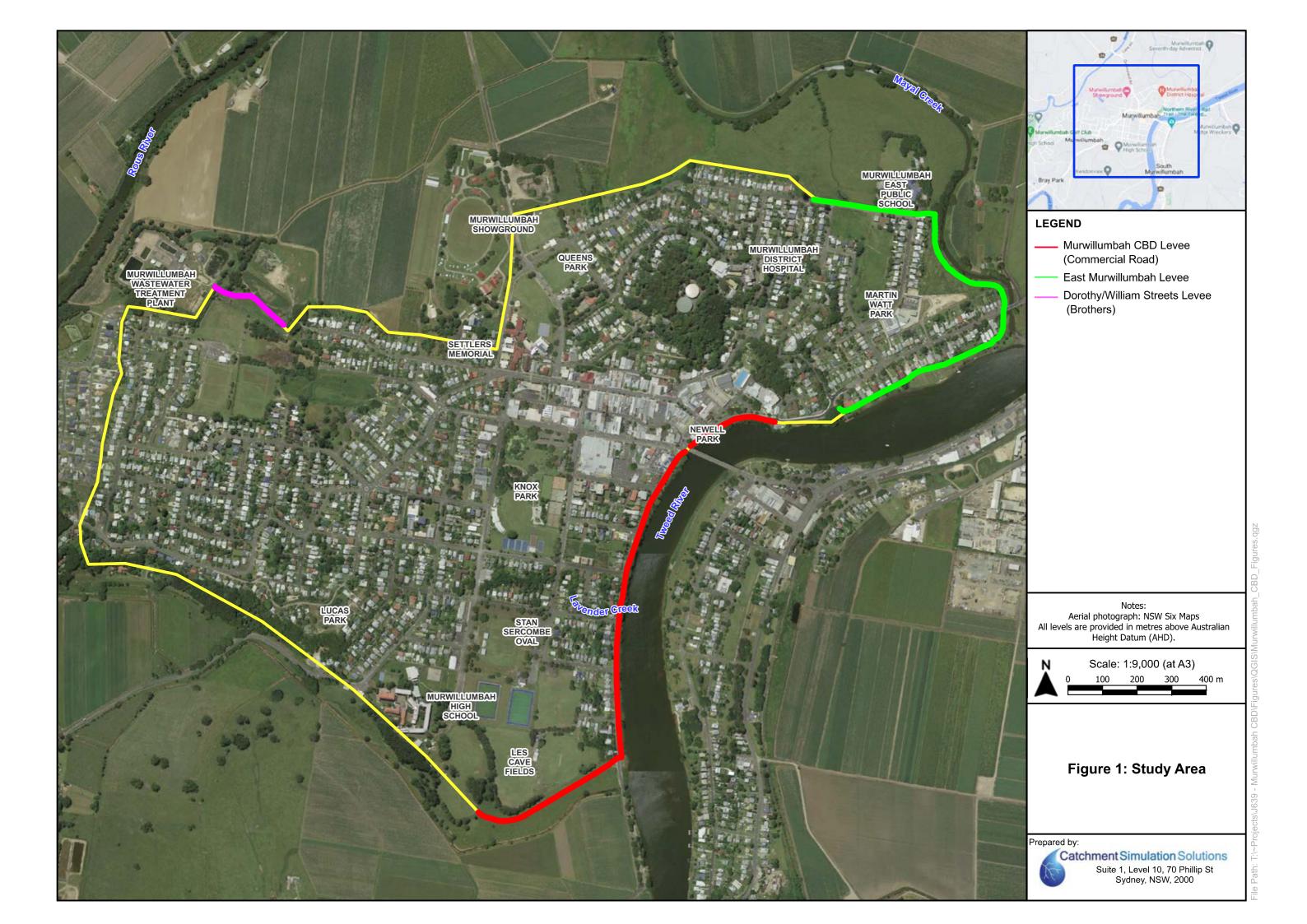
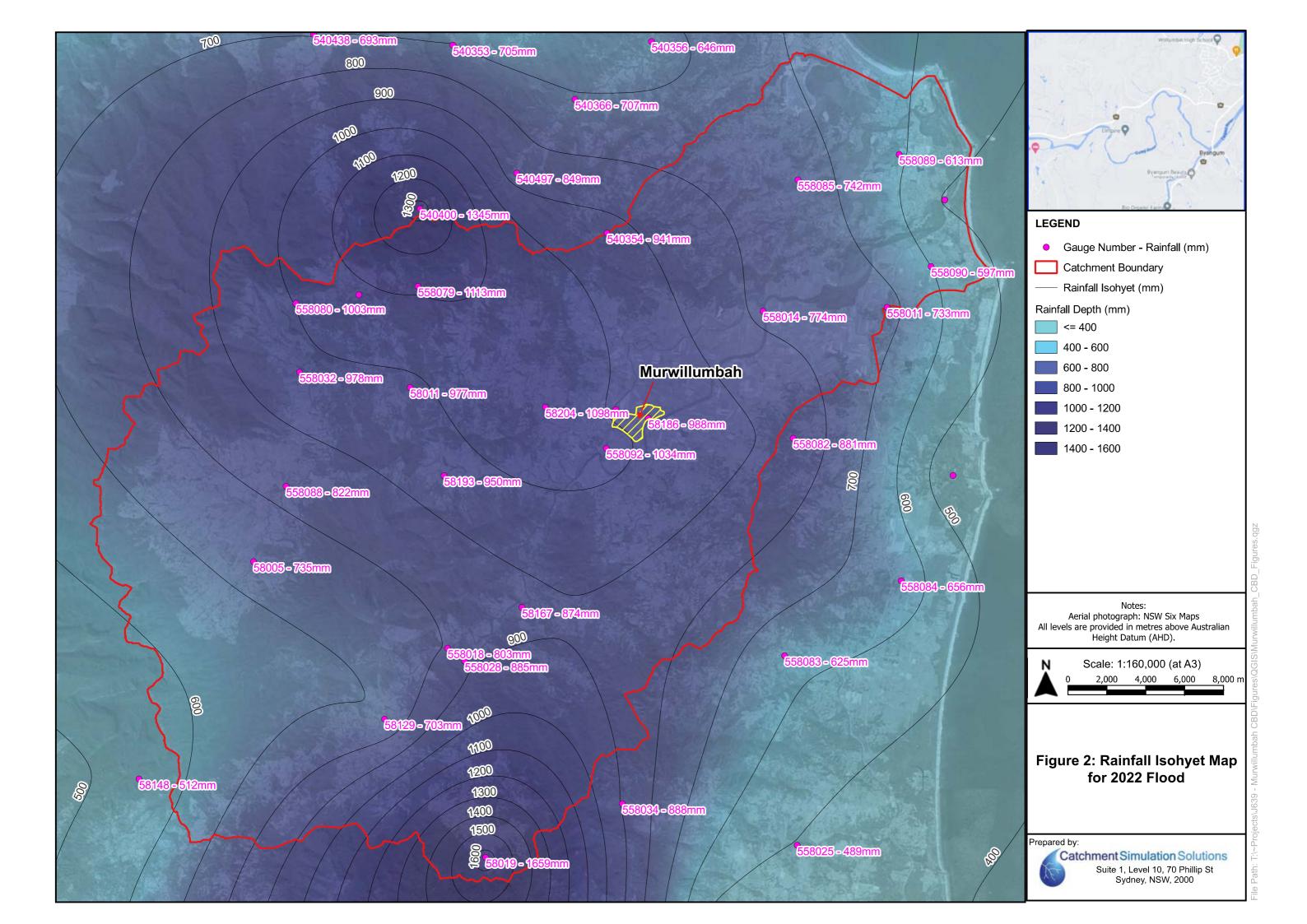
