

**Schedule B Municipal Class Environmental Assessment for a New
Treated Water Storage Facility in the Village of Lansdowne
Phase 2 Report**

Appendix A

Water Model Inputs and Results

Lansdowne Water Model Overall Schematic



Color Coding Legend	
Pipe: Diameter (mm)	
	\leq 155
	\leq 204
	Other

Node	Elevation
n1	112.47
n3	114
n4	113.69
n5	113.69
n7	113.39
n9	113.08
n12	114.3
n13	113.39
n14	113.39
n16	114.91
n18	114.91
n19	114.91
n22	113.08
n24	114.91
n26	114.6
n27	115.21
n28	114.6
n29	114.6
n33	114.3
n34	112.47
n35	111.86
n36	106.07
n37	105.16
n39	101.5
n42	112.78
n44	112.47
n45	114.3
n46	113.69
n47	106.68
n48	105.16
n50	103.63
n53	112.78
n55	104.85
n58	102.41
n61	103.63
n62	103.02
n63	103.02
n67	101.8
n68	102.72
n70	100.89
n74	103.02
n75	103.02
n79	100.58
n81	112.78
n82	112.78
n83	112.78
n84	113.39
n85	115
n87	113
n100	113
n101	102
n102	100
n103	99
n104	101
n105	108
n106	112.82
n107	110
n108	110
n109	112.51
n110	112.95
n111	101.58
n112	101
n113	100
n114	100
n115	100.93
n116	100.46
n117	110

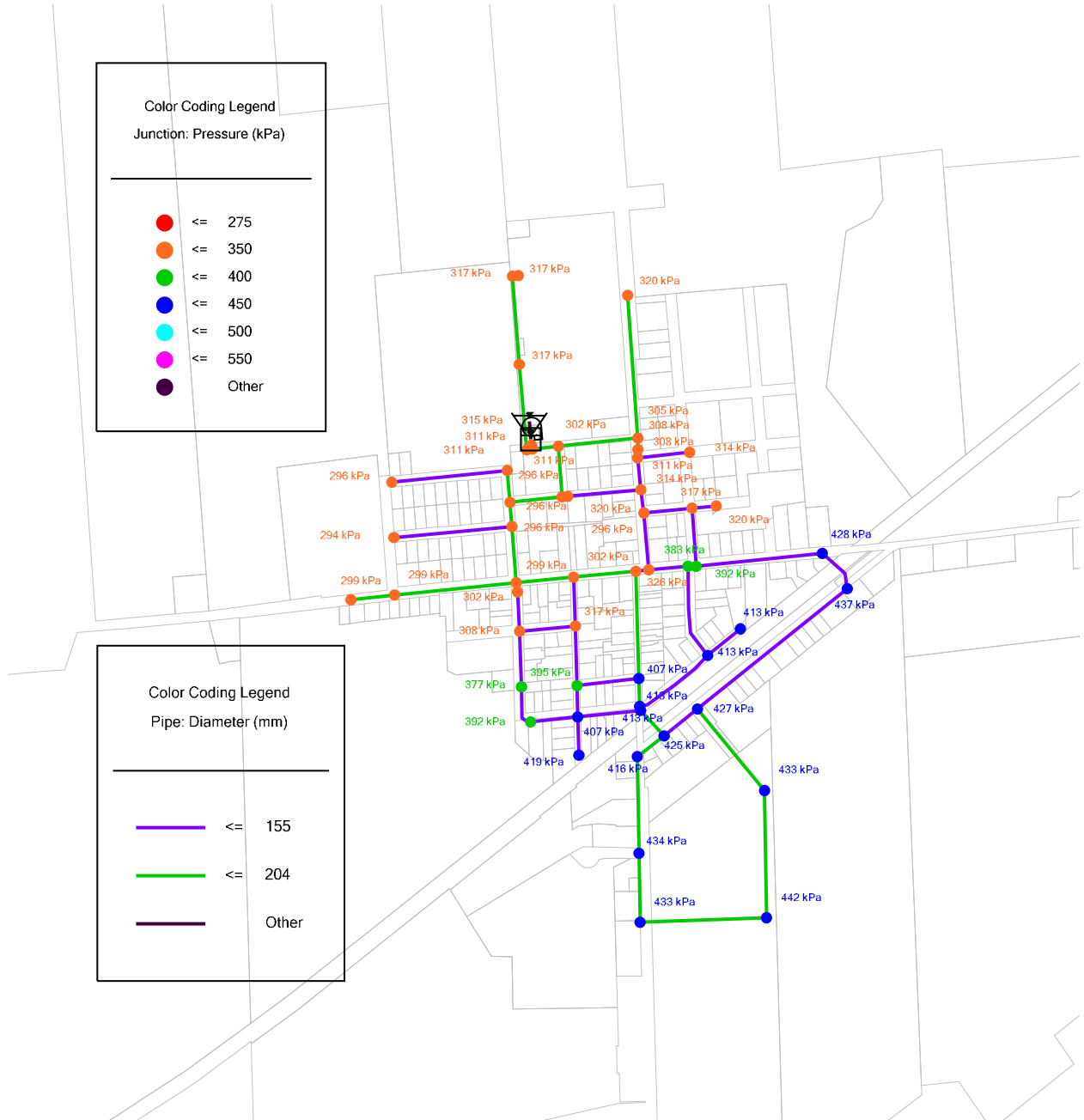
Node	Total Avg Demand (L/s)	Total Max Demand (L/s)	Total Peak Demand (L/s)
n1	0.0239	0.0548	0.0821
n3	0.0398	0.0913	0.1369
n4	0.0159	0.0365	0.0548
n5	0.0439	0.1005	0.1508
n7	0.0239	0.0548	0.0821
n9	0.0239	0.0548	0.0821
n12	0.0477	0.1095	0.1643
n13	0.0080	0.0183	0.0274
n14	0.0080	0.0183	0.0274
n16	0.0804	0.1843	0.2765
n18	0.0716	0.1643	0.2464
n19	0.0598	0.1370	0.2055
n22	0.0398	0.0913	0.1369
n24	0.0159	0.0365	0.0548
n26	0.1450	0.3322	0.4982
n27	0.0477	0.1095	0.1643
n28	0.0318	0.0730	0.1095
n29	0.0239	0.0548	0.0821
n33	0.0677	0.1553	0.2329
n34	0.0239	0.0548	0.0821
n35	0.0557	0.1278	0.1917
n36	0.0398	0.0913	0.1369
n37	0.0677	0.1553	0.2329
n39	0.1034	0.2373	0.3559
n42	0.0318	0.0730	0.1095
n44	0.0318	0.0730	0.1095
n45	0.0477	0.1095	0.1643
n46	0.0477	0.1095	0.1643
n47	0.0398	0.0913	0.1369
n48	0.0636	0.1460	0.2190
n50	0.1154	0.2648	0.3972
n53	0.1052	0.2413	0.3619
n55	0.0716	0.1643	0.2464
n58	0.0159	0.0365	0.0548
n61	0.0955	0.2190	0.3286
n62	0.0318	0.0730	0.1095
n63	0.0636	0.1460	0.2190
n67	0.1314	0.3013	0.4520
n68	0.0477	0.1095	0.1643
n70	0.0477	0.1095	0.1643
n74	0.0875	0.2008	0.3012
n75	0.0318	0.0730	0.1095
n79	0.0796	0.1825	0.2738
n81	0.0080	0.0183	0.0274
n82	0.0159	0.0365	0.0548
n83	0.0239	0.0548	0.0821
n84	0.0080	0.0183	0.0274
n85	0.0398	0.0913	0.1369
n87	0.0239	0.0548	0.0821
n113	0.7389	1.6921	2.5381

