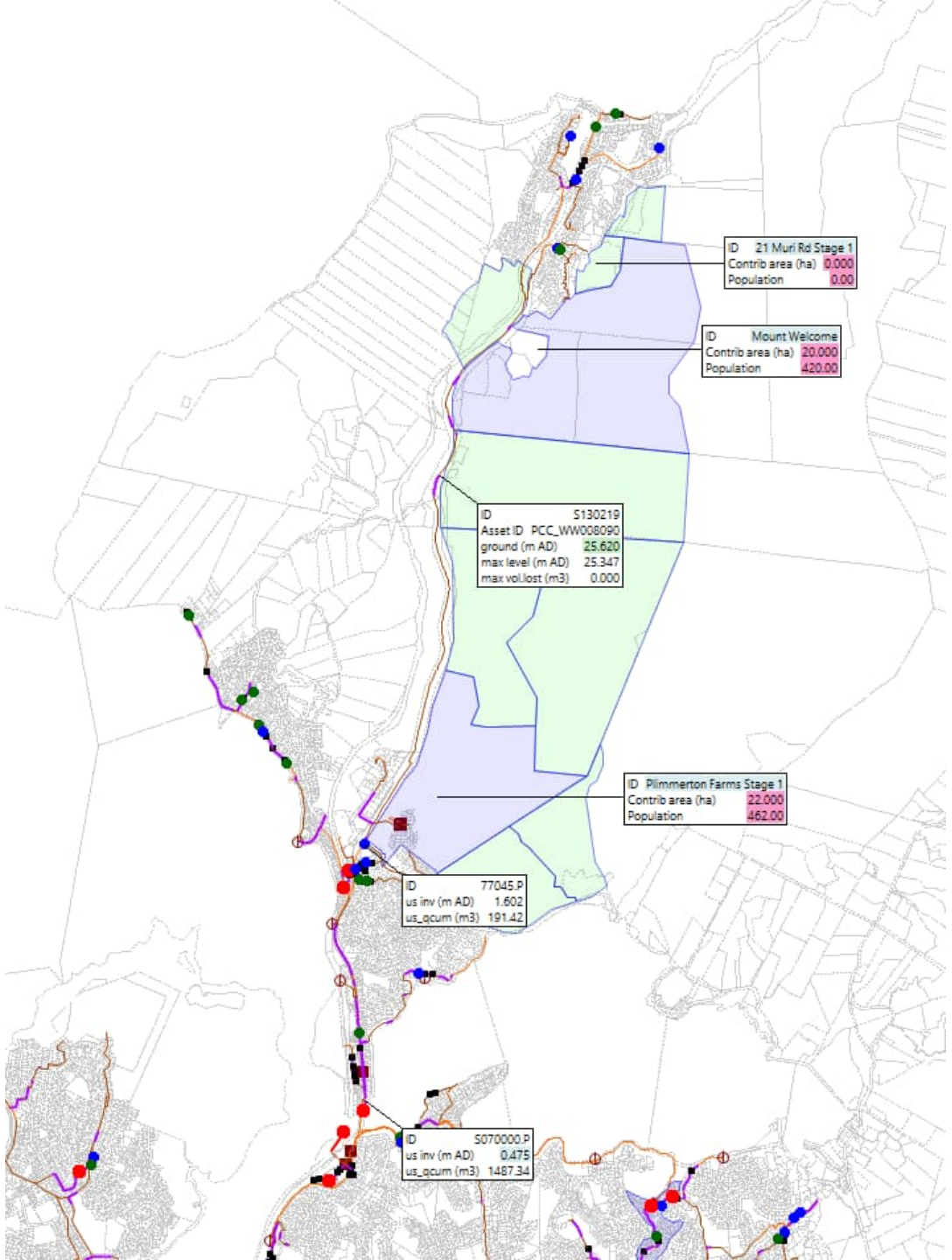
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWA 6m

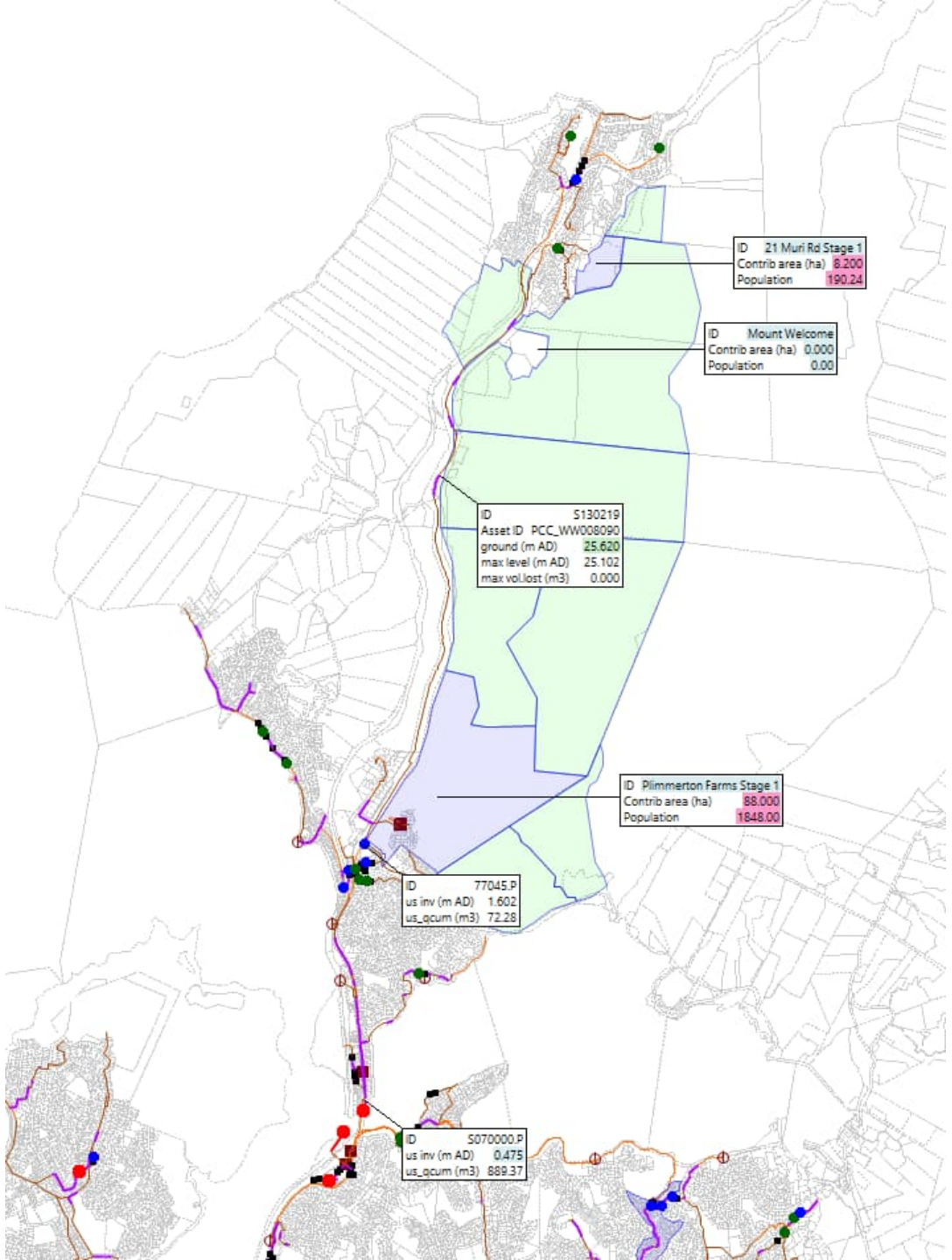
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWB 6m

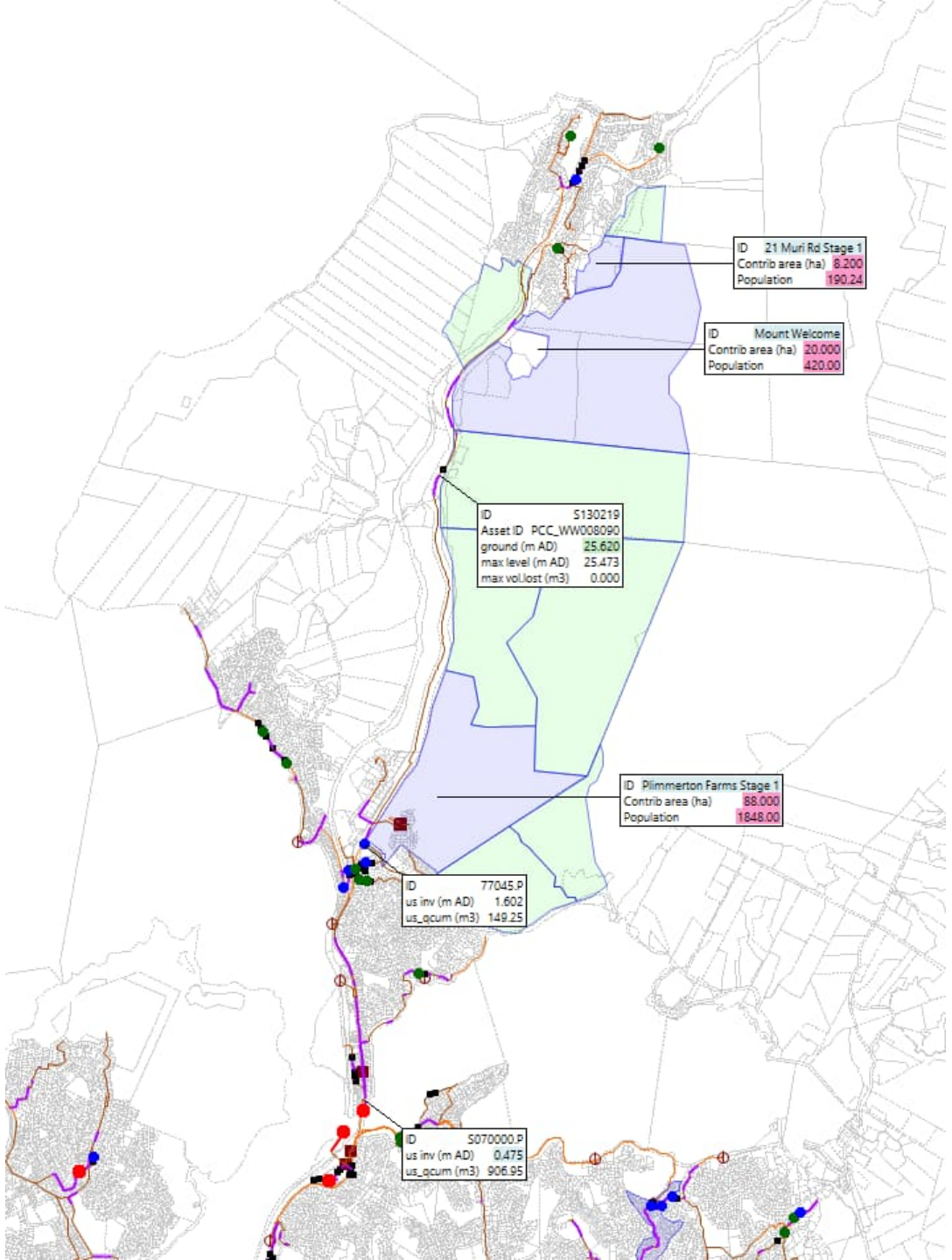
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWC 6m

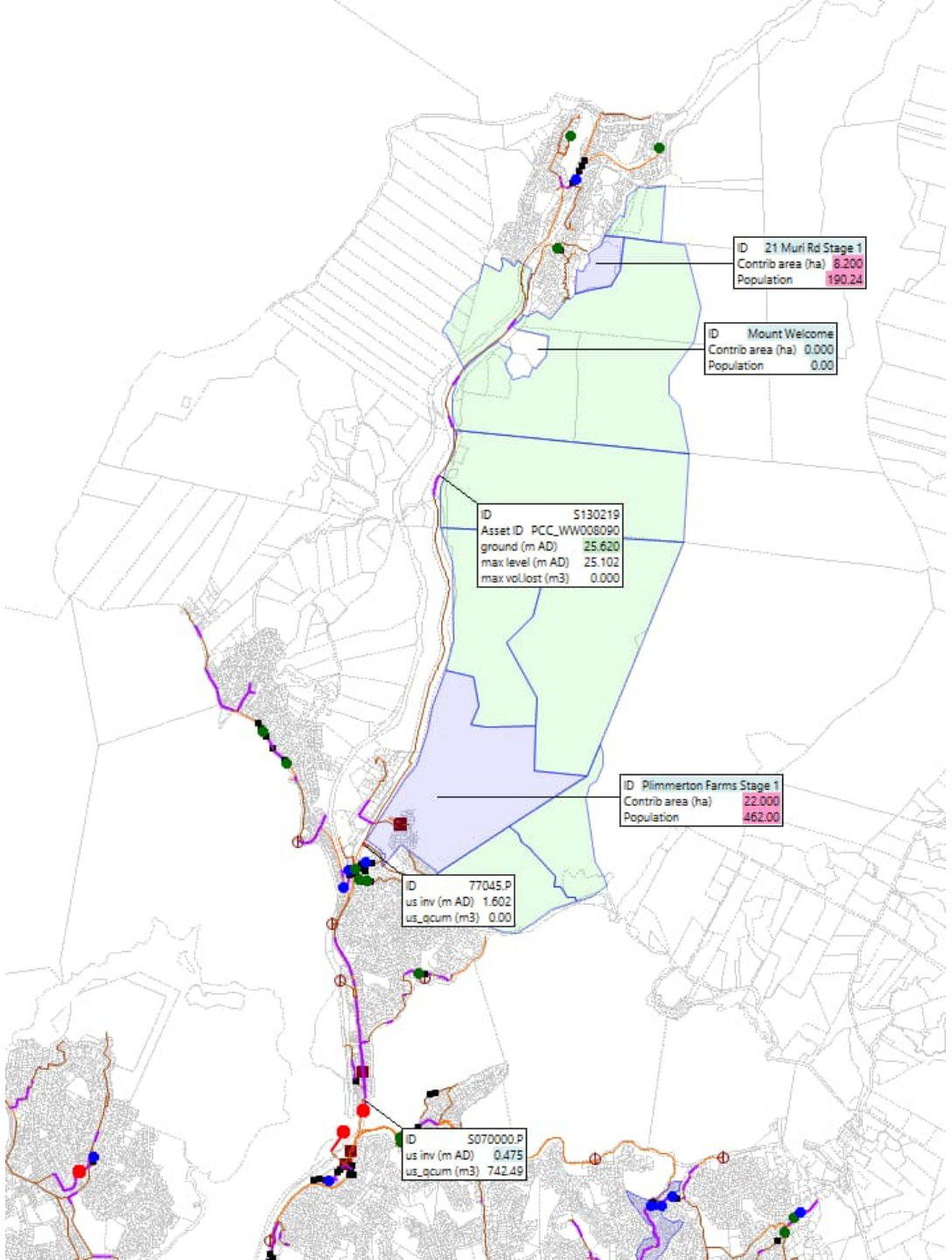
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m³)