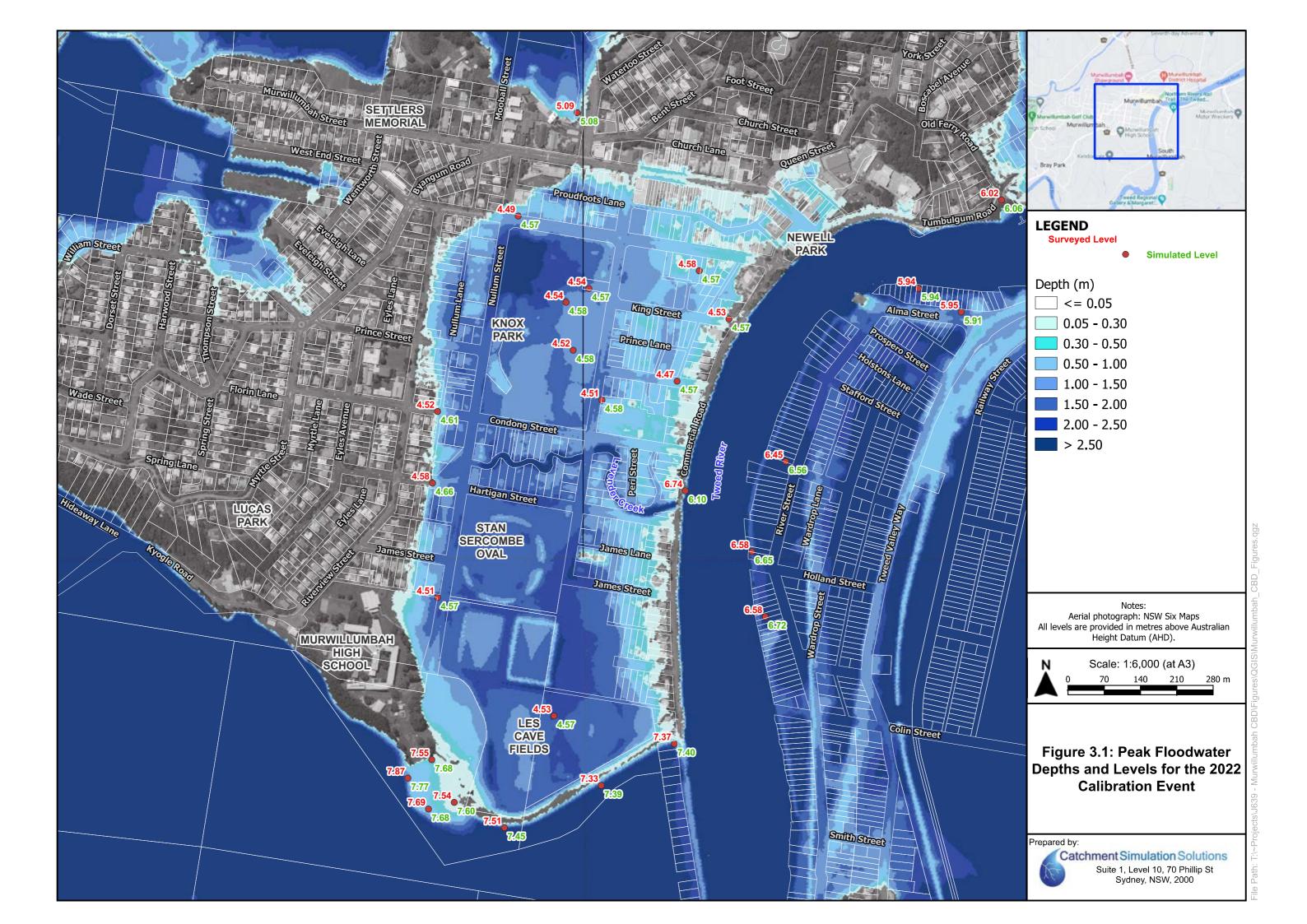
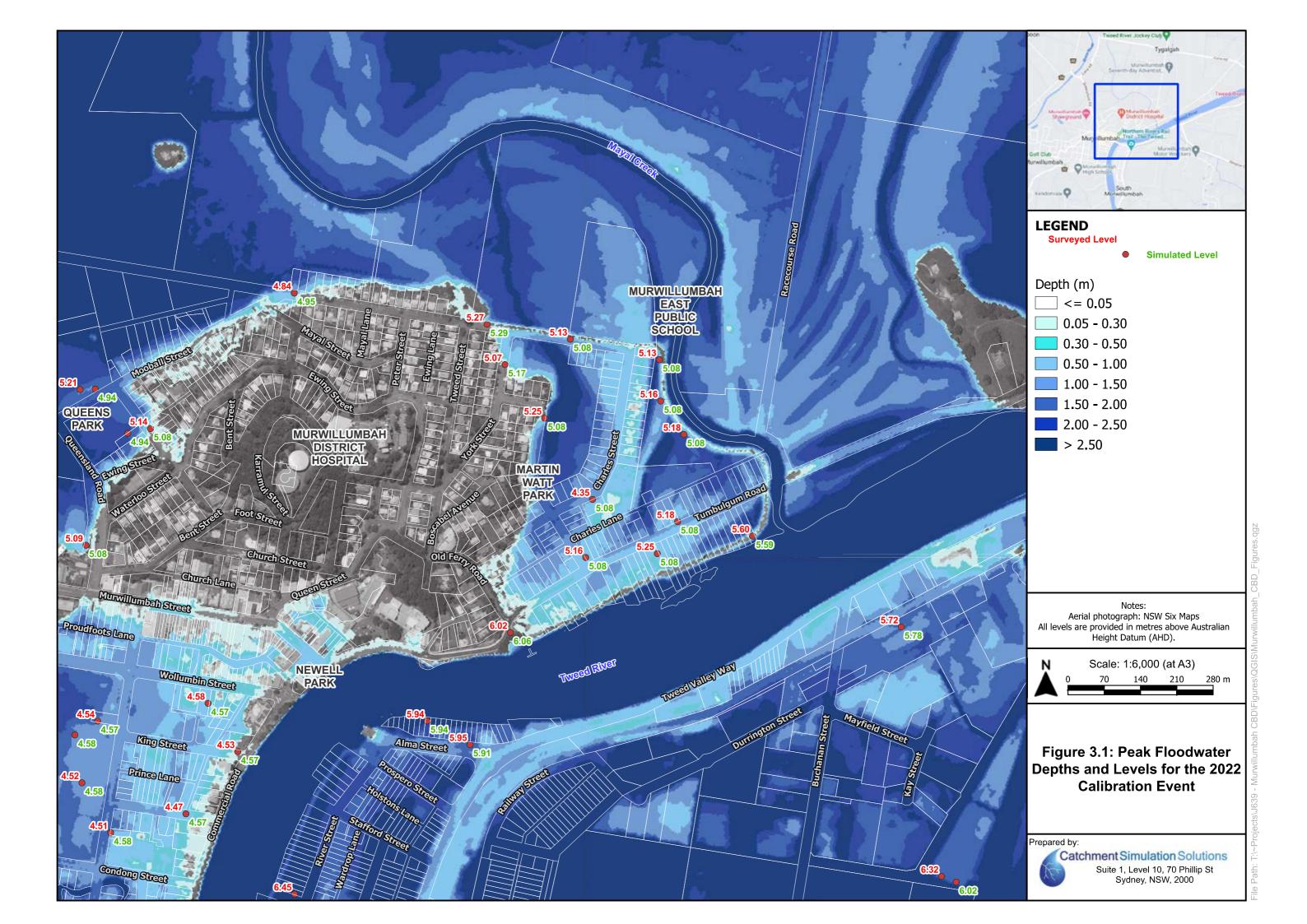