Node	Total Avg Demand (L/s)	Total Max Demand (L/s)	Total Peak Demand (L/s)
n1	0.0239	0.0548	0.0821
n3	0.0398	0.0913	0.1369
n4	0.0159	0.0365	0.0548
n5	0.1330	0.3046	0.4569
n7	0.0239	0.0548	0.0821
n9	0.0239	0.0548	0.0821
n12	0.0477	0.1095	0.1643
n13	0.0080	0.0183	0.0274
n14	0.0080	0.0183	0.0274
n16	0.1290	0.2957	0.4435
n18	0.0716	0.1643	0.2464
n19	0.1489	0.3411	0.5117
n22	0.0398	0.0913	0.1369
n24	0.0159	0.0365	0.0548
n26	0.1450	0.3322	0.4982
n27	0.0477	0.1095	0.1643
n28	0.0318	0.0730	0.1095
n29	0.0239	0.0548	0.0821
n33	0.1568	0.3594	0.5391
n34	0.0239	0.0548	0.0821
n35	0.0557	0.1278	0.1917
n36	0.0398	0.0913	0.1369
n37	0.1568	0.3594	0.5391
n39	0.1034	0.2373	0.3559
n42	0.0318	0.0730	0.1095
n44	0.0318	0.0730	0.1095
n45	0.0477	0.1095	0.1643
n46	0.0477	0.1095	0.1643
n47	0.0398	0.0913	0.1369
n48	0.0636	0.1460	0.2190
n50	0.2046	0.4689	0.7033
n53	0.1052	0.2413	0.3619
n55	0.0716	0.1643	0.2464
n58	0.0159	0.0365	0.0548
n61	0.0955	0.2190	0.3286
n62	0.0318	0.0730	0.1095
n63	0.0636	0.1460	0.2190
n67	0.2205	0.5054	0.7581
n68	0.0477	0.1095	0.1643
n70	0.0477	0.1095	0.1643
n74	0.0875	0.2008	0.3012
n75	0.0318	0.0730	0.1095
n79	0.0796	0.1825	0.2738
n81	0.0080	0.0183	0.0274
n82	0.0159	0.0365	0.0548
n83	0.0239	0.0548	0.0821
n84	0.0080	0.0183	0.0274
n85	0.0398	0.0913	0.1369
n87	0.0239	0.0548	0.0821
n101	0.4861	1.1132	1.6698
n103	6.0746	13.9108	20.8661
n105	0.6611	1.5139	2.2709
n106	0.1880	0.4304	0.6457
n108	0.2106	0.4824	0.7236
n113	0.7389	1.6921	2.5381
n114	1.8083	4.1411	6.2116
n115	0.9479	2.1707	3.2561