- >= 5
- >= 50
- >= 500
- >= 5000



MWD 6m

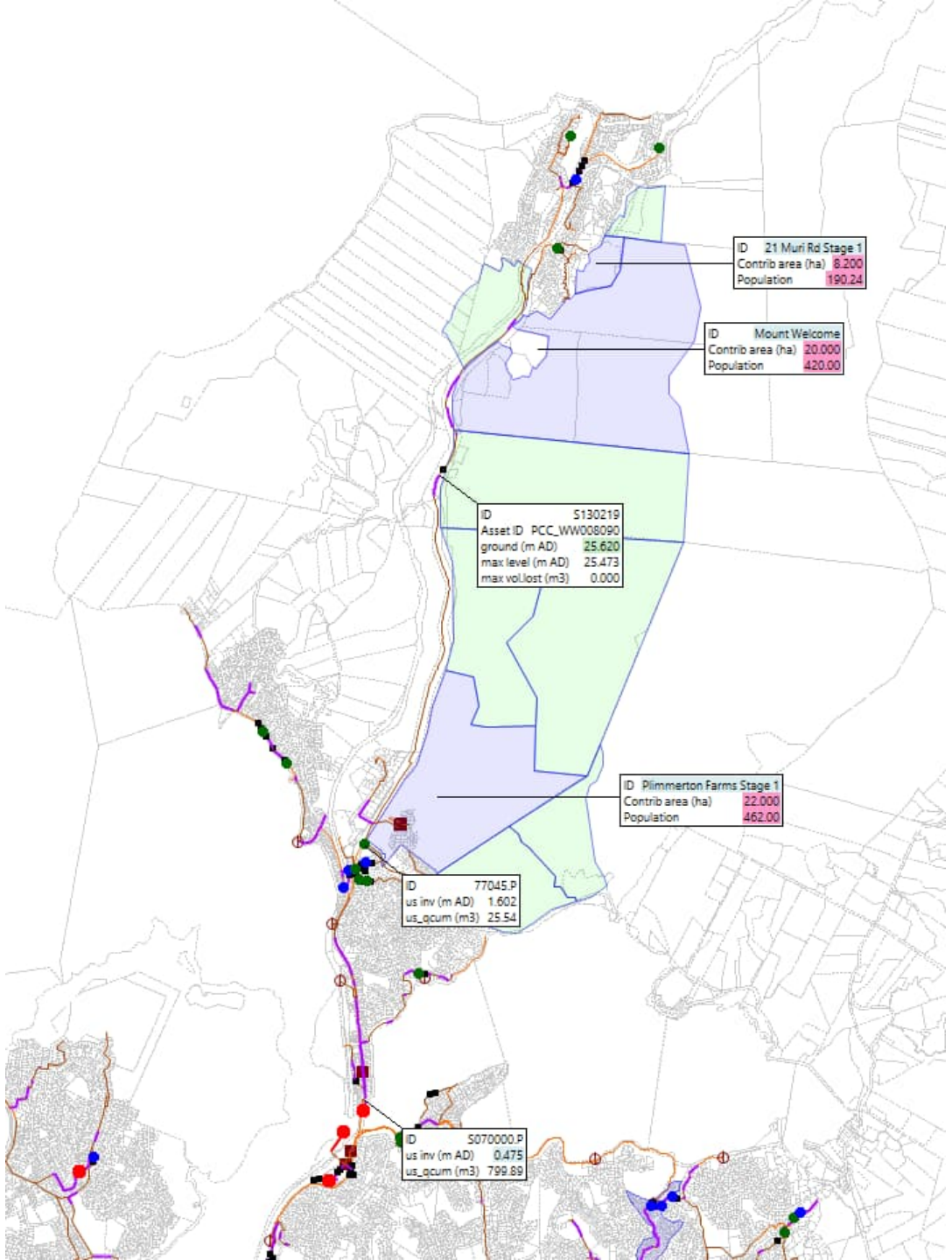
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWE 6m

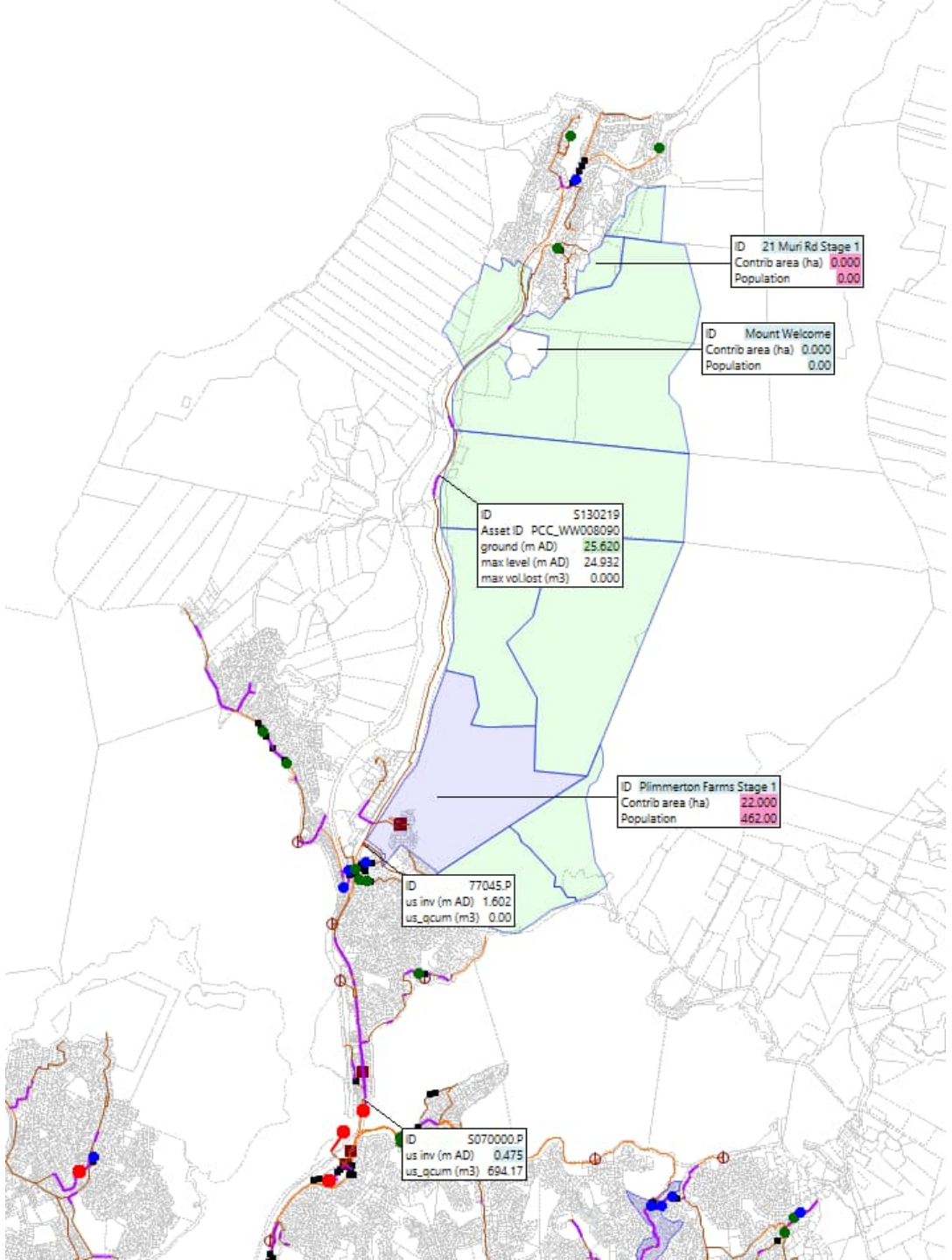
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



MWF 6m

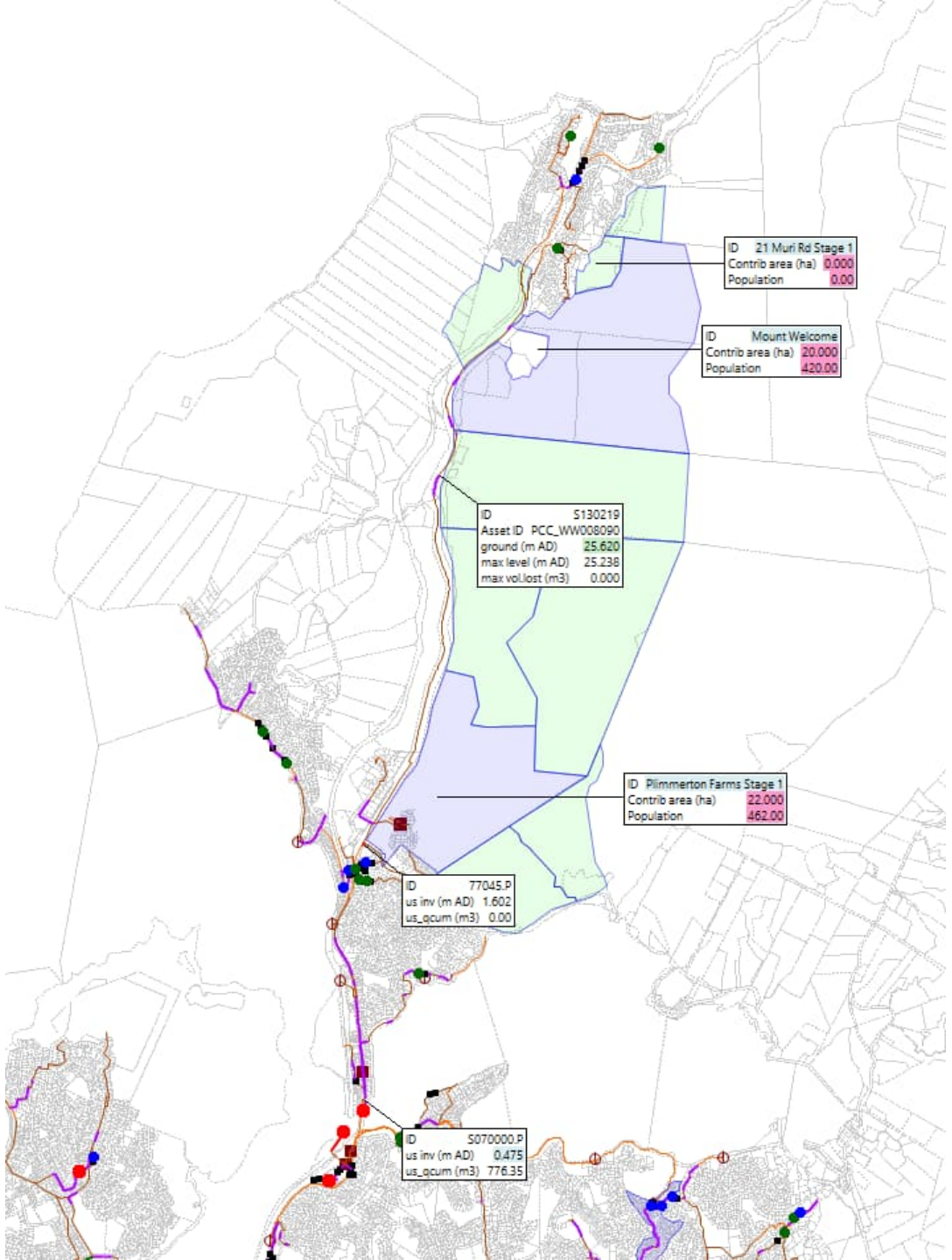
Spare Capacity
(80% Pipe Full Capacity
minus Peak WWF, L/s)