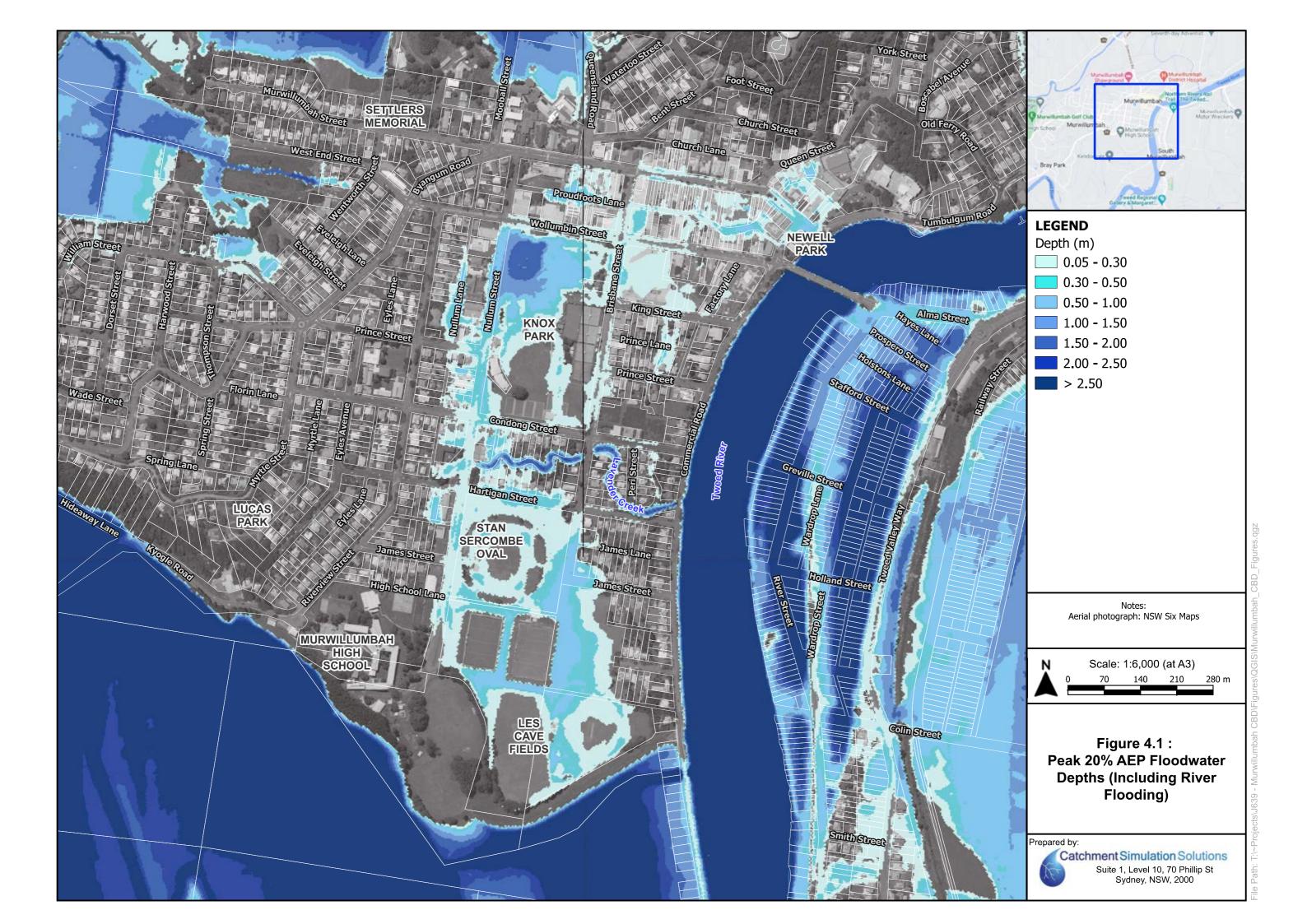
**FIGURES** 

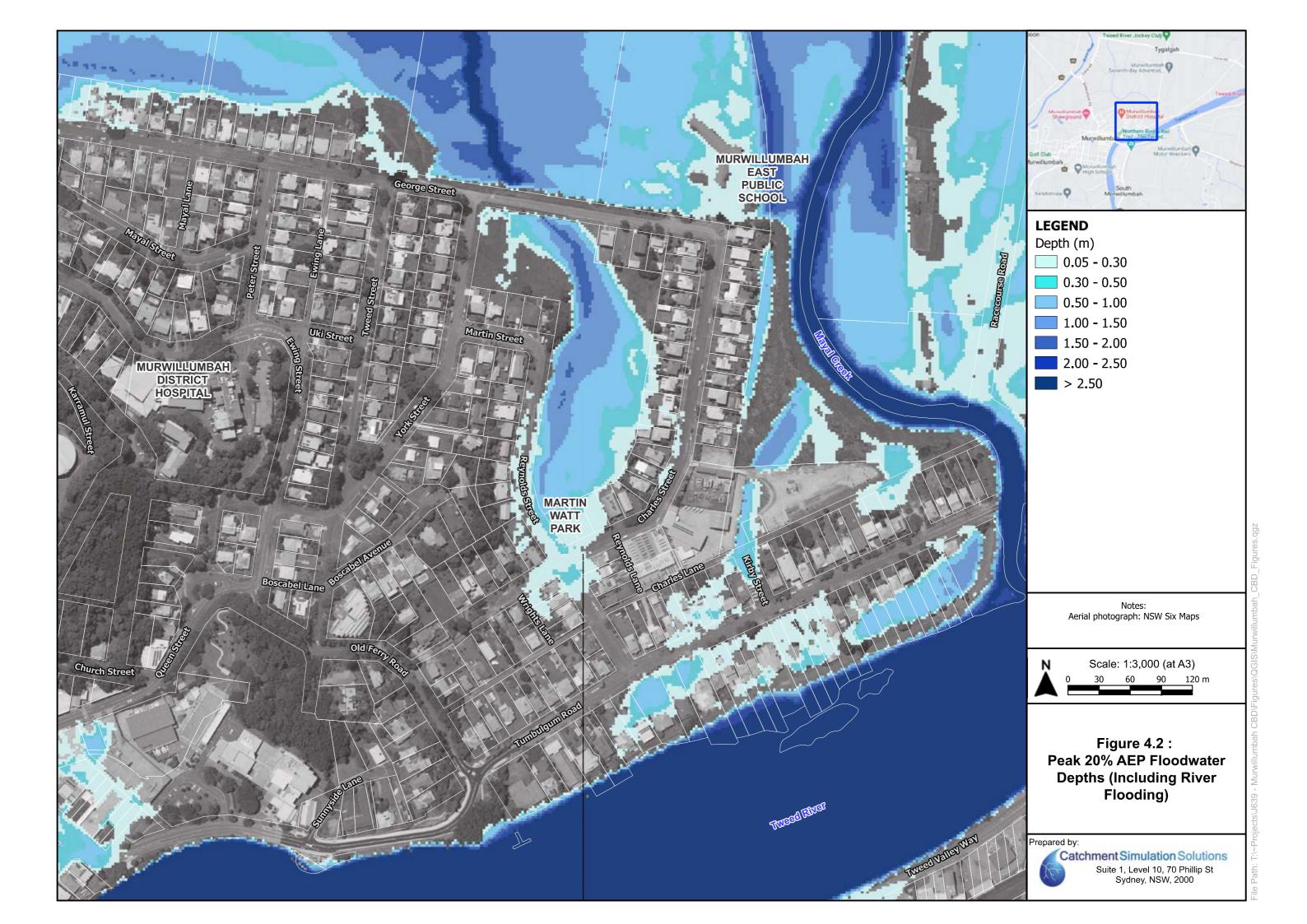