Lansdowne Water Model

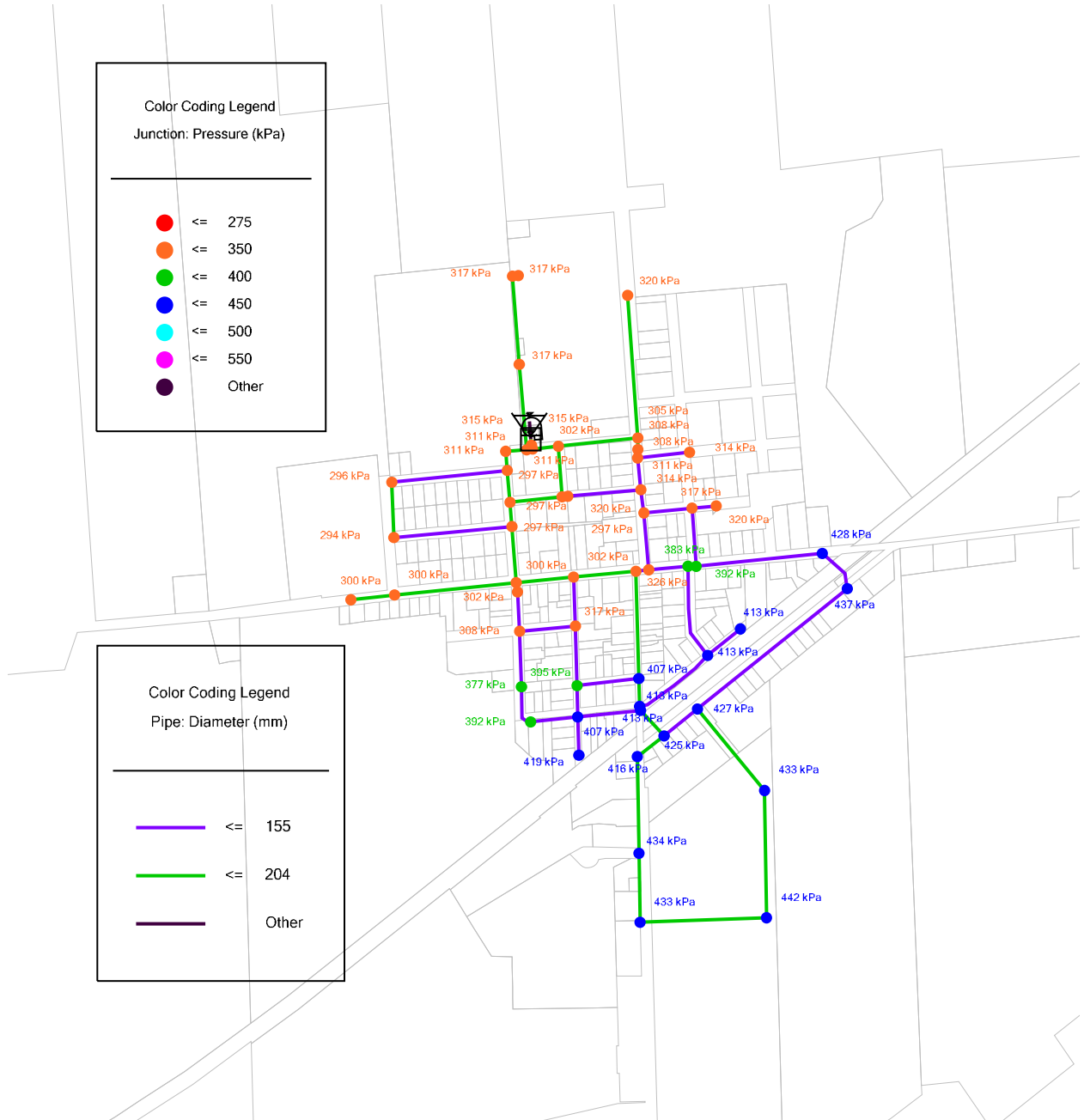
Short-Term Average Day Demand

No Upgrades



Lansdowne Water Model

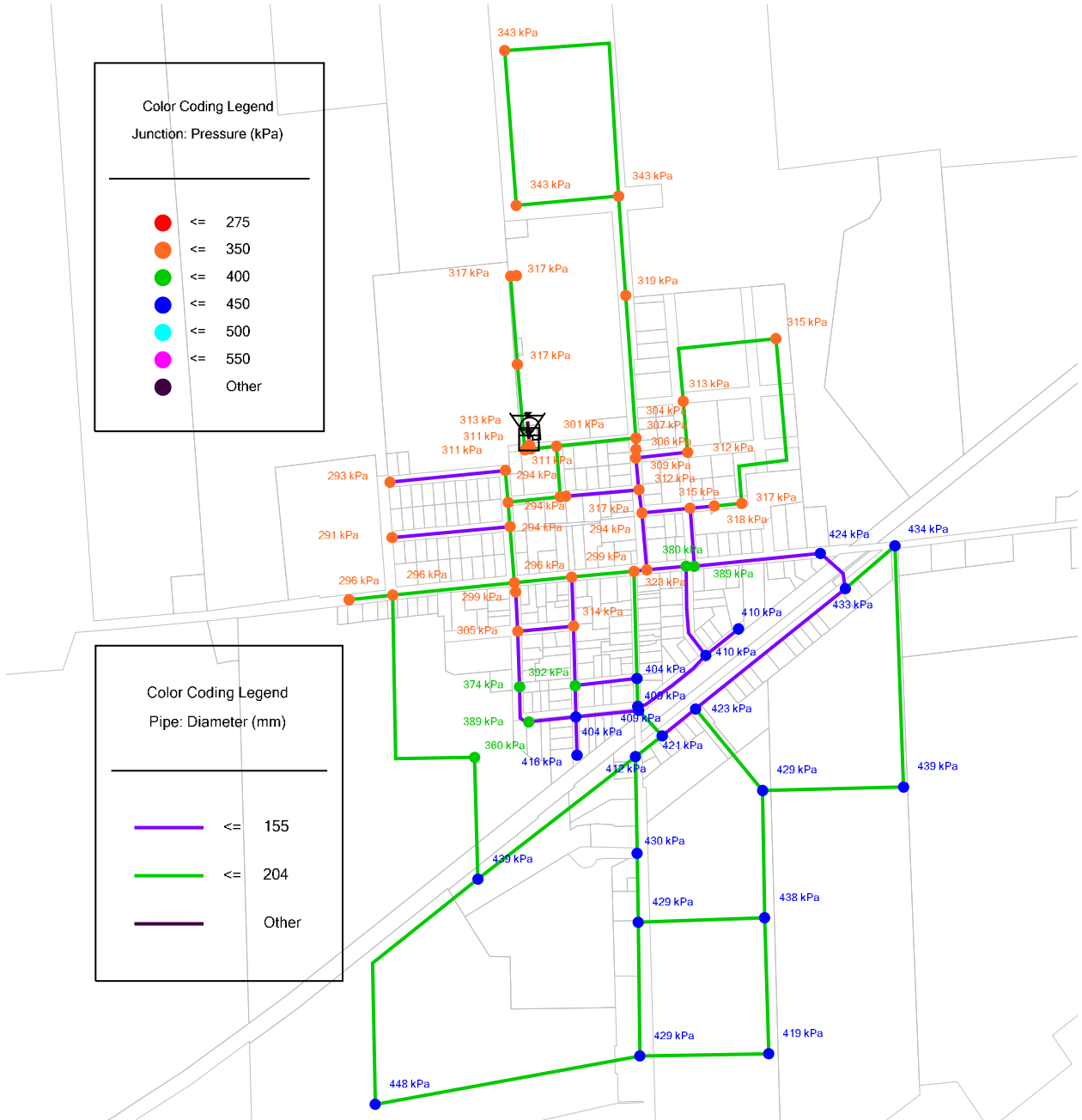
Short-Term Average Day Demand With Upgrades