- < -5
- >= -5
- >= 1
- >= 5
- >= 10

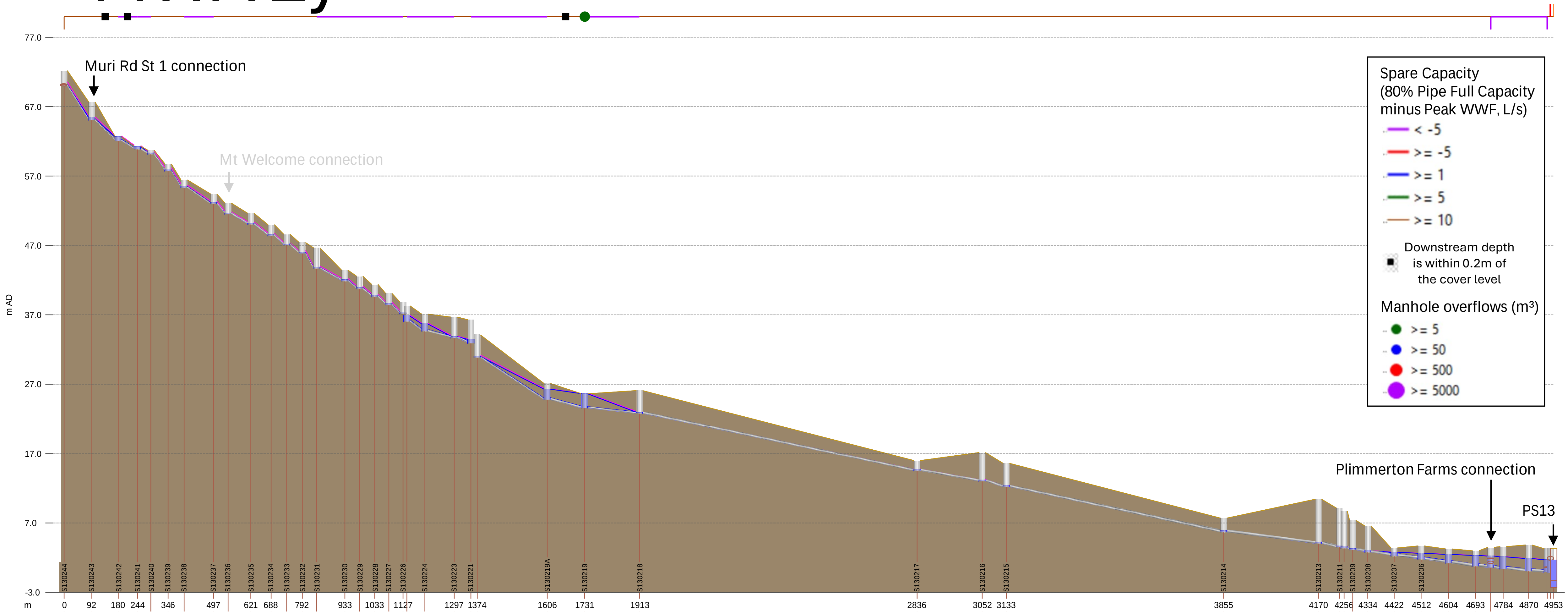
Downstream depth
is within 0.2m of
the cover level

Manhole overflows (m^3)

- >= 5
- >= 50
- >= 500
- >= 5000



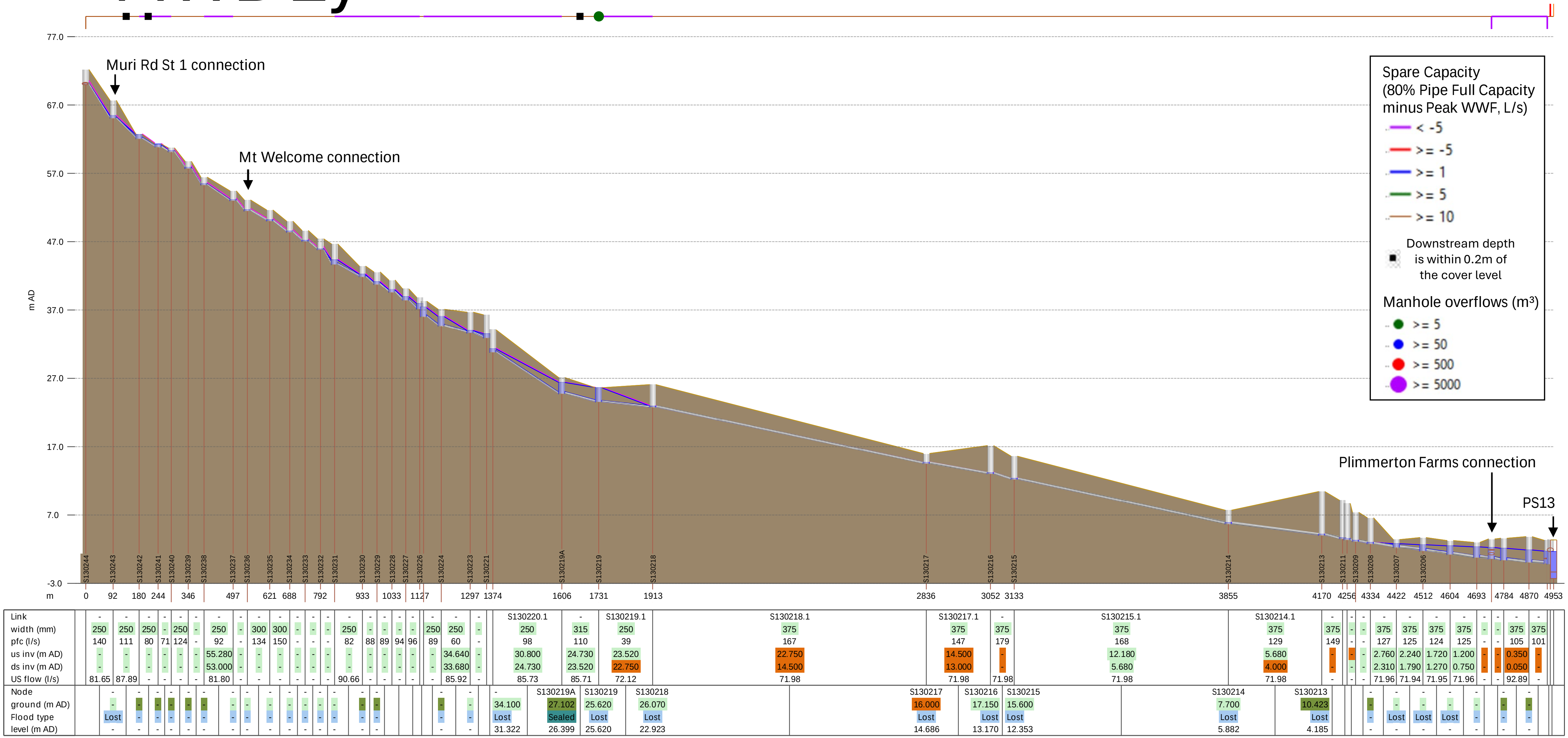
MWA 2y



Link	width (mm)	pfc (l/s)	us inv (m AD)	ds inv (m AD)	US flow (l/s)
-	250	140	-	-	81.65
-	250	111	-	-	87.89
-	250	80	-	-	-
-	-	71	-	-	-
-	250	124	-	-	-
-	-	-	-	-	-
-	250	92	55.280	53.000	81.80
-	-	-	-	-	-
-	300	134	-	-	-
-	300	150	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	250	82	-	-	81.79
-	-	88	-	-	-
-	-	89	-	-	-
-	-	94	-	-	-
-	-	96	-	-	-
-	250	89	-	-	-
-	250	60	34.640	33.680	80.26
-	-	-	-	-	-
S130220.1	250	98	30.800	24.730	80.10
-	315	110	24.730	23.520	79.38
S130219.1	250	39	23.520	22.750	72.11
S130218.1	375	167	22.750	14.500	71.90
S130217.1	375	147	14.500	13.000	71.90
-	375	179	-	-	71.90
S130215.1	375	168	12.180	5.680	71.90
S130214.1	375	129	5.680	4.000	71.90
-	375	149	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	375	127	2.760	2.310	71.89
-	375	125	2.240	1.790	71.65
-	375	124	1.720	1.270	71.64
-	375	125	1.200	0.750	71.64
-	-	-	-	-	-
-	-	-	-	-	-
-	375	105	0.350	0.050	92.19
-	375	101	-	-	-

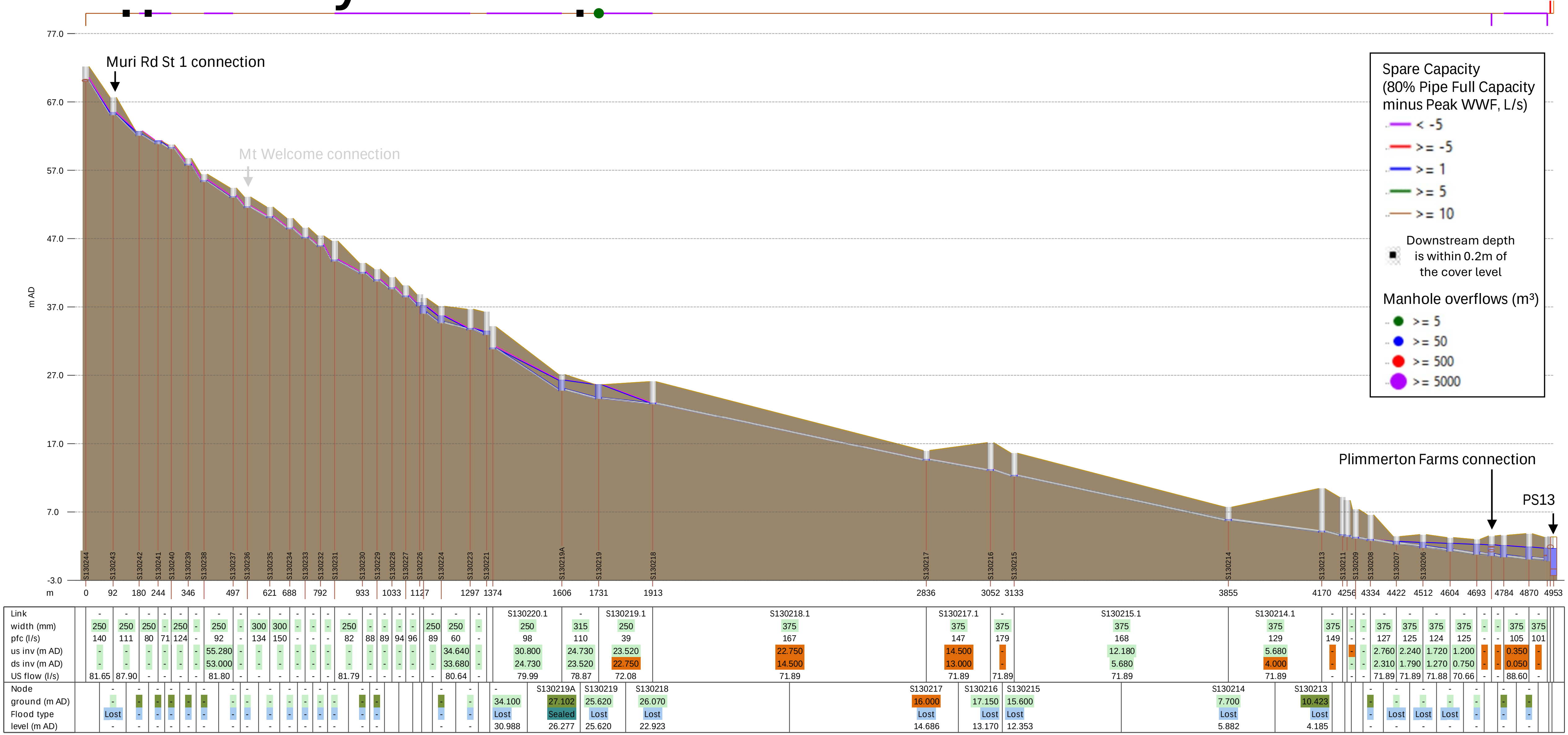
Node	ground (m AD)	Flood type	level (m AD)
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	34.100	Lost	30.988
S130219A	27.102	Sealed	26.286
S130219	25.620	Lost	25.620
S130218	26.070	Lost	22.923
S130217	16.000	Lost	14.686
S130216	17.150	Lost	13.170
S130215	15.600	Lost	12.353
S130214	7.700	Lost	5.882
S130213	10.423	Lost	4.185
-	-	-	-
-	-	Lost	-
-	-	Lost	-
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-