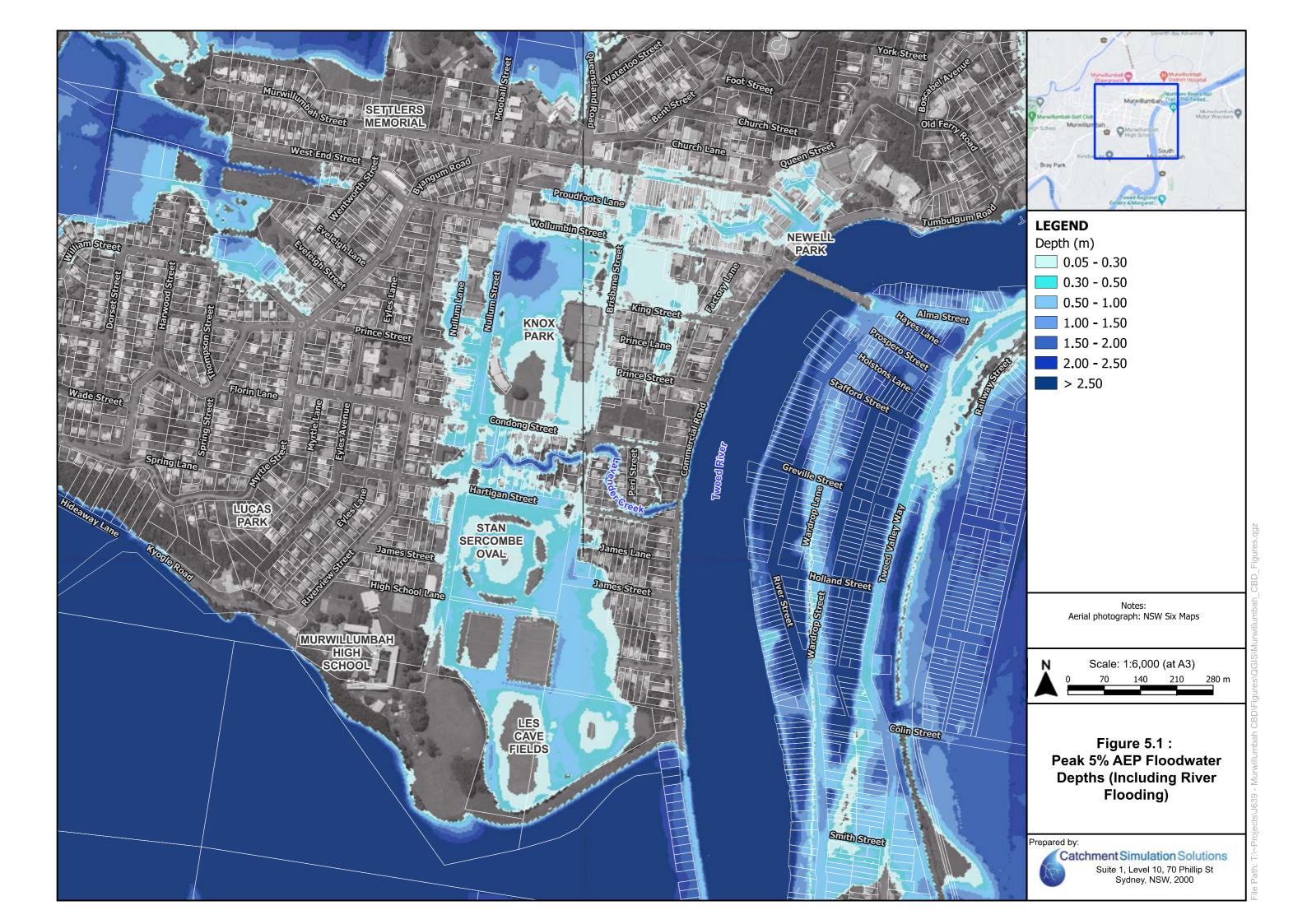