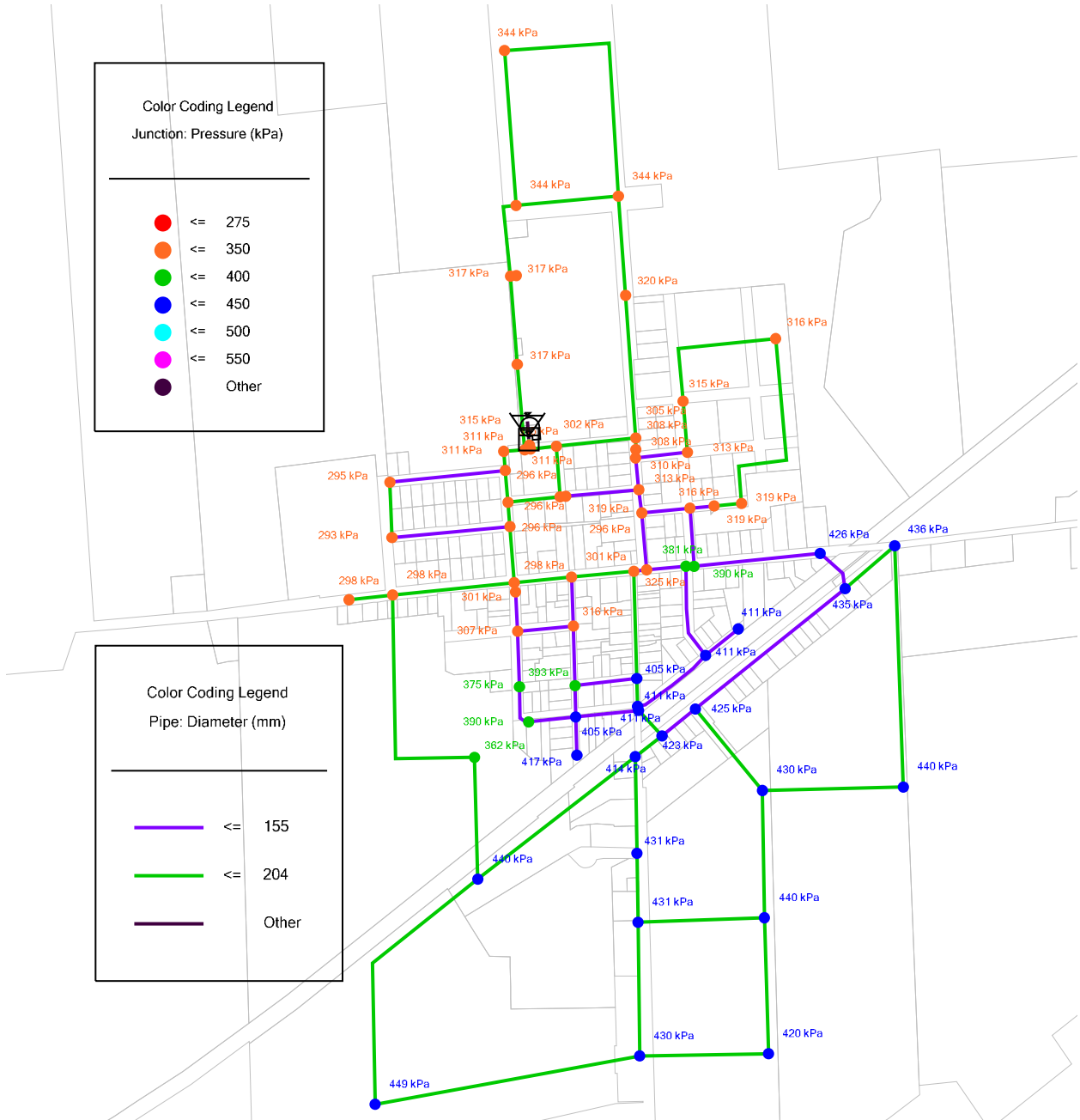
Lansdowne Water Model

Long-Term Average Day Demand

No Upgrades



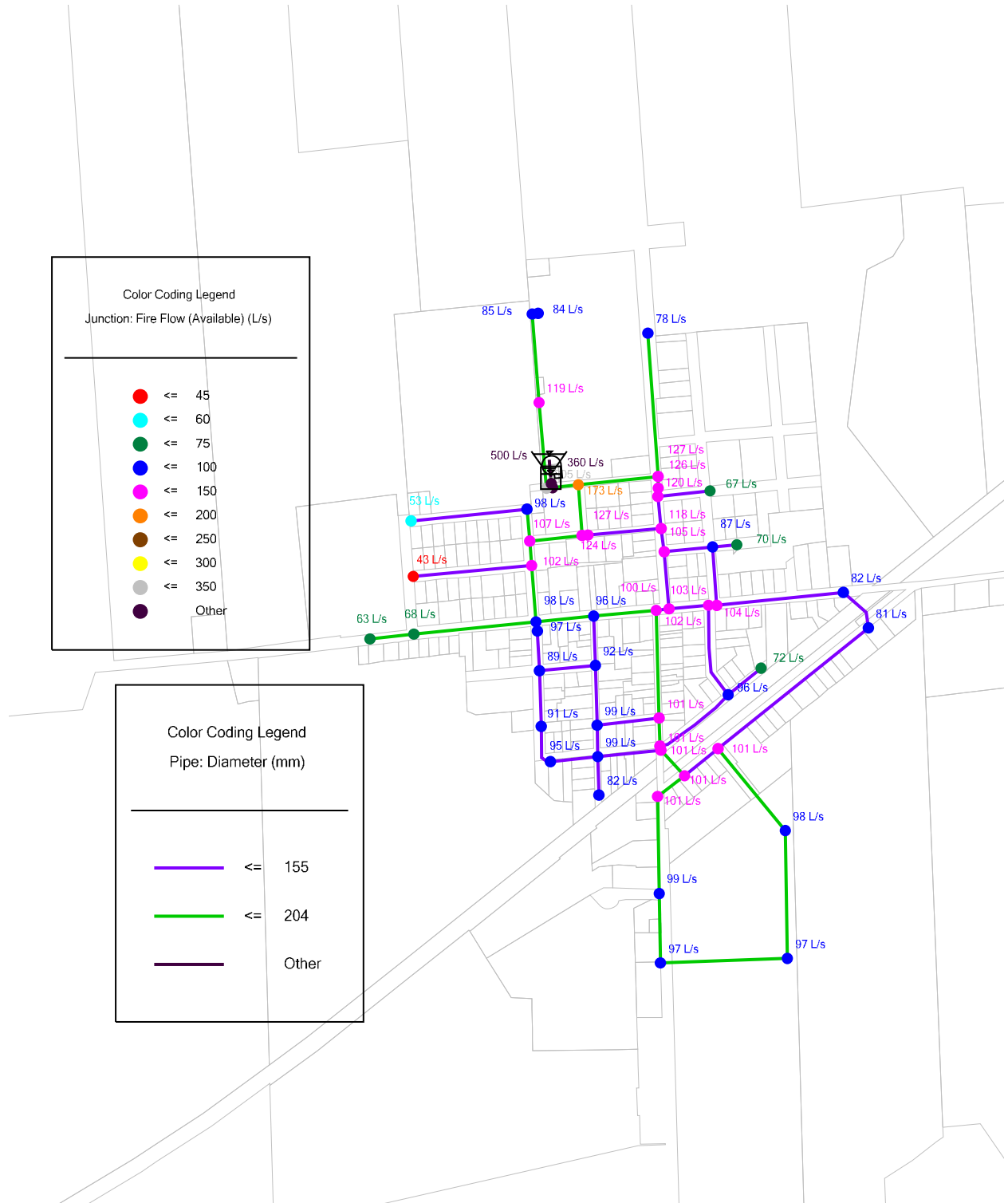
Lansdowne Water Model Long-Term Average Day Demand With Upgrades