MWB 2y

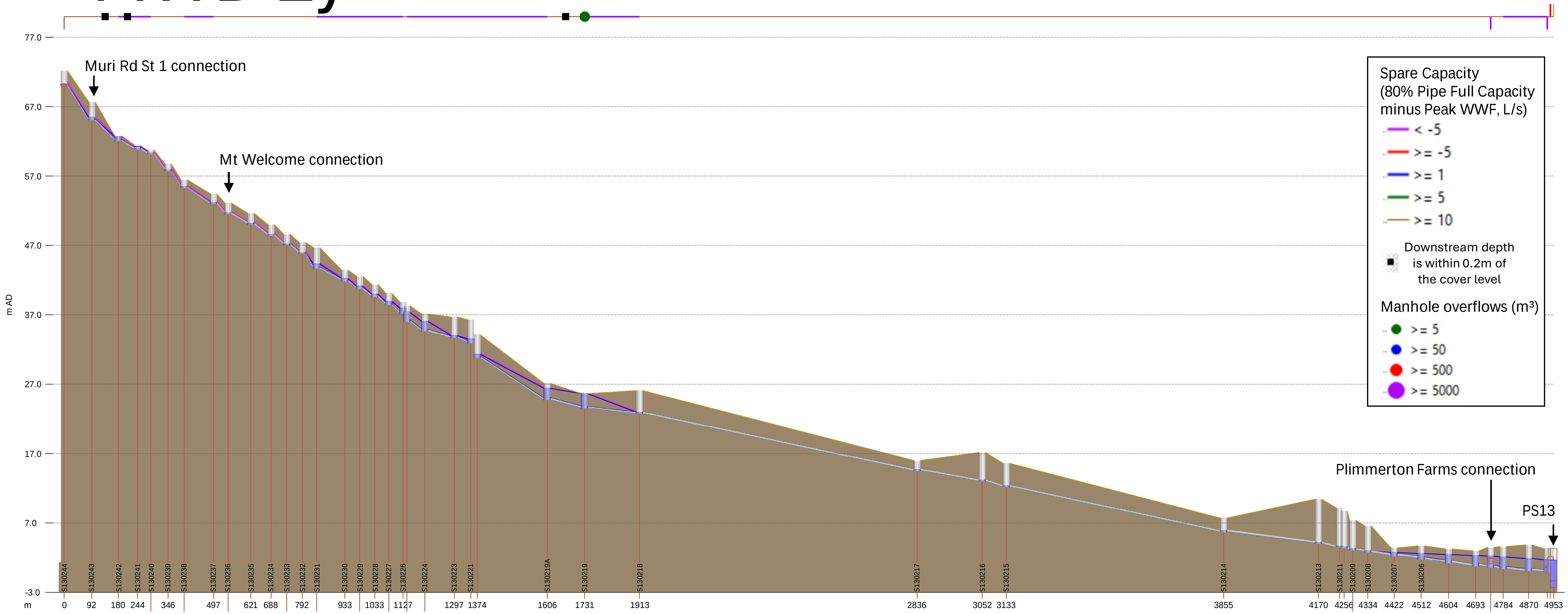


77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
m AD
Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link - S130220.1 - S130219.1 S130218.1 S130217.1 - S130215.1 S130214.1 - - - - - - - - - - - -
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) - - - - - - 55.280 - - - - - - - - - - - - 34.640 - 30.800 24.730 23.520 22.750 14.500 - 12.180 5.680 - - - 2.760 2.240 1.720 1.200 - - 0.350 -
ds inv (m AD) - - - - - - 53.000 - - - - - - - - - - - - 33.680 - 24.730 23.520 22.750 14.500 13.000 - 5.680 4.000 - - - 2.310 1.790 1.270 0.750 - - 0.050 -
US flow (l/s) 81.65 87.89 - - - - 81.80 - - - - - - 90.66 - - - - - 85.92 - 85.73 85.71 72.12 71.98 71.98 71.98 71.98 71.98 - - - 71.96 71.94 71.95 71.96 - - 92.89 -
Node - S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 - - - - - - - -
ground (m AD) - 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423 - - - - - - - -
Flood type Lost - - - - - - - - - - - - - - - - - - - Lost Sealed Lost Lost Lost Lost Lost Lost Lost - Lost Lost Lost - - -
level (m AD) - - - - - - - - - - - - - - - - - - - 31.322 26.399 25.620 22.923 14.686 13.170 12.353 5.882 4.185 - - - - - - - -

MWC 2y


Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
Link
width (mm)
pfc (l/s)
us inv (m AD)
ds inv (m AD)
US flow (l/s)
Node
ground (m AD)
Flood type
level (m AD)

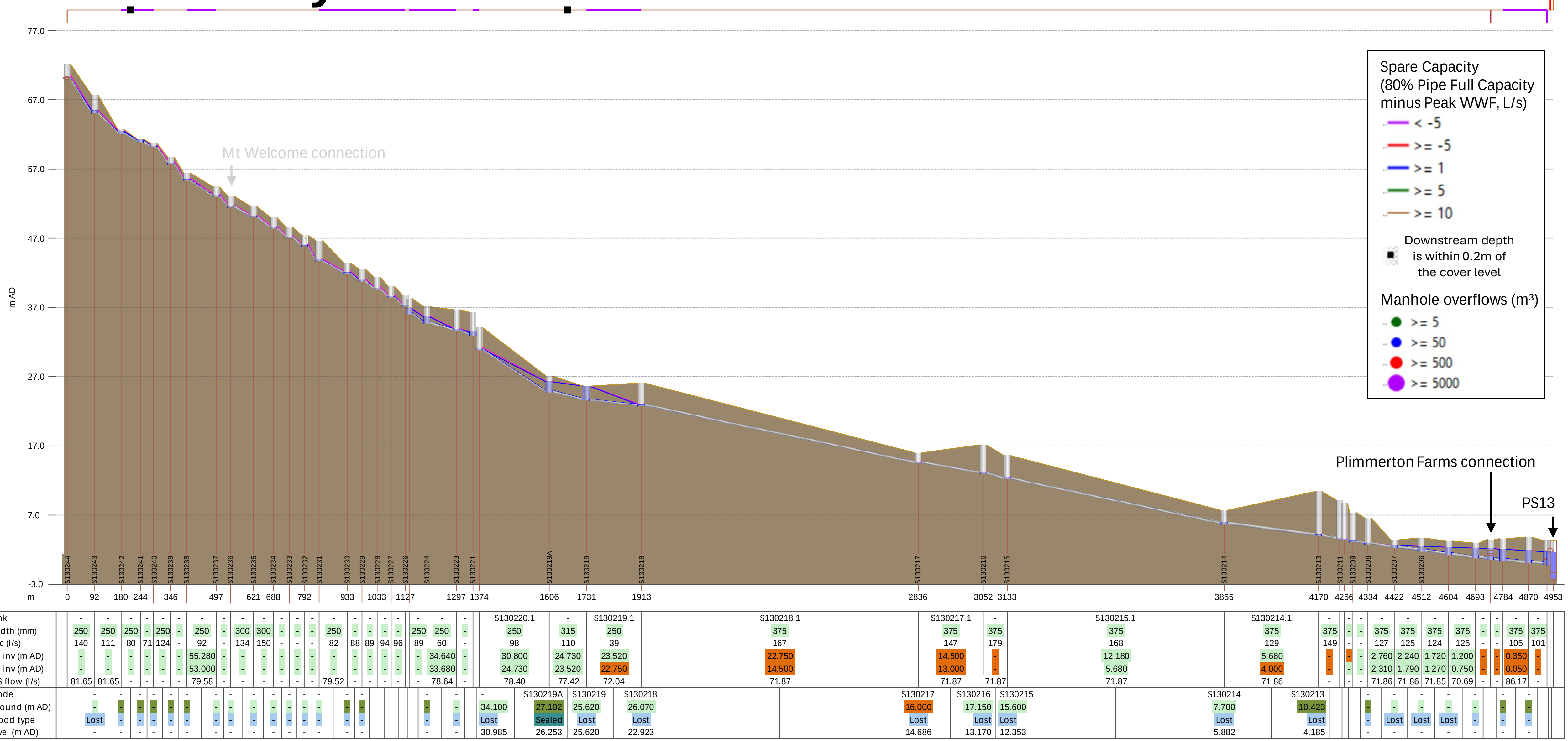
MWD 2y



Link	width (mm)	pfc (l/s)	us inv (m AD)	ds inv (m AD)	US flow (l/s)
-	250	140	-	-	81.65
-	250	111	-	-	87.90
-	250	80	-	-	-
-	-	71	-	-	-
-	250	124	-	-	-
-	-	-	-	-	-
-	250	92	55.280	53.000	81.80
-	-	-	-	-	-
-	300	134	-	-	-
-	300	150	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	250	82	-	-	90.68
-	-	88	-	-	-
-	-	89	-	-	-
-	-	94	-	-	-
-	-	96	-	-	-
-	250	89	-	-	-
-	250	60	34.640	33.680	85.88
-	-	-	-	-	-
S130220.1	250	98	30.800	24.730	85.71
-	315	110	24.730	23.520	85.69
S130219.1	250	39	23.520	22.750	72.07
S130218.1	375	167	22.750	14.500	71.98
S130217.1	375	147	14.500	13.000	71.98
-	375	179	-	-	71.98
S130215.1	375	168	12.180	5.680	71.98
S130214.1	375	129	5.680	4.000	71.98
-	375	149	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	375	127	2.760	2.310	71.98
-	375	125	2.240	1.790	72.06
-	375	124	1.720	1.270	72.03
-	375	125	1.200	0.750	72.02
-	-	-	-	-	-
-	-	-	-	-	-
-	375	105	0.350	0.050	90.54
-	375	101	-	-	-

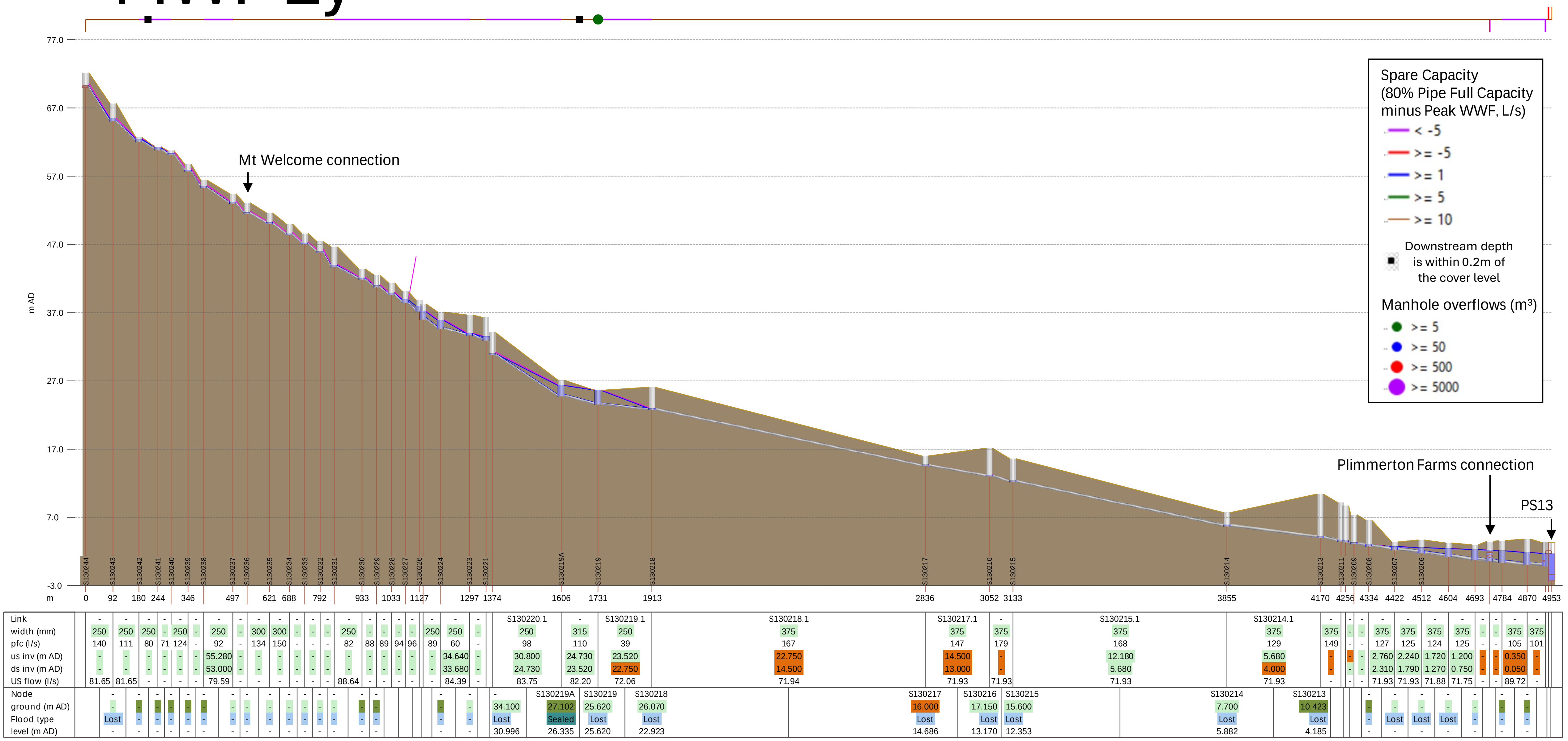
Node	ground (m AD)	Flood type	level (m AD)
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	34.100	Lost	31.319
S130219A	27.102	Sealed	26.398
S130219	25.620	Lost	25.620
S130218	26.070	Lost	22.923
S130217	16.000	Lost	14.686
S130216	17.150	Lost	13.170
S130215	15.600	Lost	12.353
S130214	7.700	Lost	5.882
S130213	10.423	Lost	4.185
-	-	-	-
-	-	Lost	-
-	-	Lost	-
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-

MWE 2y



Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link S130220.1 S130219.1 S130218.1 S130217.1 S130215.1 S130214.1
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) 55.280 34.640 30.800 24.730 23.520 22.750 14.500 - 12.180 5.680 - 2.760 2.240 1.720 1.200 - - 0.350 -
ds inv (m AD) 53.000 33.680 24.730 23.520 22.750 14.500 13.000 - 5.680 4.000 - 2.310 1.790 1.270 0.750 - - 0.050 -
US flow (l/s) 81.65 81.65 79.58 79.52 78.64 78.40 77.42 72.04 71.87 71.87 71.87 71.87 71.86 71.86 71.86 71.85 70.69 86.17
Node S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213
ground (m AD) 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423
Flood type Lost Lost Sealed Lost Lost Lost Lost Lost Lost Lost Lost Lost Lost
level (m AD) 30.985 26.253 25.620 22.923 14.686 13.170 12.353 5.882 4.185