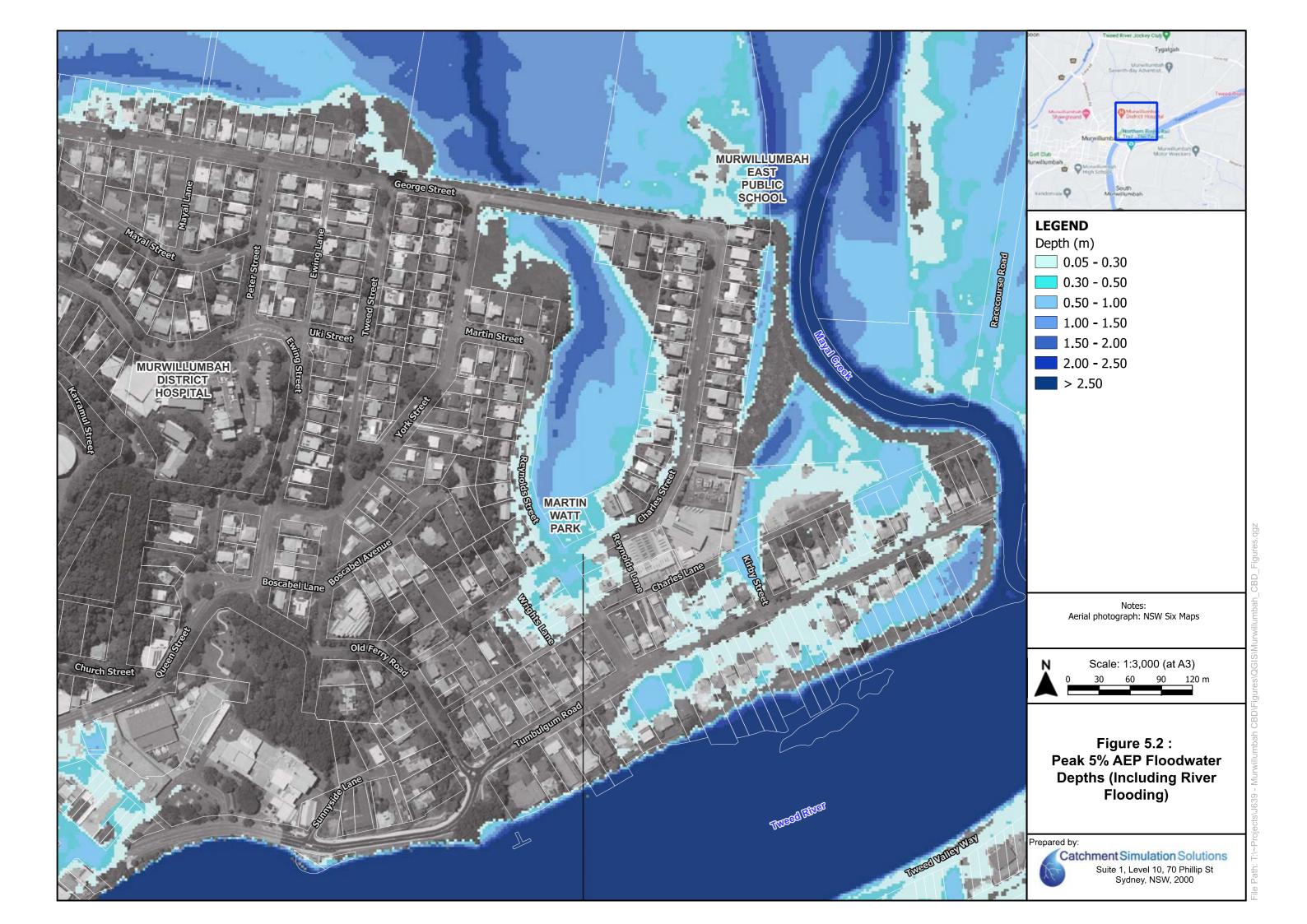


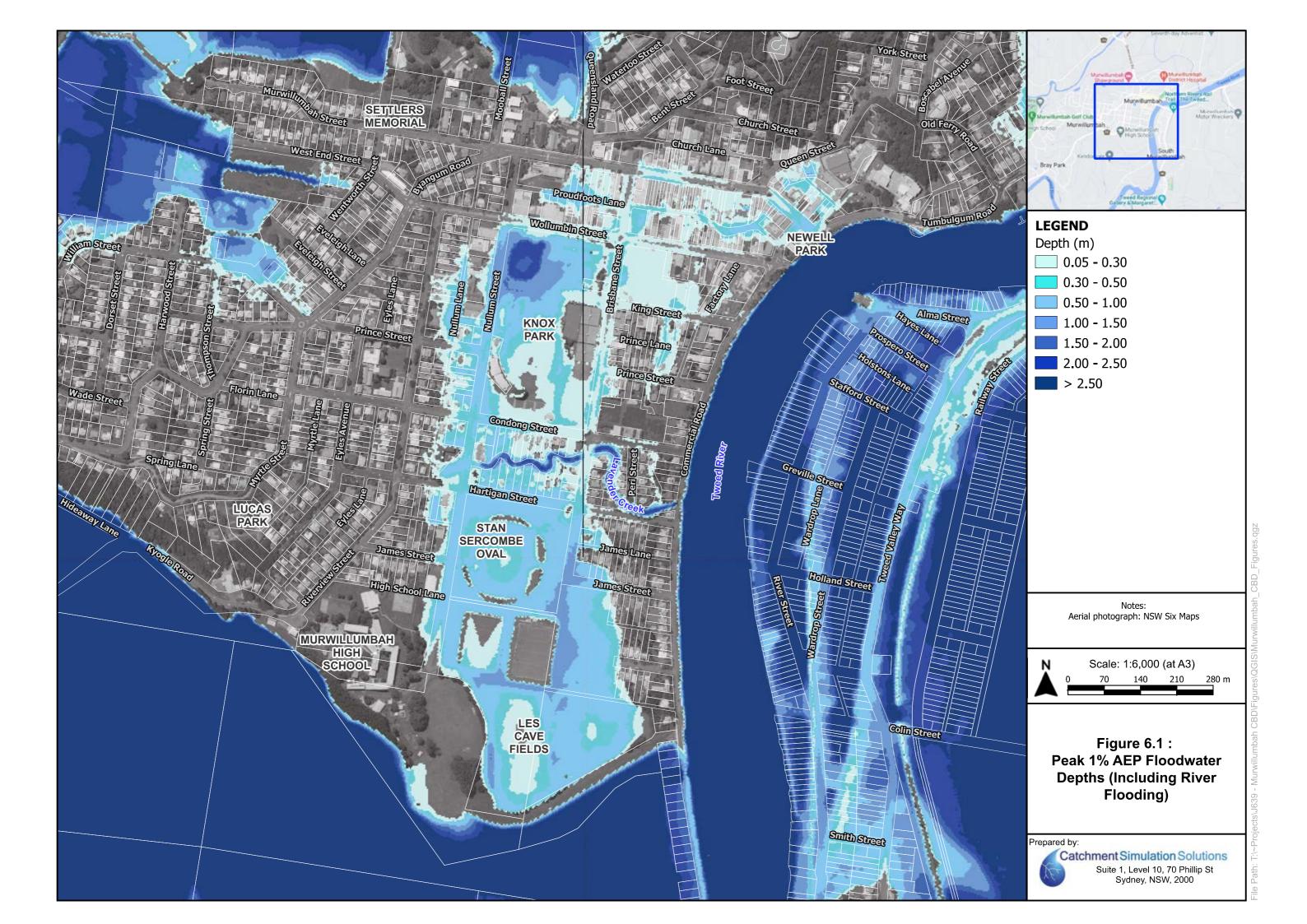