Lansdowne Water Model

Short-Term Maximum Day Demand + Fire Flow

No Upgrades



Lansdowne Water Model

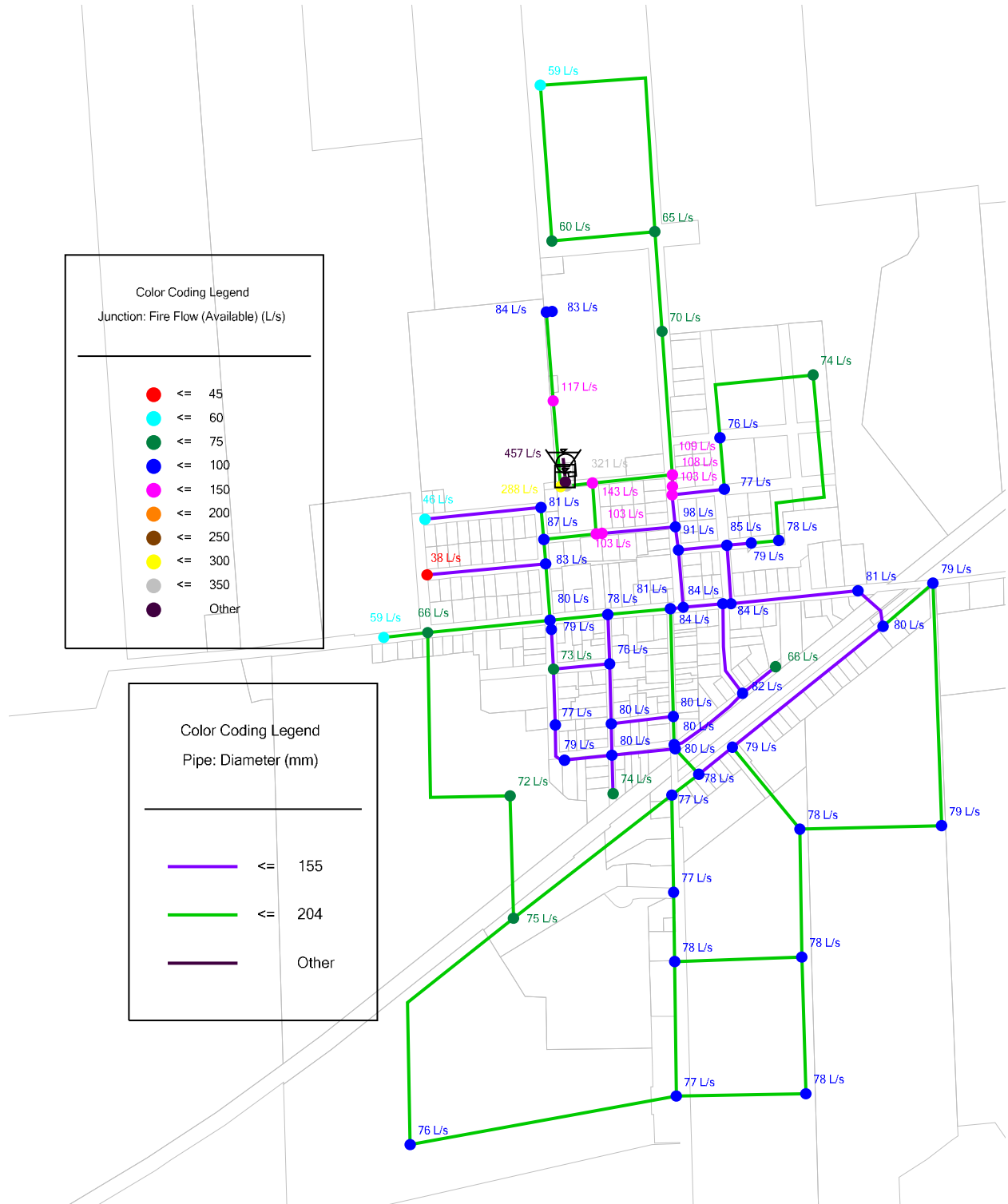
Short-Term Maximum Day Demand + Fire Flow With Upgrades