MWF 2y



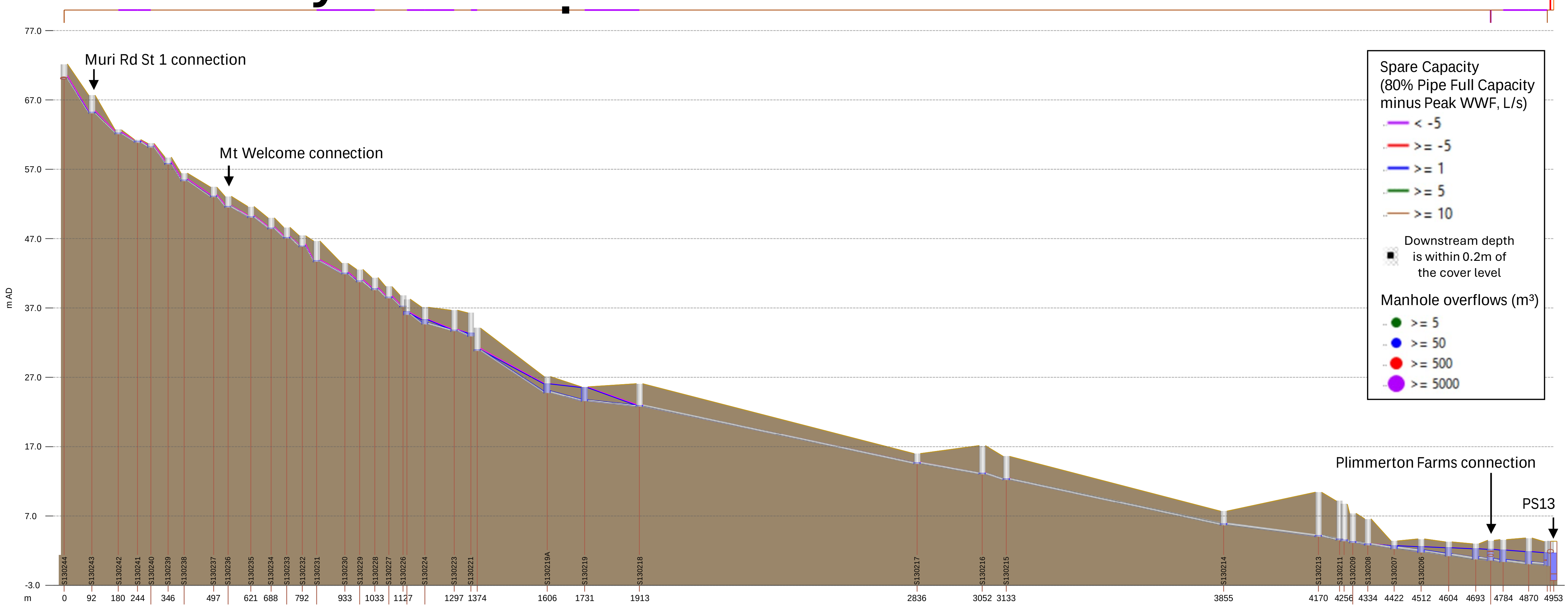
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
m AD
Mt Welcome connection
Plimmerton Farms connection
PS13
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link - S130220.1 - S130219.1 S130218.1 S130217.1 - S130215.1 S130214.1
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) 55.280 34.640 30.800 24.730 23.520 22.750 14.500 - 12.180 5.680 - 2.760 2.240 1.720 1.200 - - 0.350 -
ds inv (m AD) 53.000 33.680 24.730 23.520 22.750 14.500 13.000 - 5.680 4.000 - 2.310 1.790 1.270 0.750 - - 0.050 -
US flow (l/s) 81.65 81.65 79.59 88.64 84.39 83.75 82.20 72.06 71.94 71.93 71.93 71.93 71.93 71.93 71.93 71.88 71.75 89.72
Node - S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213
ground (m AD) 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423
Flood type Lost Lost Sealed Lost Lost Lost Lost Lost Lost Lost Lost Lost Lost
level (m AD) 30.996 26.335 25.620 22.923 14.686 13.170 12.353 5.882 4.185

MWA 1y

Link	width (mm)	pfc (l/s)	us inv (m AD)	ds inv (m AD)	US flow (l/s)
-	250	140	-	-	63.77
-	250	111	-	-	66.27
-	250	80	-	-	-
-	-	71	-	-	-
-	250	124	-	-	-
-	-	-	-	-	-
-	250	92	55.280	53.000	66.26
-	-	-	-	-	-
-	300	134	-	-	-
-	300	150	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	250	82	-	-	66.25
-	-	88	-	-	-
-	-	89	-	-	-
-	-	94	-	-	-
-	-	96	-	-	-
-	250	89	-	-	-
-	250	60	34.640	33.680	65.89
-	-	-	-	-	-
S130220.1	250	98	30.800	24.730	65.82
-	315	110	24.730	23.520	65.43
S130219.1	250	39	23.520	22.750	65.33
S130218.1	375	167	22.750	14.500	65.32
S130217.1	375	147	14.500	13.000	65.30
-	375	179	-	-	65.29
S130215.1	375	168	12.180	5.680	65.29
S130214.1	375	129	5.680	4.000	65.28
-	375	149	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	375	127	2.760	2.310	65.26
-	375	125	2.240	1.790	64.70
-	375	124	1.720	1.270	64.53
-	375	125	1.200	0.750	64.48
-	-	-	-	-	-
-	-	-	-	-	-
-	375	105	0.350	0.050	83.16
-	375	101	-	-	-

Node	ground (m AD)	Flood type	level (m AD)
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	34.100	Lost	30.960
S130219A	27.102	Sealed	25.602
S130219	25.620	Lost	25.155
S130218	26.070	Lost	22.914
S130217	16.000	Lost	14.676
S130216	17.150	Lost	13.161
S130215	15.600	Lost	12.343
S130214	7.700	Lost	5.870
S130213	10.423	Lost	4.175
-	-	-	-
-	-	Lost	-
-	-	Lost	-
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-

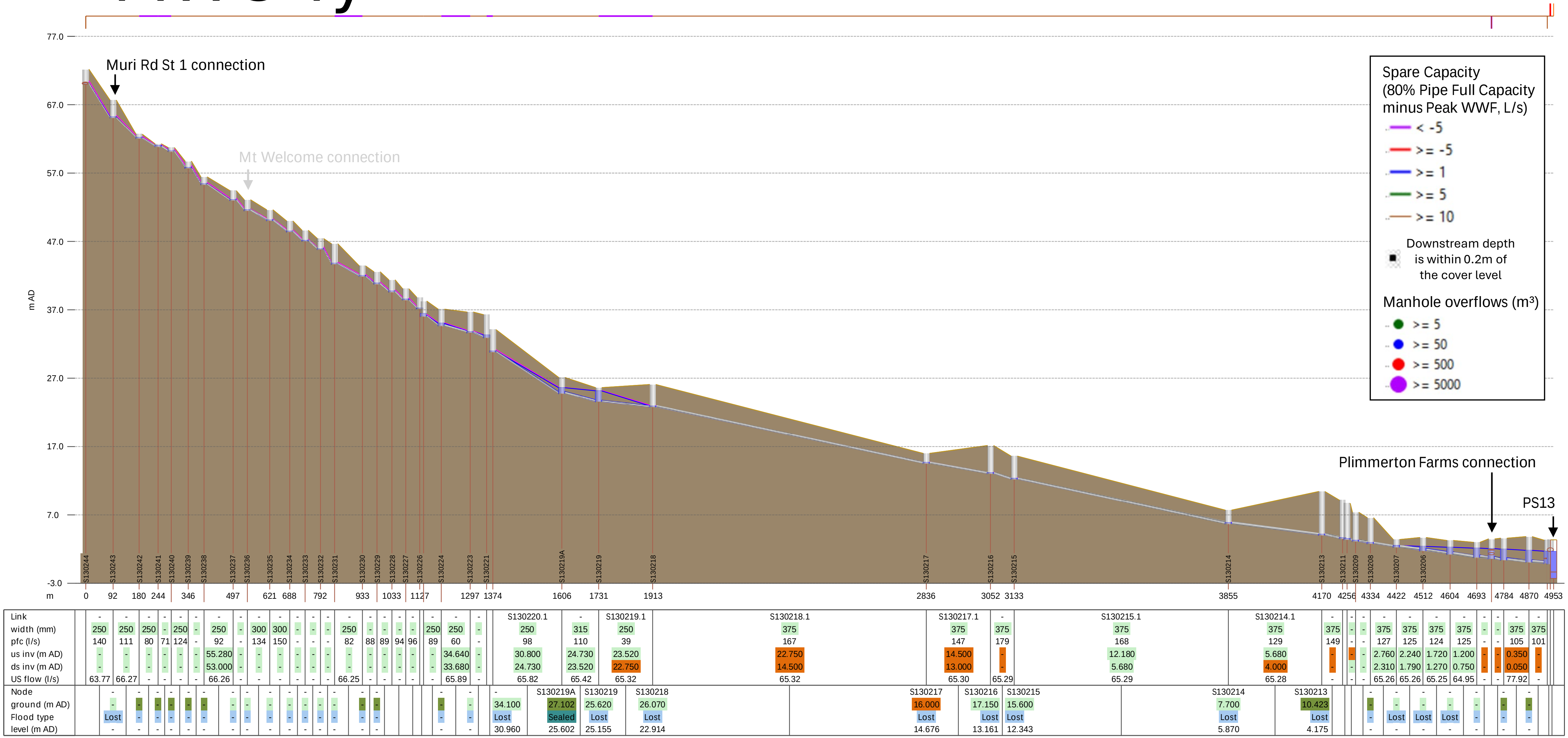
MWB 1y



Link	width (mm)	pfc (l/s)	us inv (m AD)	ds inv (m AD)	US flow (l/s)
-	250	140	-	-	63.77
-	250	111	-	-	66.27
-	250	80	-	-	-
-	-	71	-	-	-
-	250	124	-	-	-
-	-	-	-	-	-
-	250	92	55.280	53.000	66.26
-	-	-	-	-	-
-	300	134	-	-	-
-	300	150	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	250	82	-	-	71.73
-	-	88	-	-	-
-	-	89	-	-	-
-	-	94	-	-	-
-	-	96	-	-	-
-	250	89	-	-	-
-	250	60	34.640	33.680	71.52
-	-	-	-	-	-
S130220.1	250	98	30.800	24.730	71.43
-	315	110	24.730	23.520	70.57
S130219.1	250	39	23.520	22.750	70.46
S130218.1	375	167	22.750	14.500	70.46
S130217.1	375	147	14.500	13.000	70.44
-	375	179	-	-	70.43
S130215.1	375	168	12.180	5.680	70.43
S130214.1	375	129	5.680	4.000	70.41
-	375	149	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	375	127	2.760	2.310	70.38
-	375	125	2.240	1.790	69.90
-	375	124	1.720	1.270	69.88
-	375	125	1.200	0.750	69.87
-	-	-	-	-	-
-	-	-	-	-	-
-	375	105	0.350	0.050	88.52
-	375	101	-	-	-

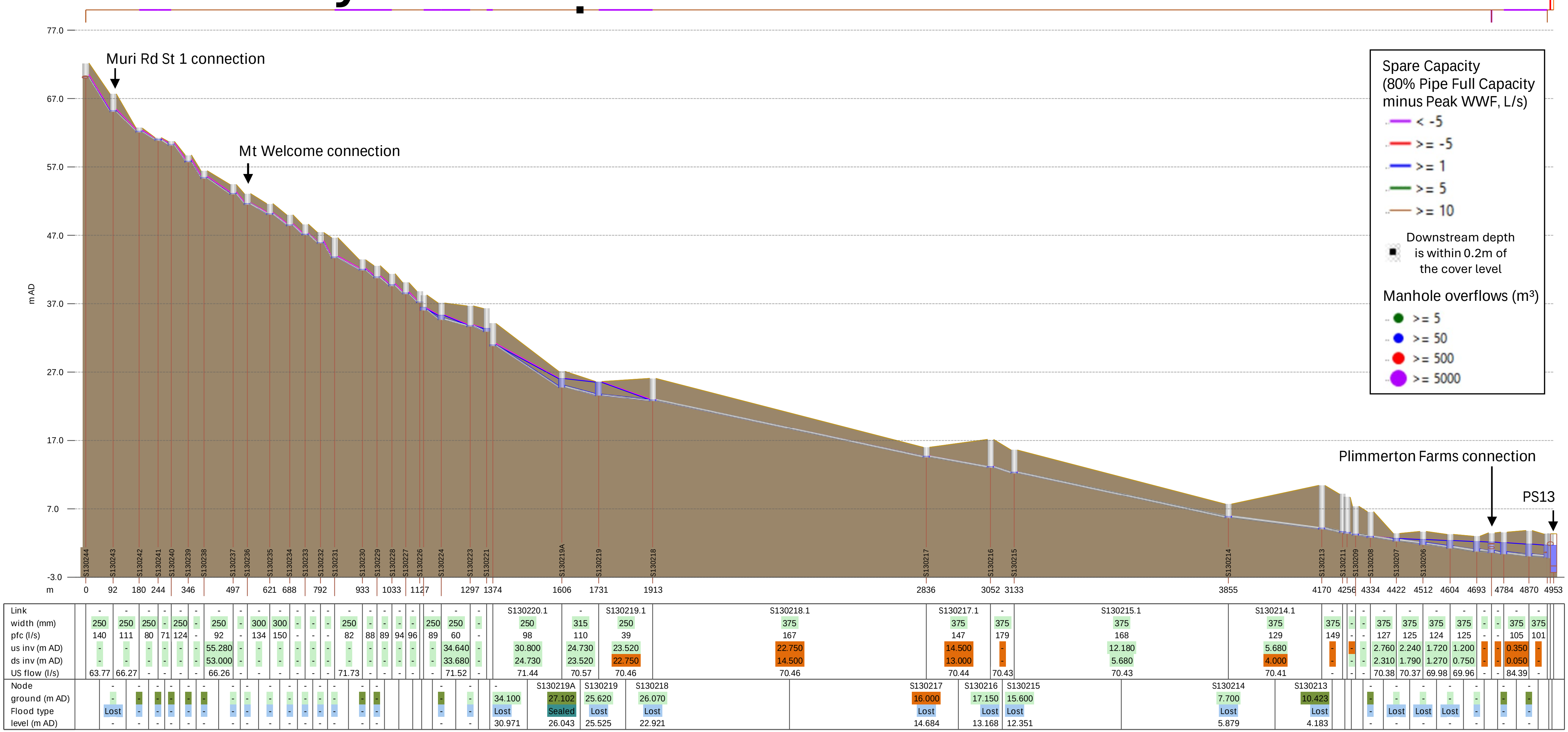
Node	ground (m AD)	Flood type	level (m AD)
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	34.100	Lost	30.971
S130219A	27.102	Sealed	26.043
S130219	25.620	Lost	25.525
S130218	26.070	Lost	22.921
S130217	16.000	Lost	14.684
S130216	17.150	Lost	13.168
S130215	15.600	Lost	12.351
S130214	7.700	Lost	5.879
S130213	10.423	Lost	4.183
-	-	-	-
-	-	Lost	-
-	-	Lost	-
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-