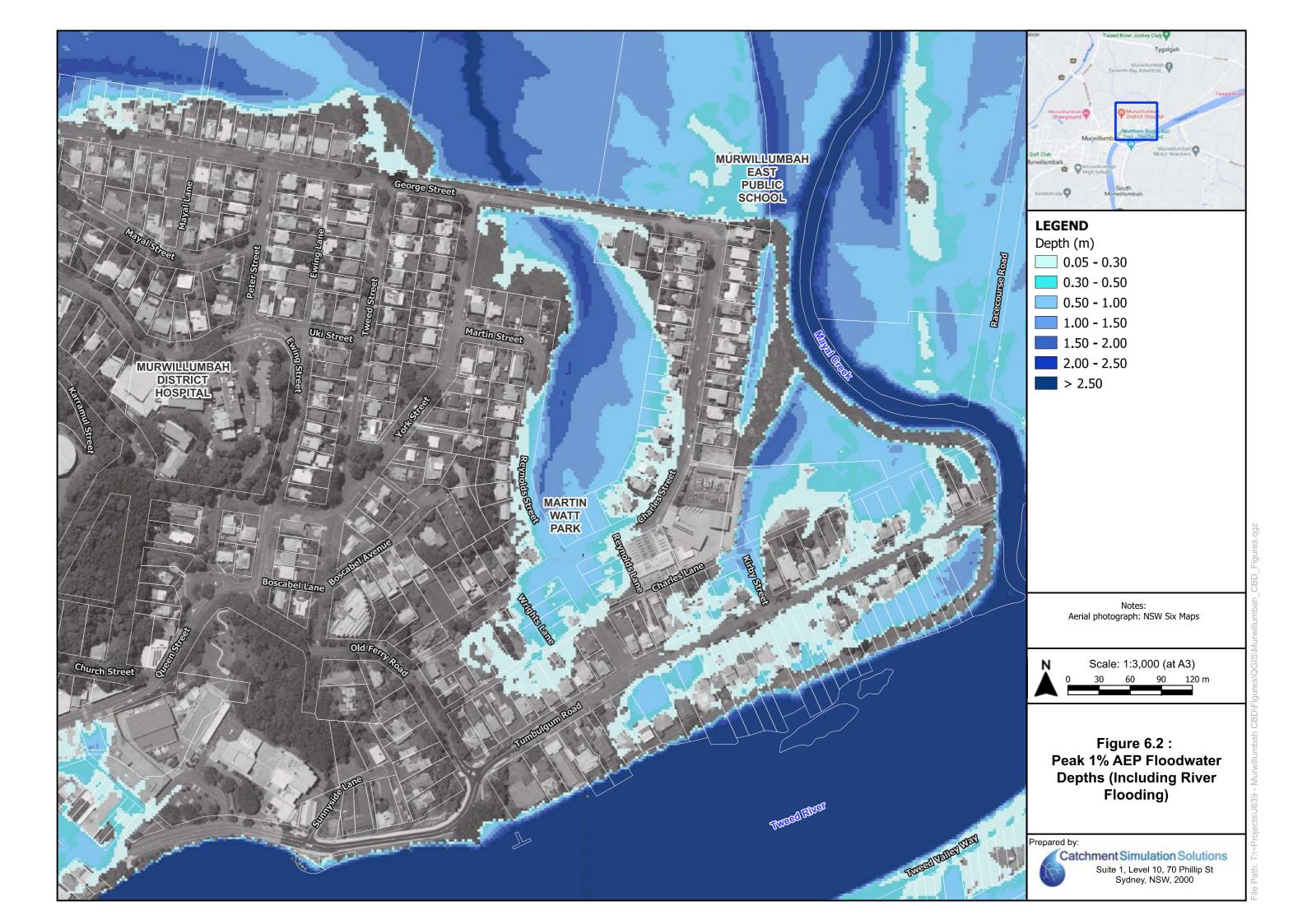


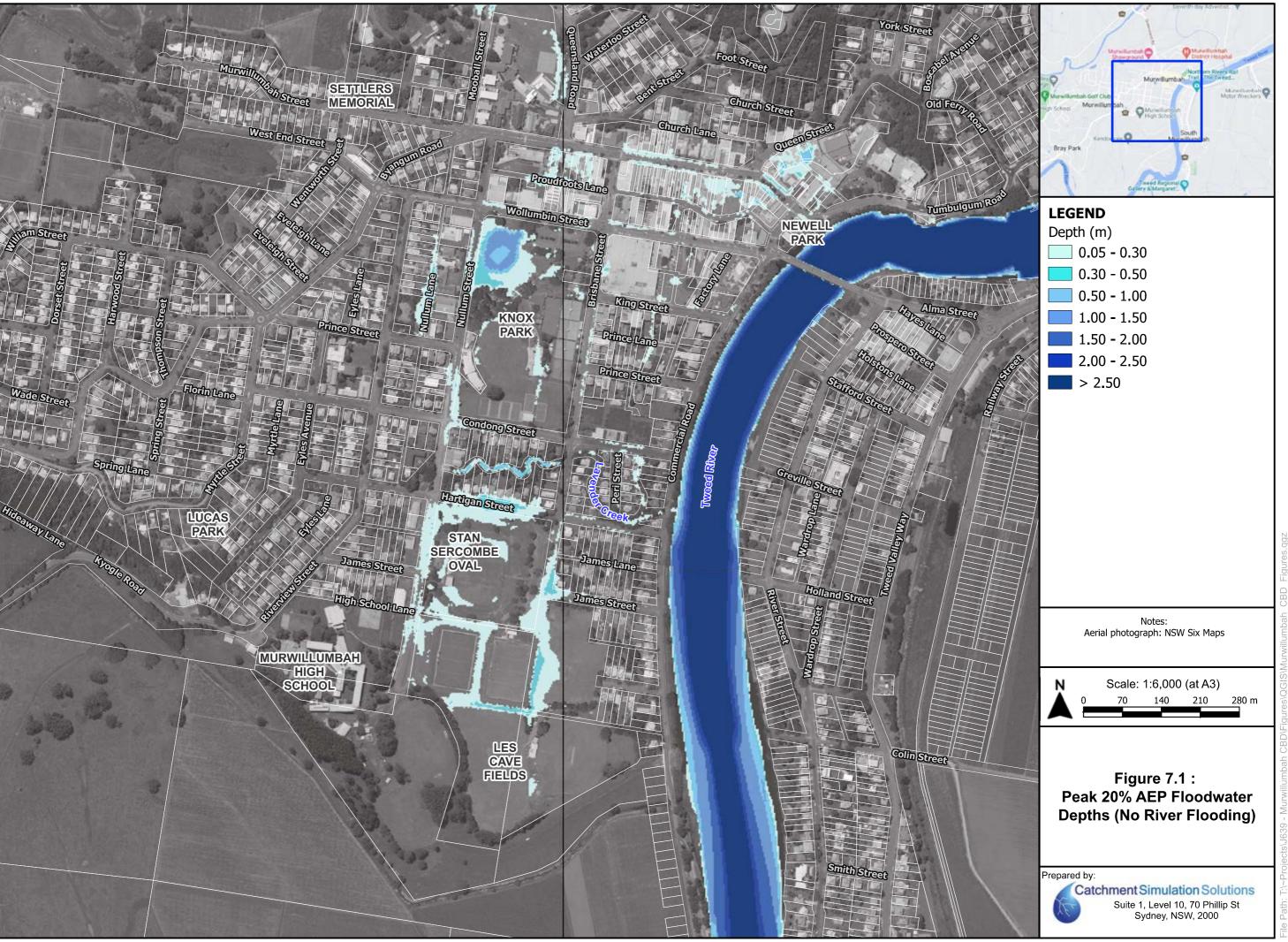