Lansdowne Water Model

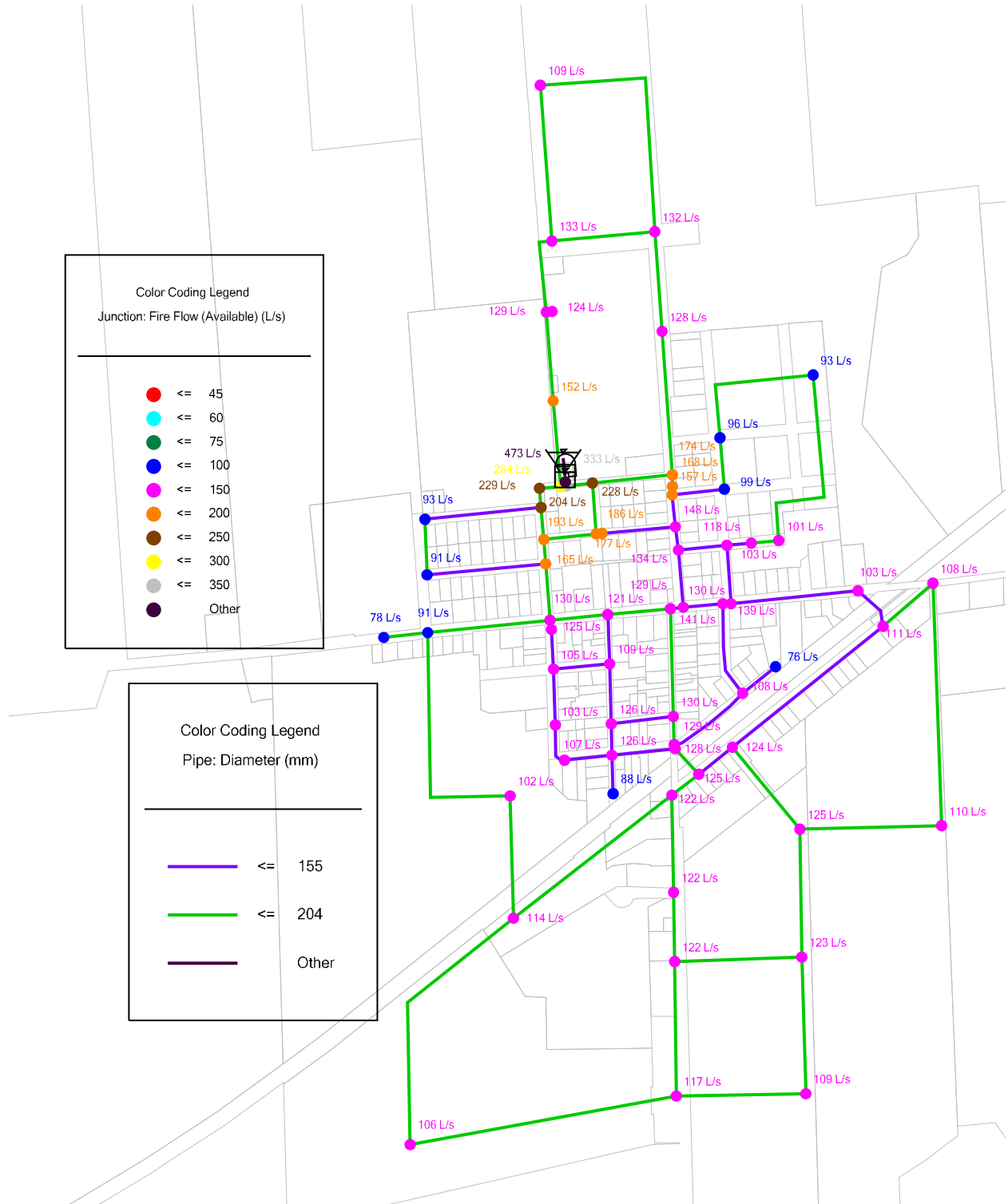
Long-Term Maximum Day Demand + Fire Flow

No Upgrades