MWC 1y



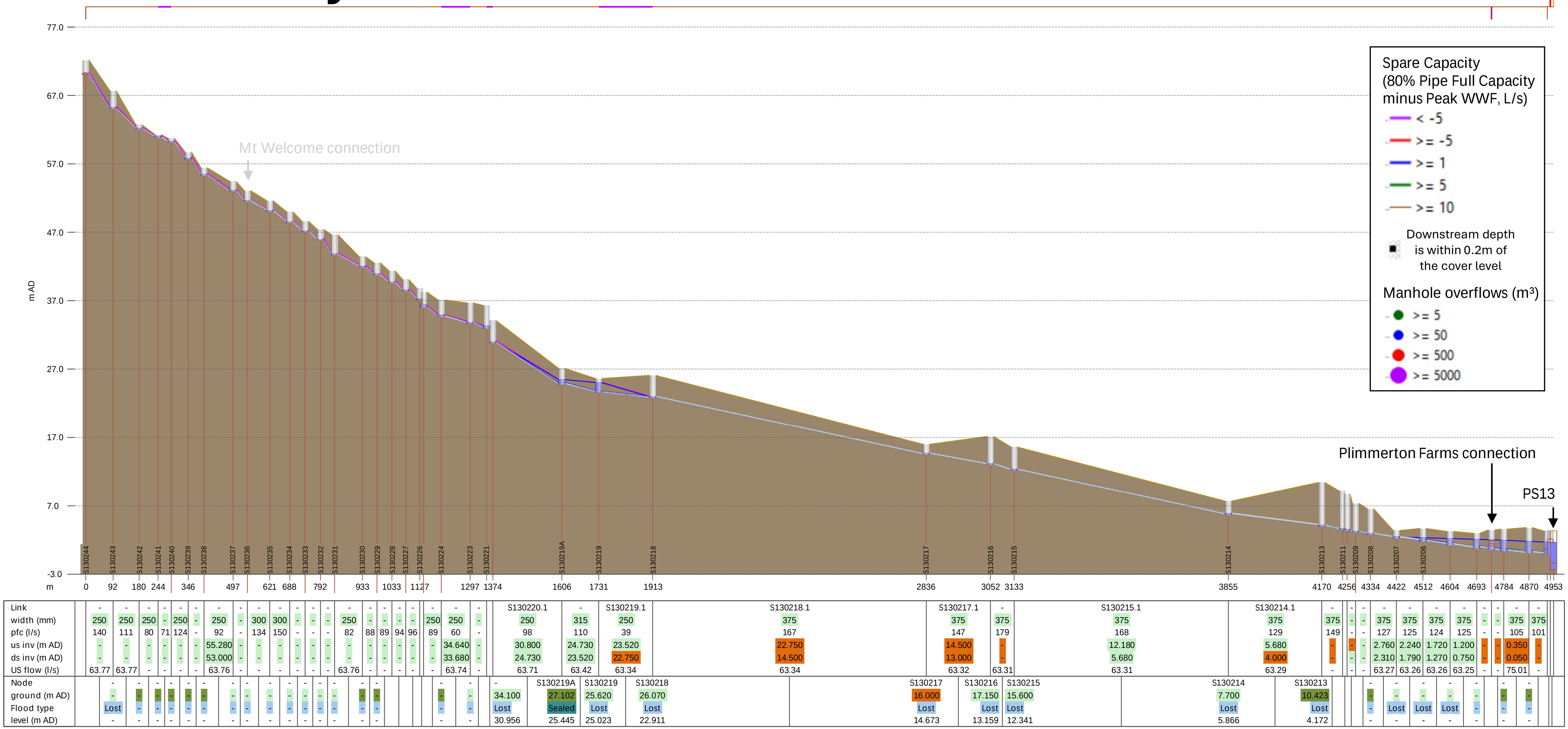
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
m AD
Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link - S130220.1 - S130219.1 S130218.1 S130217.1 - S130215.1 S130214.1 - - - - - - - - - - -
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) - - - - - - 55.280 - - - - - - - - - - - - 34.640 - 30.800 24.730 23.520 22.750 14.500 - 12.180 5.680 - - - 2.760 2.240 1.720 1.200 - - 0.350 -
ds inv (m AD) - - - - - - 53.000 - - - - - - - - - - - - 33.680 - 24.730 23.520 22.750 14.500 13.000 - 5.680 4.000 - - - 2.310 1.790 1.270 0.750 - - 0.050 -
US flow (l/s) 63.77 66.27 - - - - 66.26 - - - - - - 66.25 - - - - - 65.89 - 65.82 65.42 65.32 65.32 65.30 65.29 65.29 65.28 - - - 65.26 65.26 65.25 64.95 - - 77.92 -
Node - - - - - - - - - - - - - - - - - - S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 - - - - - - -
ground (m AD) - - - - - - - - - - - - - - - - - 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423 - - - - - - -
Flood type Lost - - - - - - - - - - - - - - - - Lost Sealed Lost Lost Lost Lost Lost Lost Lost - Lost Lost Lost - - -
level (m AD) - - - - - - - - - - - - - - - - - 30.960 25.602 25.155 22.914 14.676 13.161 12.343 5.870 4.175 - - - - - - -

MWD 1y

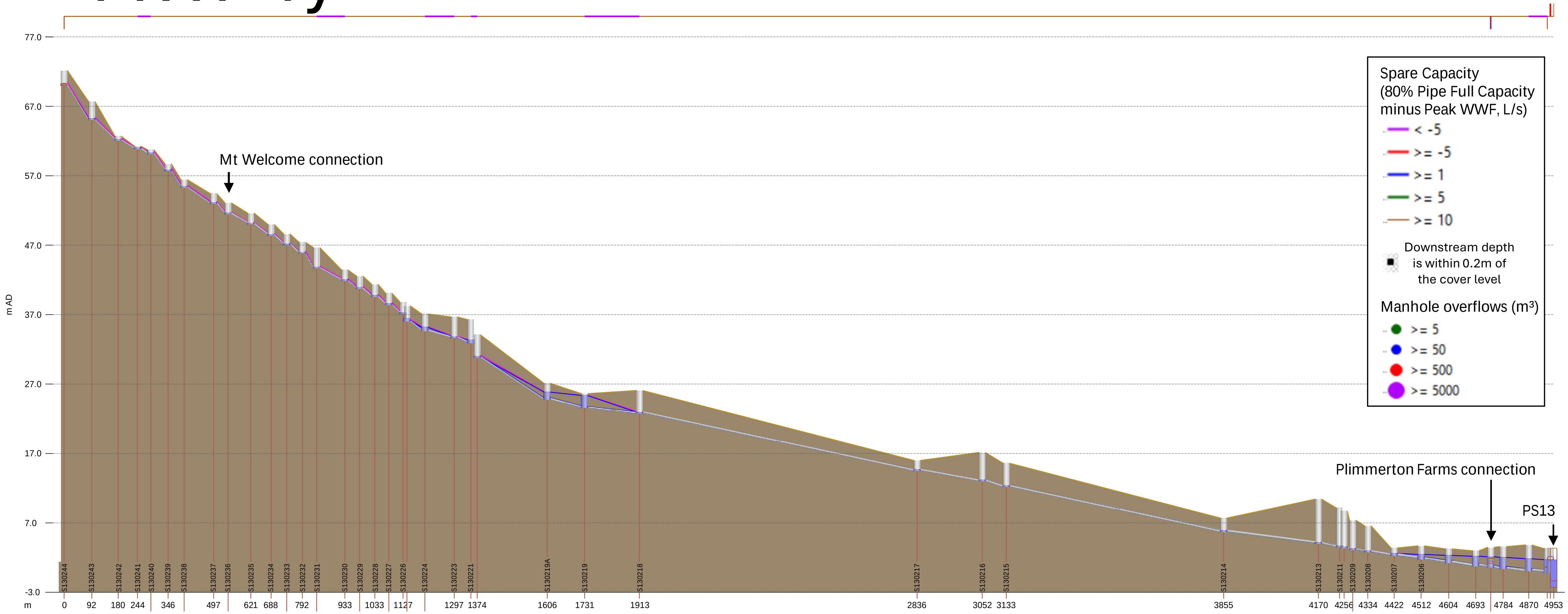


Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
m
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
Link
width (mm)
pfc (l/s)
us inv (m AD)
ds inv (m AD)
US flow (l/s)
Node
ground (m AD)
Flood type
level (m AD)

MWE 1y


Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link S130220.1 S130219.1 S130218.1 S130217.1 S130215.1 S130214.1
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) 55.280 34.640 30.800 24.730 23.520 22.750 14.500 12.180 5.680 2.760 2.240 1.720 1.200 0.350
ds inv (m AD) 53.000 33.680 24.730 23.520 22.750 14.500 13.000 5.680 4.000 2.310 1.790 1.270 0.750 0.050
US flow (l/s) 63.77 63.77 63.76 63.76 63.74 63.71 63.42 63.34 63.34 63.32 63.31 63.31 63.29 63.27 63.26 63.26 63.25 75.01
Node S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213
ground (m AD) 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423
Flood type Lost Lost Sealed Lost Lost Lost Lost Lost Lost Lost Lost Lost Lost
level (m AD) 30.956 25.445 25.023 22.911 14.673 13.159 12.341 5.866 4.172

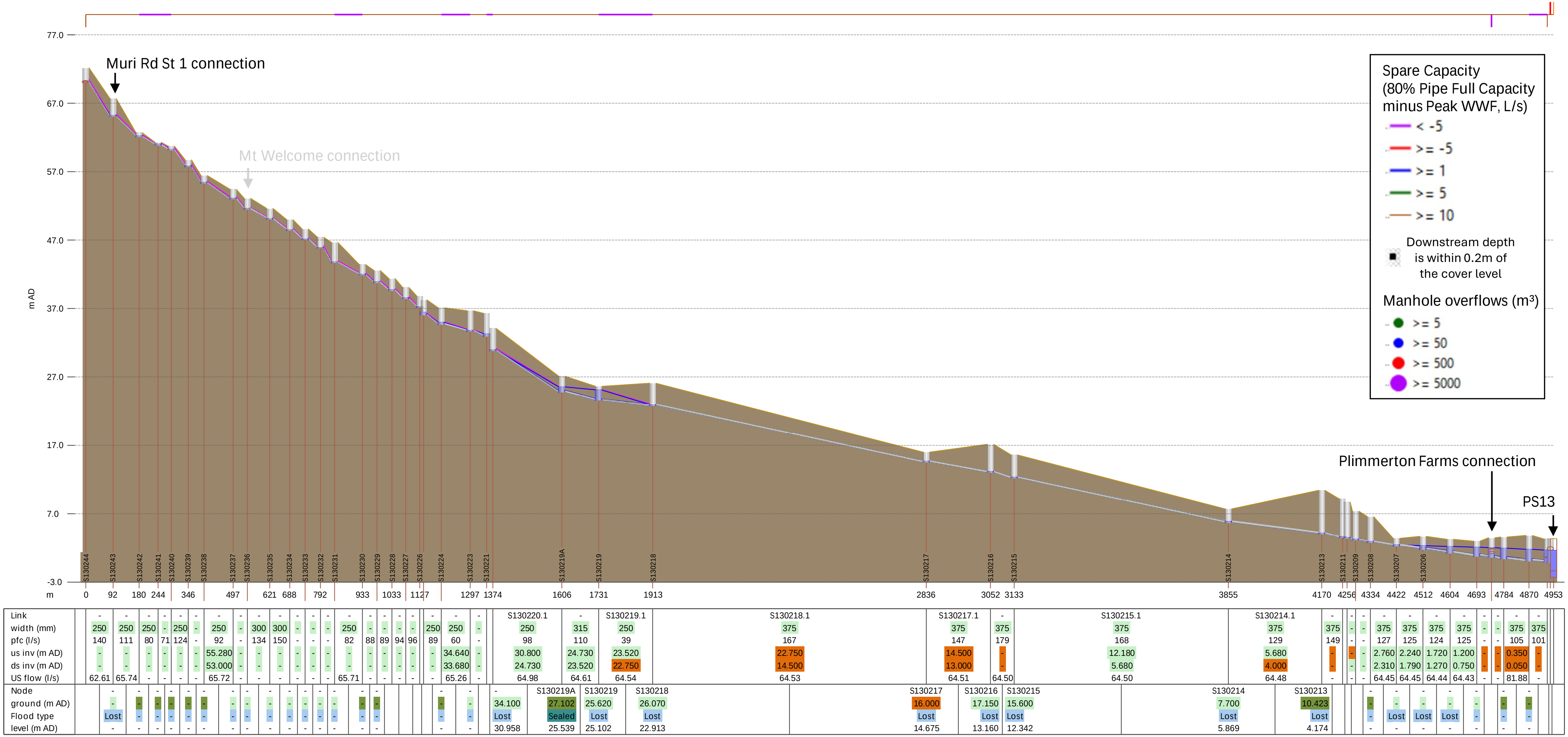
MWF 1y



Link	width (mm)	pfc (l/s)	us inv (m AD)	ds inv (m AD)	US flow (l/s)
-	250	140	-	-	63.77
-	250	111	-	-	63.77
-	250	80	-	-	-
-	-	71	-	-	-
-	250	124	-	-	-
-	-	-	-	-	-
-	250	92	55.280	53.000	63.76
-	-	-	-	-	-
-	300	134	-	-	-
-	300	150	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	250	82	-	-	69.16
-	-	88	-	-	-
-	-	89	-	-	-
-	-	94	-	-	-
-	-	96	-	-	-
-	250	89	-	-	-
-	250	60	34.640	33.680	68.89
-	-	-	-	-	-
S130220.1	250	98	30.800	24.730	68.82
-	315	110	24.730	23.520	68.10
S130219.1	250	39	23.520	22.750	67.99
S130218.1	375	167	22.750	14.500	67.99
S130217.1	375	147	14.500	13.000	67.96
-	375	179	-	-	67.95
S130215.1	375	168	12.180	5.680	67.95
S130214.1	375	129	5.680	4.000	67.93
-	375	149	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	375	127	2.760	2.310	67.91
-	375	125	2.240	1.790	67.91
-	375	124	1.720	1.270	67.86
-	375	125	1.200	0.750	67.37
-	-	-	-	-	-
-	-	-	-	-	-
-	375	105	0.350	0.050	81.92
-	375	101	-	-	-