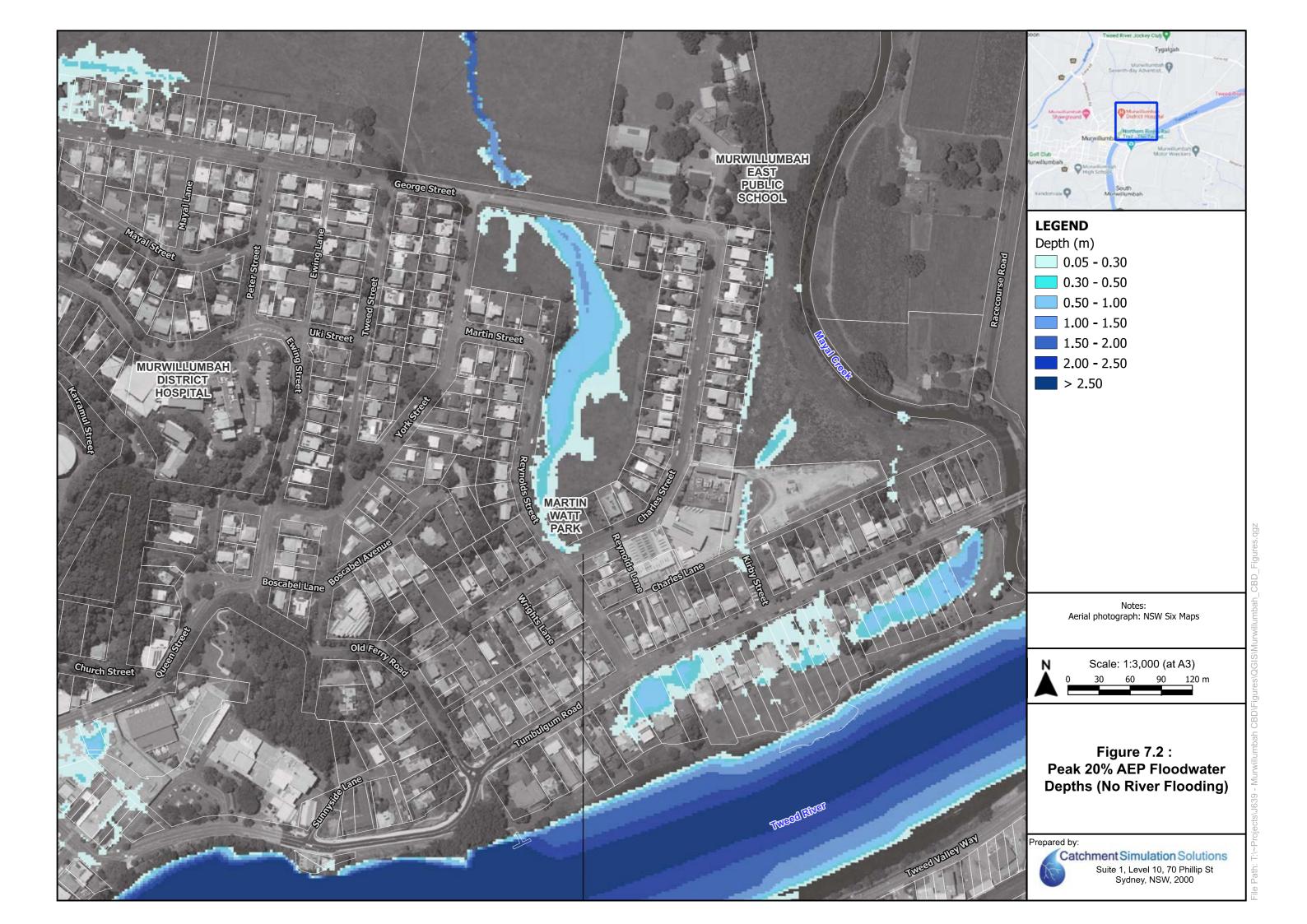


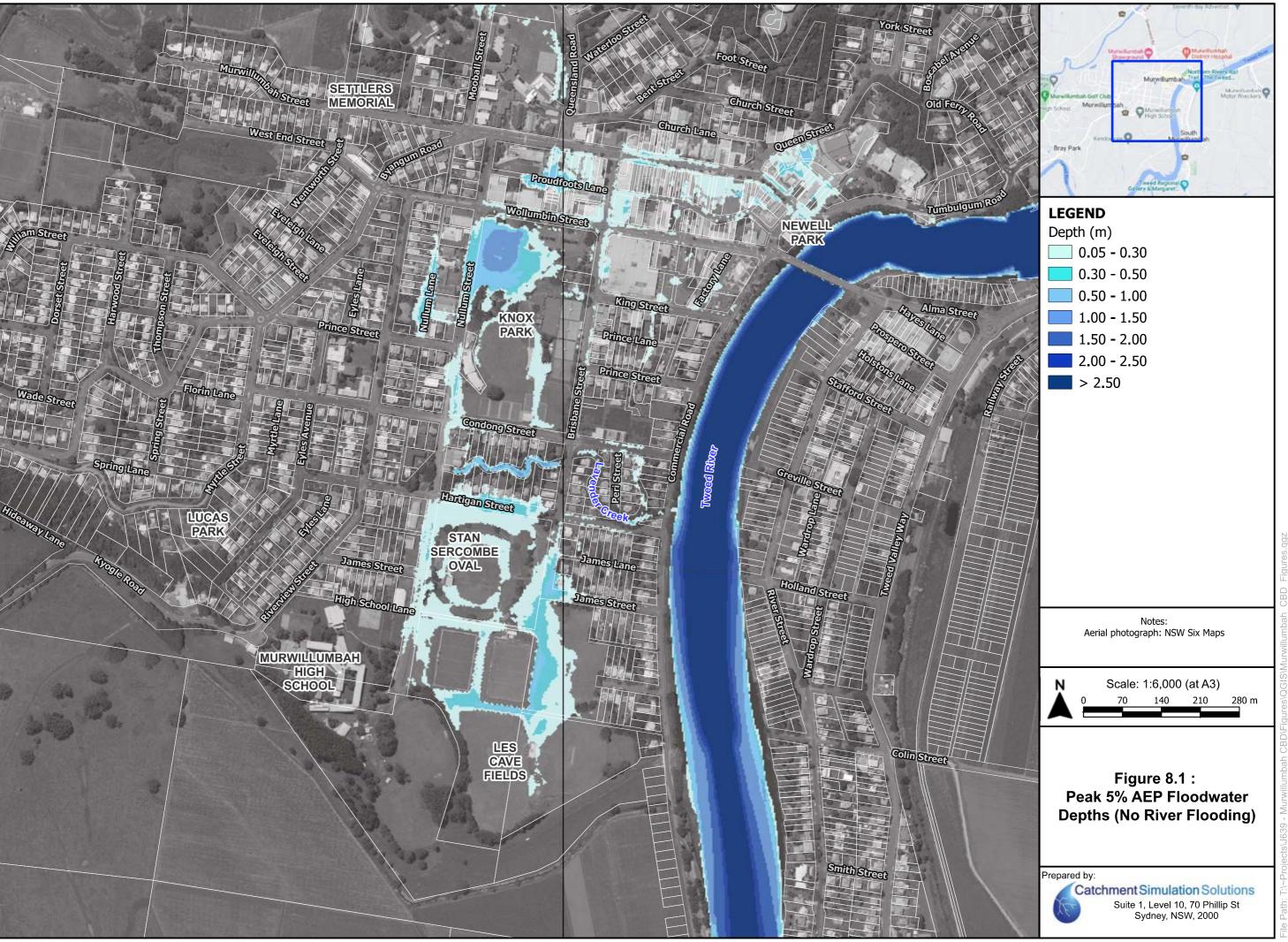