Lansdowne Water Model

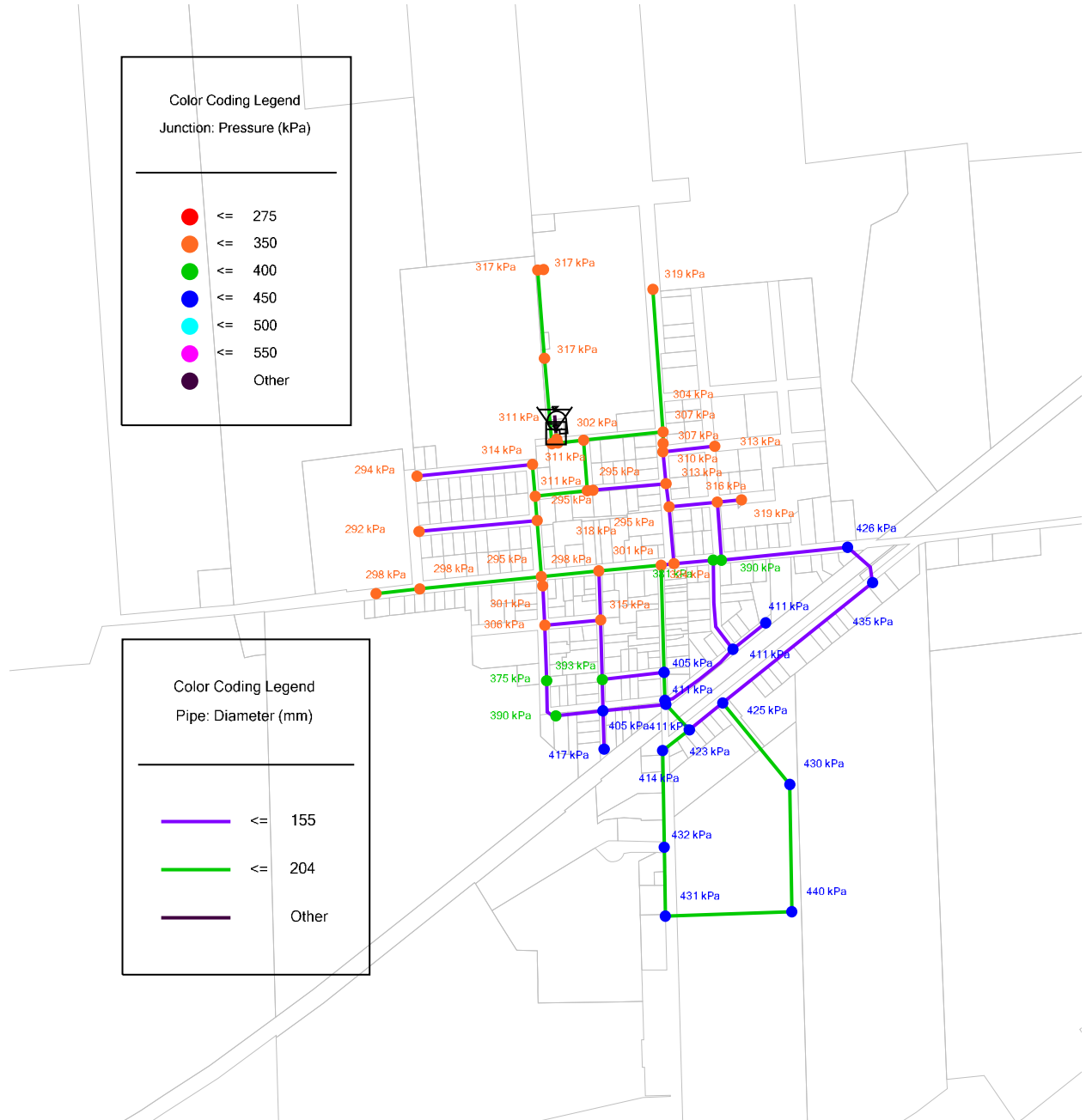
Long-Term Maximum Day Demand + Fire Flow With Upgrades