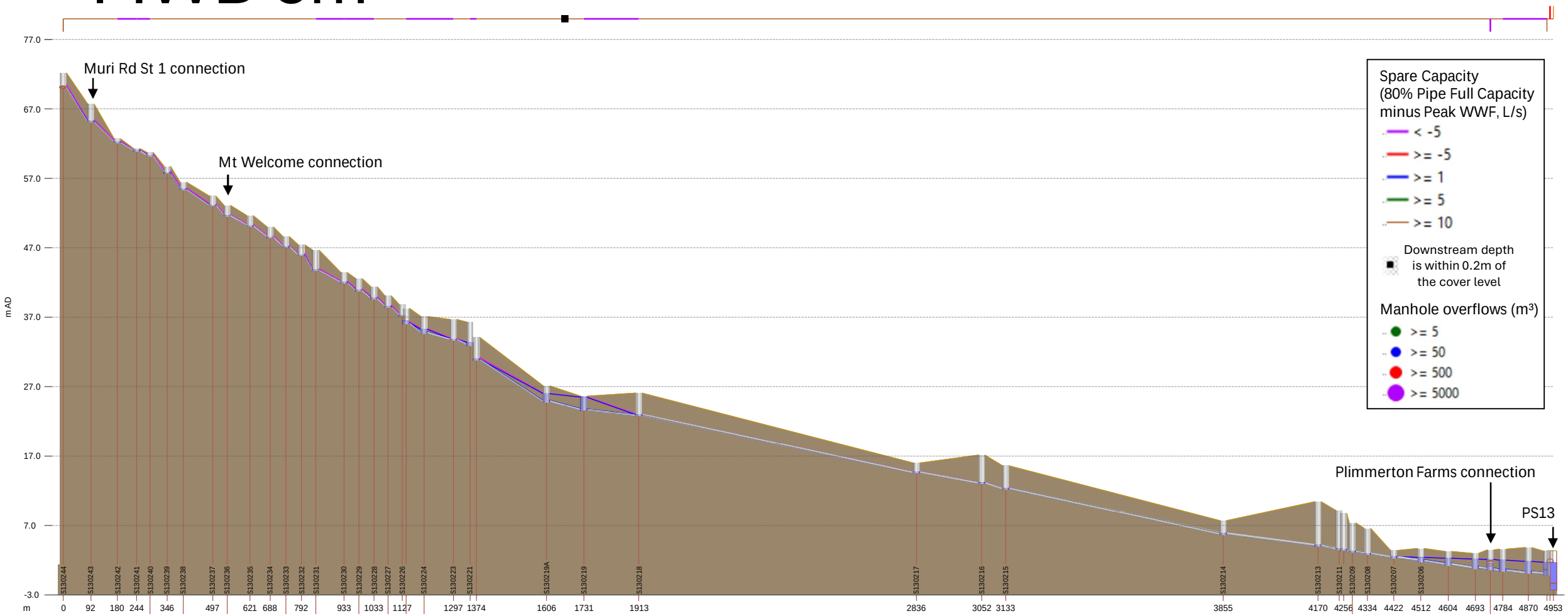
Node	ground (m AD)	Flood type	level (m AD)
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	34.100	Lost	30.966
S130219A	27.102	Sealed	25.830
S130219	25.620	Lost	25.347
S130218	26.070	Lost	22.918
S130217	16.000	Lost	14.680
S130216	17.150	Lost	13.165
S130215	15.600	Lost	12.347
S130214	7.700	Lost	5.875
S130213	10.423	Lost	4.179
-	-	-	-
-	-	Lost	-
-	-	Lost	-
-	-	Lost	-
-	-	-	-
-	-	-	-
-	-	-	-

MWA 6m



Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
Link
width (mm)
pfc (l/s)
us inv (m AD)
ds inv (m AD)
US flow (l/s)
Node
ground (m AD)
Flood type
level (m AD)
S130220.1
S130219.1
S130218.1
S130217.1
S130215.1
S130214.1
S130219A
S130219
S130218
S130217
S130216
S130215
S130214
S130213

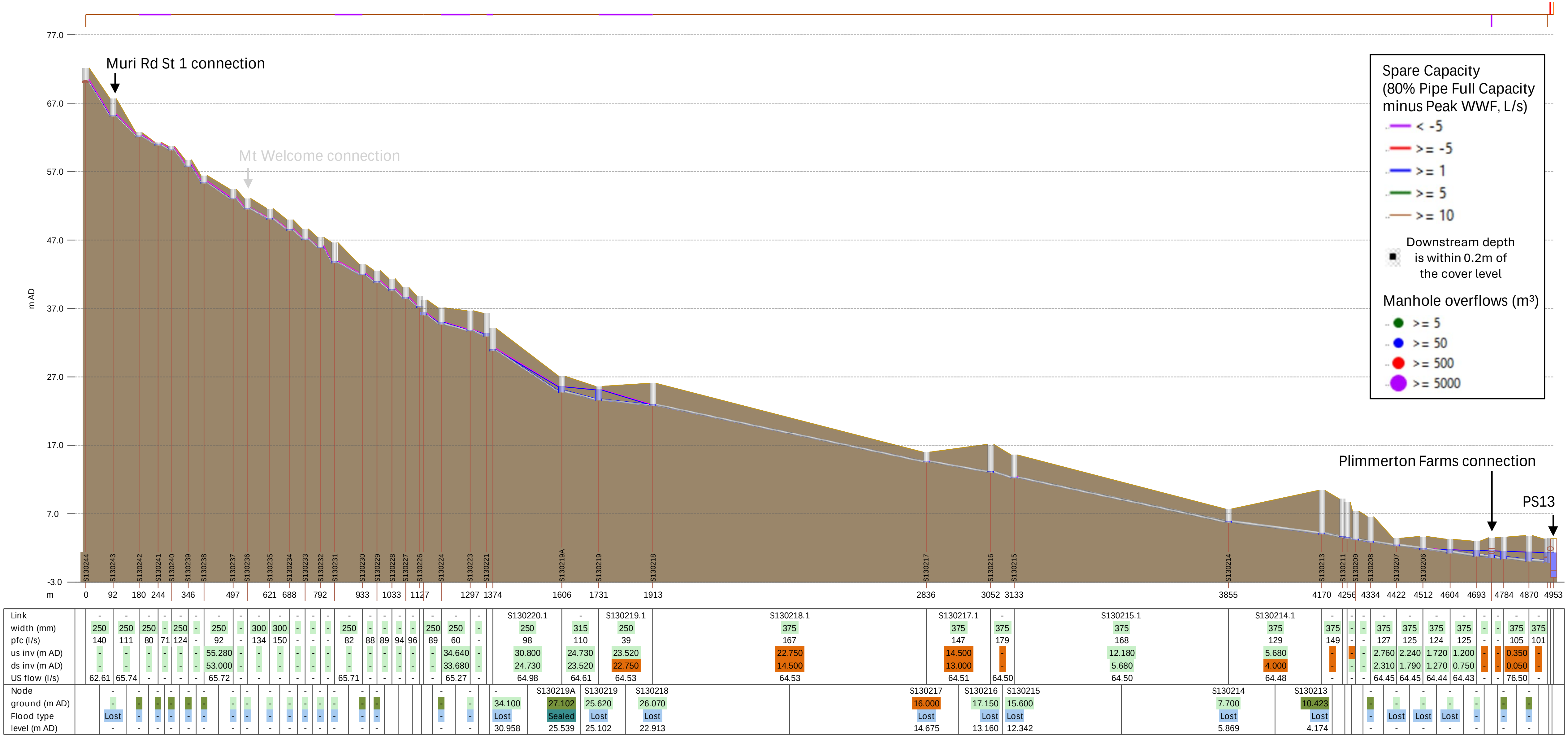
MWB 6m



Link	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S130220.1	-	S130219.1	S130218.1	S130217.1	-	S130215.1	S130214.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
width (mm)	250	250	250	-	250	-	250	-	300	300	-	-	-	250	-	-	-	-	-	250	250	-	250	315	250	375	375	375	375	375	-	-	-	375	375	375	375	-	-	375	375				
pfc (l/s)	140	111	80	71	124	-	92	-	134	150	-	-	-	82	88	89	94	96	89	60	-	98	110	39	167	147	179	168	129	149	-	-	127	125	124	125	-	-	105	101				
us inv (m AD)	-	-	-	-	-	-	55.280	-	-	-	-	-	-	-	-	-	-	-	-	34.640	-	30.800	24.730	23.520	22.750	14.500	-	12.180	5.680	-	-	-	2.760	2.240	1.720	1.200	-	-	0.350	-				
ds inv (m AD)	-	-	-	-	-	-	53.000	-	-	-	-	-	-	-	-	-	-	-	-	33.680	-	24.730	23.520	22.750	14.500	13.000	-	5.680	4.000	-	-	-	2.310	1.790	1.270	0.750	-	-	0.050	-				
US flow (l/s)	62.61	65.74	-	-	-	-	65.72	-	-	-	-	-	-	71.35	-	-	-	-	-	70.96	-	70.77	69.95	69.75	69.74	69.69	69.68	69.67	69.63	-	-	-	69.59	69.58	69.57	68.45	-	-	86.31	-				

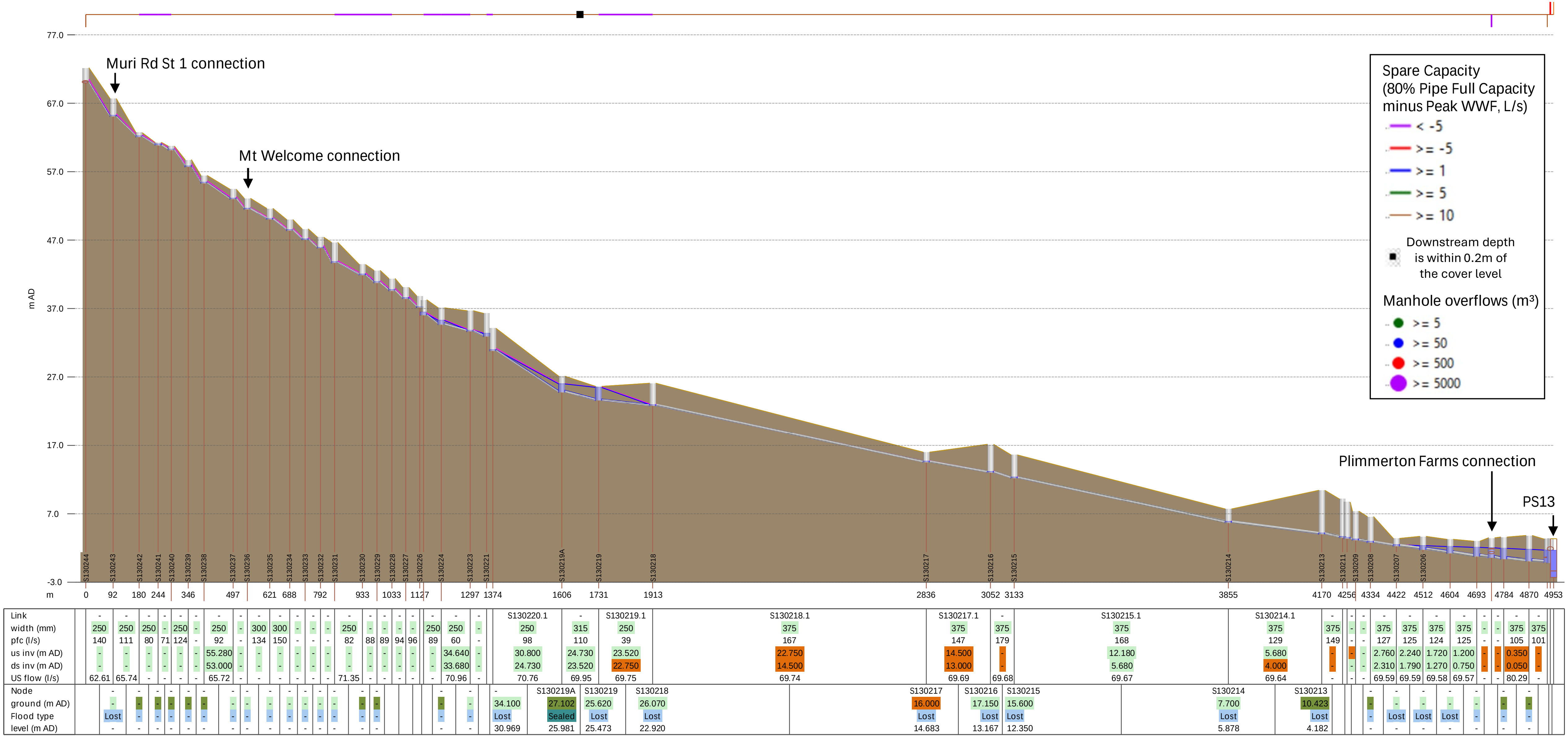
Node	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S130219A	S130219	S130218			S130217	S130216	S130215			S130214		S130213										
ground (m AD)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.100	27.102	25.620	26.070			16.000	17.150	15.600			7.700		10.423										
Flood type		Lost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lost	Sealed	Lost	Lost			Lost	Lost	Lost			Lost		Lost										
level (m AD)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.969	25.981	25.473	22.920			14.683	13.167	12.350			5.878		4.182										

MWC 6m



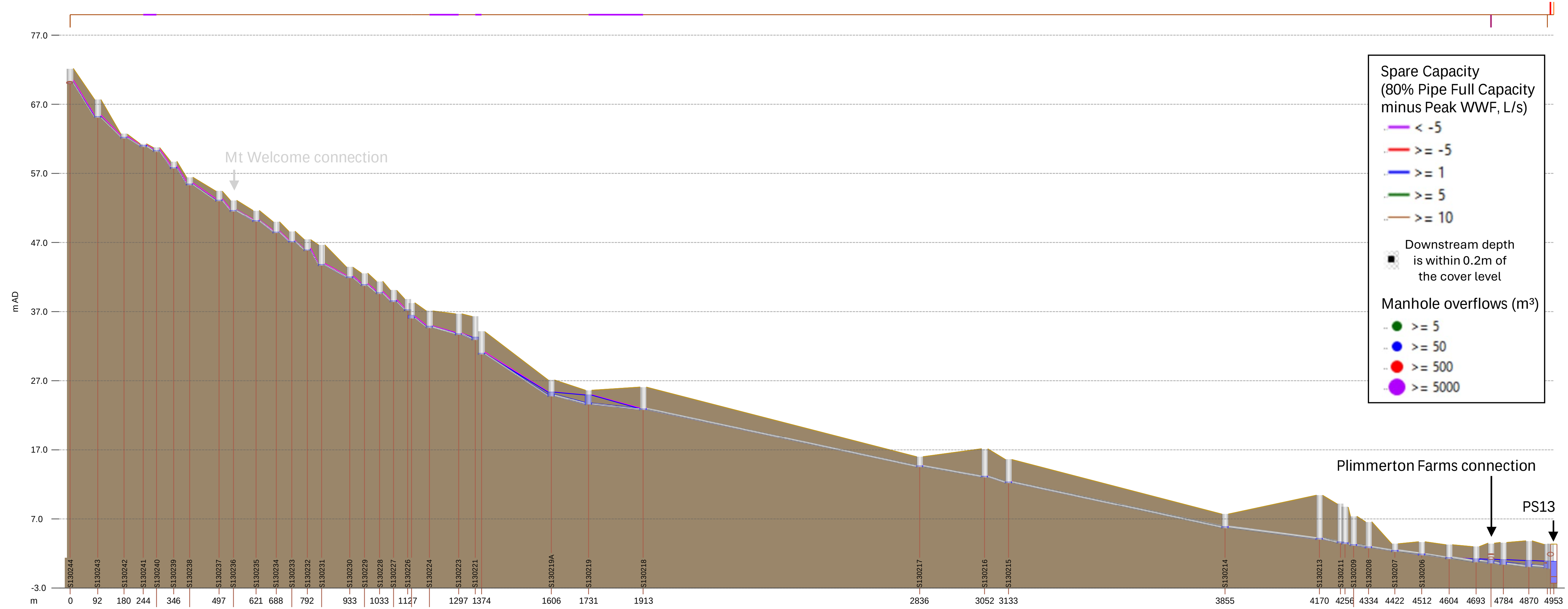
Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
m AD
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
S130244 S130243 S130242 S130241 S130240 S130239 S130238 S130237 S130236 S130235 S130234 S130233 S130232 S130231 S130230 S130229 S130228 S130227 S130226 S130224 S130223 S130221 S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213 S130211 S130209 S130208 S130207 S130206
m 0 92 180 244 346 497 621 688 792 933 1033 1127 1297 1374 1606 1731 1913 2836 3052 3133 3855 4170 4256 4334 4422 4512 4604 4693 4784 4870 4953
Link - S130220.1 - S130219.1 S130218.1 S130217.1 - S130215.1 S130214.1 -
width (mm) 250 250 250 - 250 - 250 - 300 300 - - - 250 - - - - 250 250 - 250 315 250 375 375 375 375 375 375 - - 375 375 375 375 - - 375 375
pfc (l/s) 140 111 80 71 124 - 92 - 134 150 - - - 82 88 89 94 96 89 60 - 98 110 39 167 147 179 168 129 149 - - 127 125 124 125 - - 105 101
us inv (m AD) 55.280 34.640 30.800 24.730 23.520 22.750 14.500 12.180 5.680 2.760 2.240 1.720 1.200 0.350
ds inv (m AD) 53.000 33.680 24.730 23.520 22.750 14.500 13.000 5.680 4.000 2.310 1.790 1.270 0.750 0.050
US flow (l/s) 62.61 65.74 65.72 65.71 65.27 64.98 64.61 64.53 64.53 64.51 64.50 64.50 64.48 64.45 64.45 64.44 64.43 76.50
Node S130219A S130219 S130218 S130217 S130216 S130215 S130214 S130213
ground (m AD) 34.100 27.102 25.620 26.070 16.000 17.150 15.600 7.700 10.423
Flood type Lost Lost Sealed Lost Lost Lost Lost Lost Lost Lost Lost Lost Lost
level (m AD) 30.958 25.539 25.102 22.913 14.675 13.160 12.342 5.869 4.174

MWD 6m



Muri Rd St 1 connection
Mt Welcome connection
Plimmerton Farms connection
PS13
Spare Capacity (80% Pipe Full Capacity minus Peak WWF, L/s)
< -5
>= -5
>= 1
>= 5
>= 10
Downstream depth is within 0.2m of the cover level
Manhole overflows (m³)
>= 5
>= 50
>= 500
>= 5000
m AD
77.0
67.0
57.0
47.0
37.0
27.0
17.0
7.0
-3.0
m
Link
width (mm)
pfc (l/s)
us inv (m AD)
ds inv (m AD)
US flow (l/s)
Node
ground (m AD)
Flood type
level (m AD)

MWE 6m



Link	-	-	-	-	-	-	-	-	-	-
width (mm)	250	250	250	-	250	-	250	-	300	300
pfc (l/s)	140	111	80	71	124	-	92	-	134	150
us inv (m AD)	-	-	-	-	-	-	55.280	-	-	-
ds inv (m AD)	-	-	-	-	-	-	53.000	-	-	-
US flow (l/s)	62.61	62.61	-	-	-	-	62.60	-	-	-

Link	-	-	-	-	-	-	-	-	-	-
width (mm)	-	-	-	250	-	-	-	-	250	250
pfc (l/s)	-	-	-	82	88	89	94	96	89	60
us inv (m AD)	-	-	-	-	-	-	-	-	-	34.640
ds inv (m AD)	-	-	-	-	-	-	-	-	-	33.680
US flow (l/s)	-	-	-	62.59	-	-	-	-	-	62.57

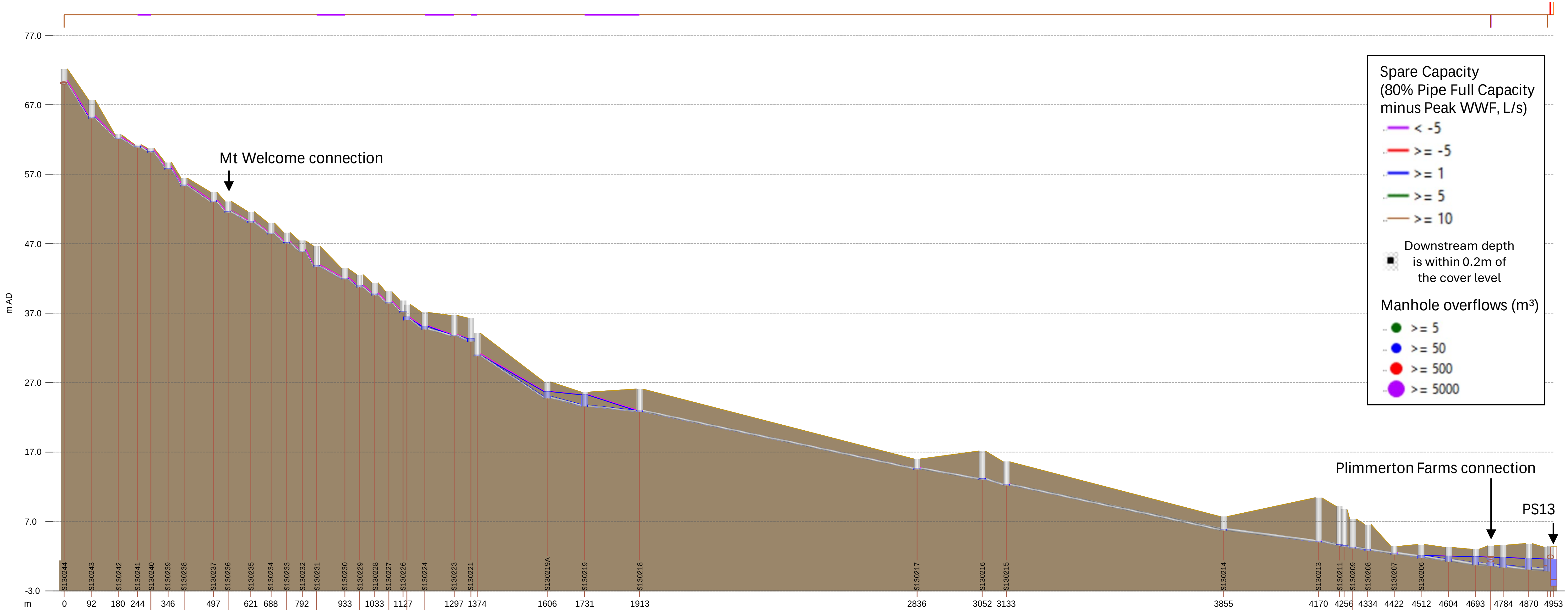
Link	-	S130220.1	-	S130219.1	S130218.1	S130217.1	-	S130215.1	S130214.1	-
width (mm)	-	250	315	250	375	375	375	375	375	375
pfc (l/s)	-	98	110	39	167	147	179	168	129	149
us inv (m AD)	-	30.800	24.730	23.520	22.750	14.500	-	12.180	5.680	-
ds inv (m AD)	-	24.730	23.520	22.750	14.500	13.000	-	5.680	4.000	-
US flow (l/s)	-	62.52	62.06	61.93	61.93	61.89	61.87	61.87	61.83	-

Link	-	-	-	-	-	-	-	-	-	-
width (mm)	-	-	375	375	375	375	-	-	375	375
pfc (l/s)	-	-	127	125	124	125	-	-	105	101
us inv (m AD)	-	-	2.760	2.240	1.720	1.200	-	-	0.350	-
ds inv (m AD)	-	-	2.310	1.790	1.270	0.750	-	-	0.050	-
US flow (l/s)	-	-	61.79	61.78	61.77	61.77	-	-	73.95	-

Node	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ground (m AD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flood type	Lost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
level (m AD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Node	-	S130219A	S130219	S130218	S130217	S130216	S130215	S130214	S130213	-	-	-	-	-	-	-
ground (m AD)	34.100	27.102	25.620	26.070	16.000	17.150	15.600	7.700	10.423	-	-	-	-	-	-	-
Flood type	Lost	Sealed	Lost	Lost	Lost	Lost	Lost	Lost	Lost	-	Lost	Lost	Lost	-	-	-
level (m AD)	30.954	25.337	24.932	22.909	14.671	13.157	12.339	5.864	4.170	-	-	-	-	-	-	-

MWF 6m



Link	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S130220.1	-	S130219.1	S130218.1	S130217.1	-	S130215.1	S130214.1	-	-	-	-	-	-	-	-	-	-	-
width (mm)	250	250	250	-	250	-	250	-	300	300	-	-	-	250	-	-	-	-	250	250	-	250	315	250	375	375	375	375	375	375	-	-	375	375	375	375	-	-	375	375
pfc (l/s)	140	111	80	71	124	-	92	-	134	150	-	-	-	82	88	89	94	96	89	60	-	98	110	39	167	147	179	168	129	149	-	-	127	125	124	125	-	-	105	101
us inv (m AD)	-	-	-	-	-	-	55.280	-	-	-	-	-	-	-	-	-	-	-	-	34.640	-	30.800	24.730	23.520	22.750	14.500	-	12.180	5.680	-	-	-	2.760	2.240	1.720	1.200	-	-	0.350	-
ds inv (m AD)	-	-	-	-	-	-	53.000	-	-	-	-	-	-	-	-	-	-	-	-	33.680	-	24.730	23.520	22.750	14.500	13.000	-	5.680	4.000	-	-	-	2.310	1.790	1.270	0.750	-	-	0.050	-
US flow (l/s)	62.61	62.61	-	-	-	-	62.60	-	-	-	-	-	-	68.15	-	-	-	-	-	67.58	-	67.24	66.70	66.55	66.54	66.52	66.51	66.51	66.48	-	-	-	66.45	66.45	66.44	66.43	-	-	78.12	-

Node	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S130219A	S130219	S130218	S130217	S130216	S130215	S130214	S130213	-	-	-	-	-	-	-
ground (m AD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.100	27.102	25.620	26.070	16.000	17.150	15.600	7.700	10.423	-	-	-	-	-	-	-
Flood type	Lost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lost	Sealed	Lost	Lost	Lost	Lost	Lost	Lost	Lost	-	Lost	Lost	Lost	-	-	-
level (m AD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.963	25.702	25.238	22.916	14.678	13.163	12.345	5.872	4.177	-	-	-	-	-	-	-