Lansdowne Water Model

Short-Term Peak Hour Demand

No Upgrades



Lansdowne Water Model

Short-Term Peak Hour Demand

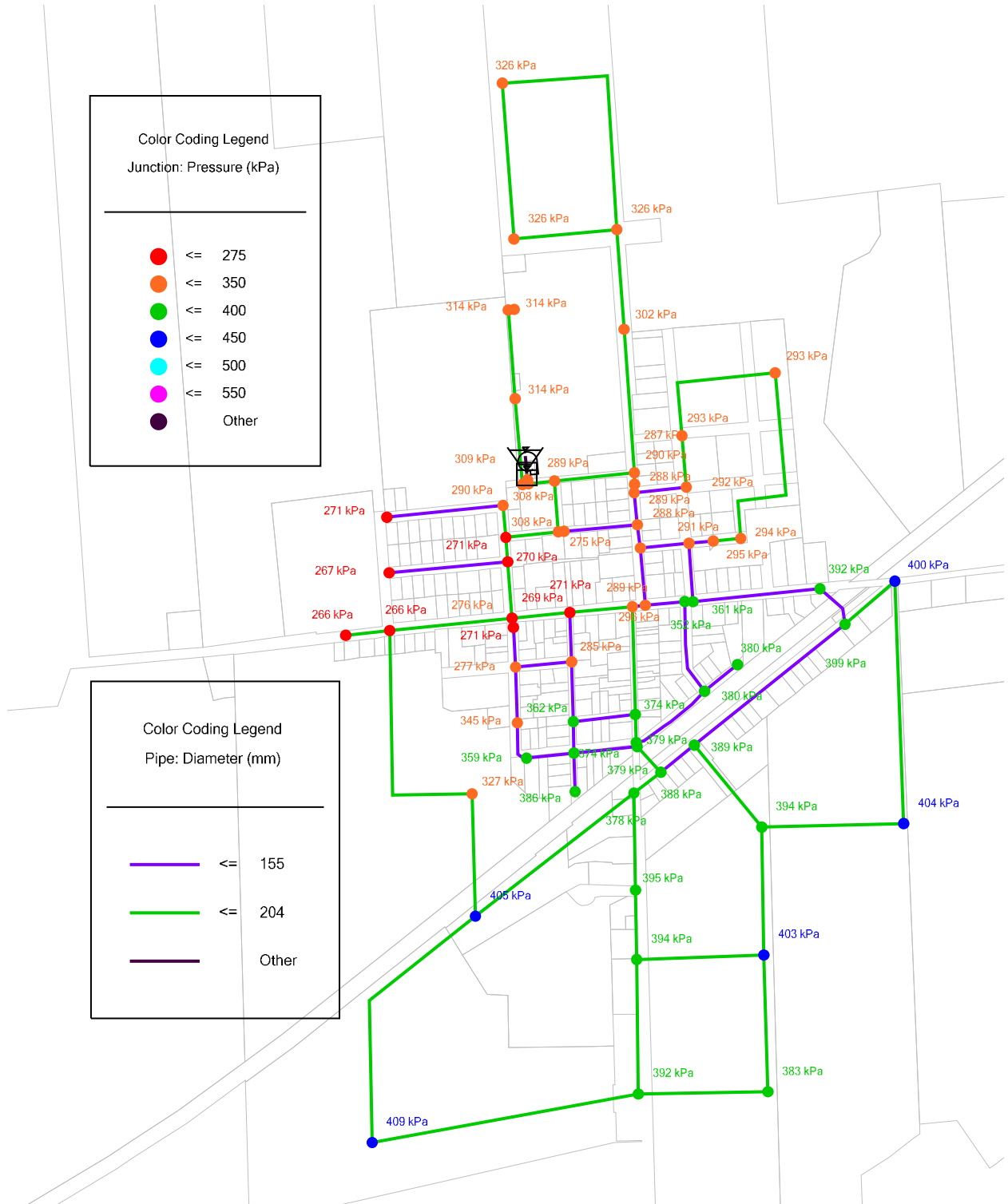
With Upgrades



Lansdowne Water Model

Long-Term Peak Hour Demand

No Upgrades



Lansdowne Water Model Long-Term Peak Hour Demand With Upgrades