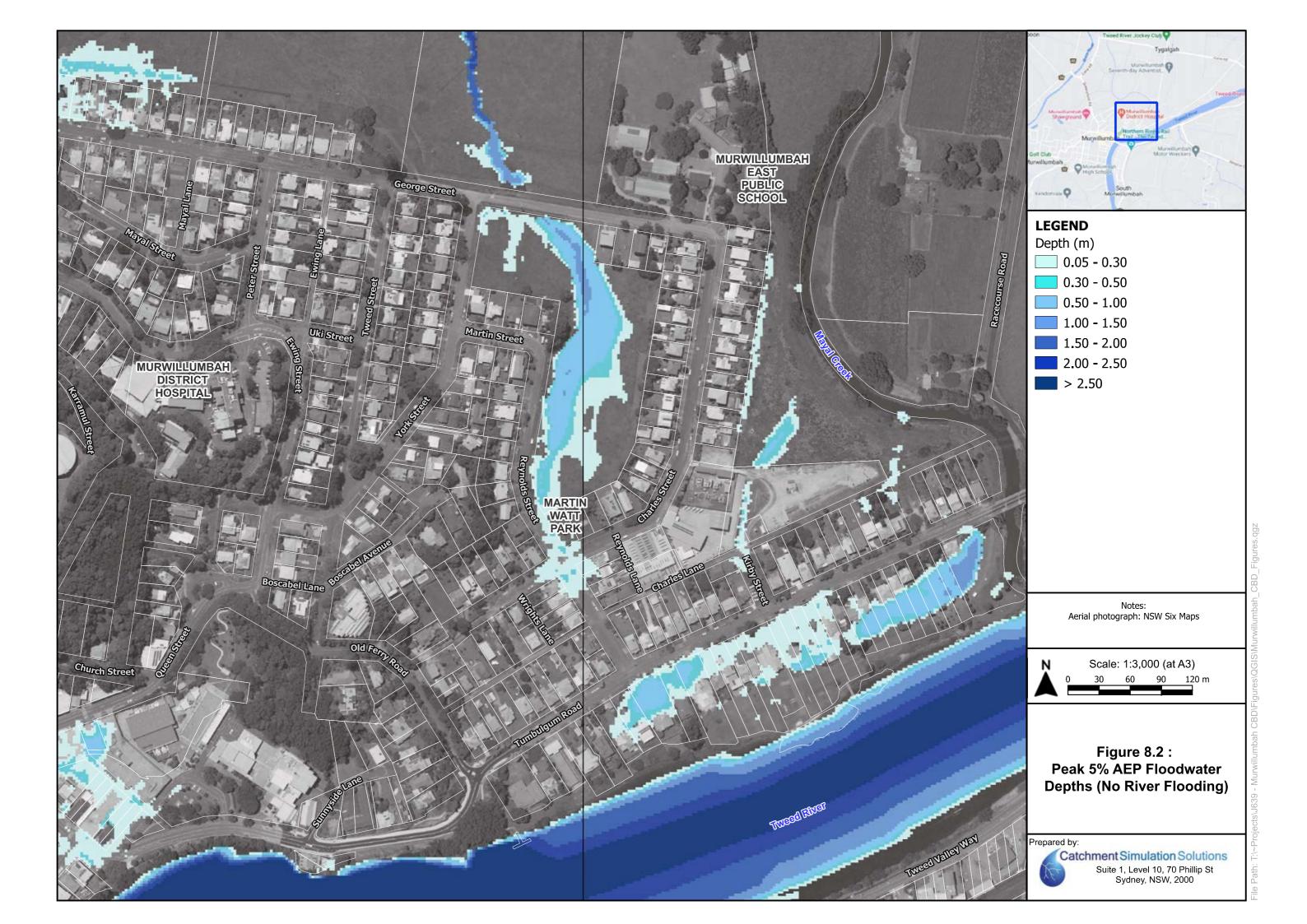


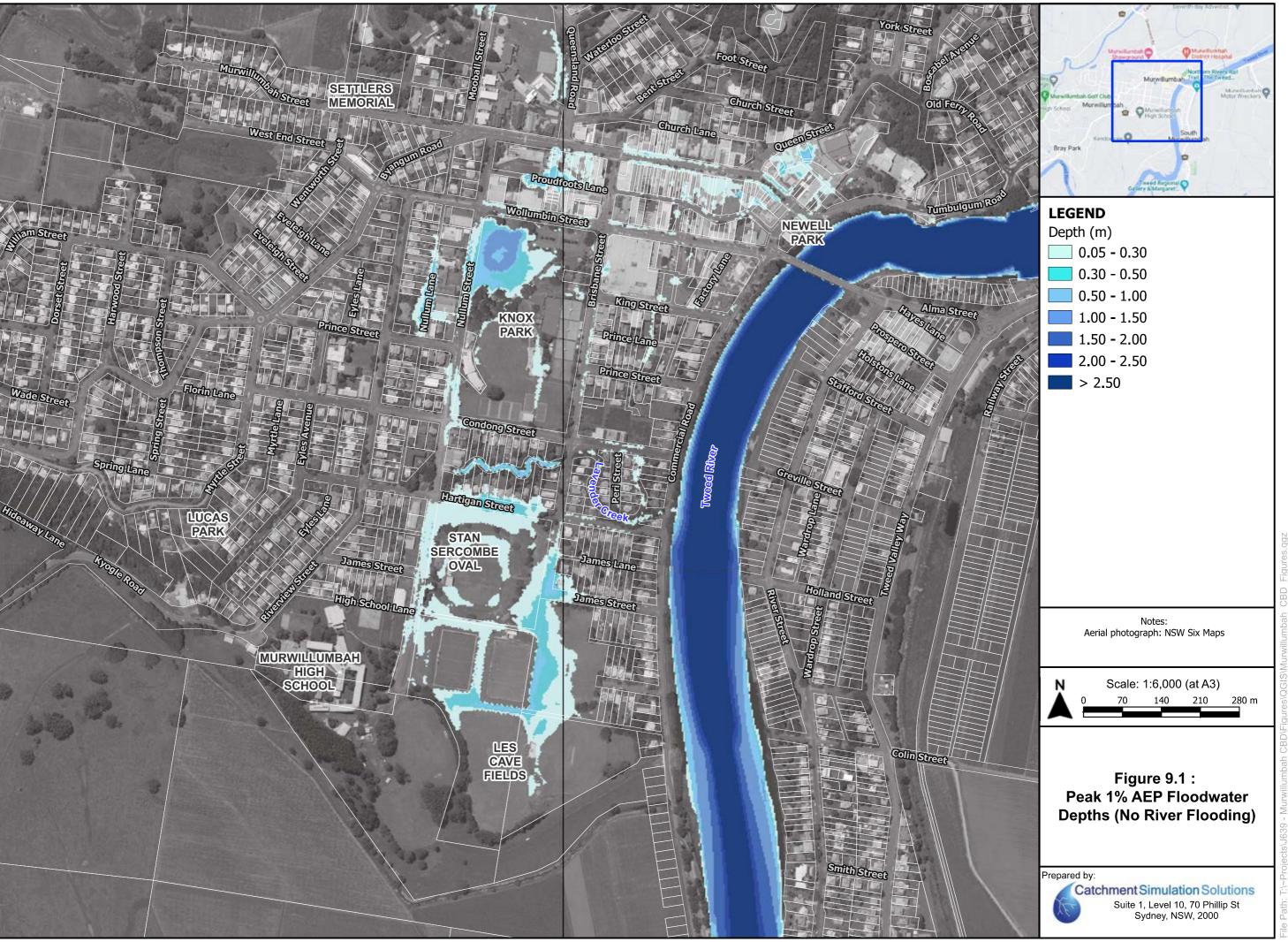


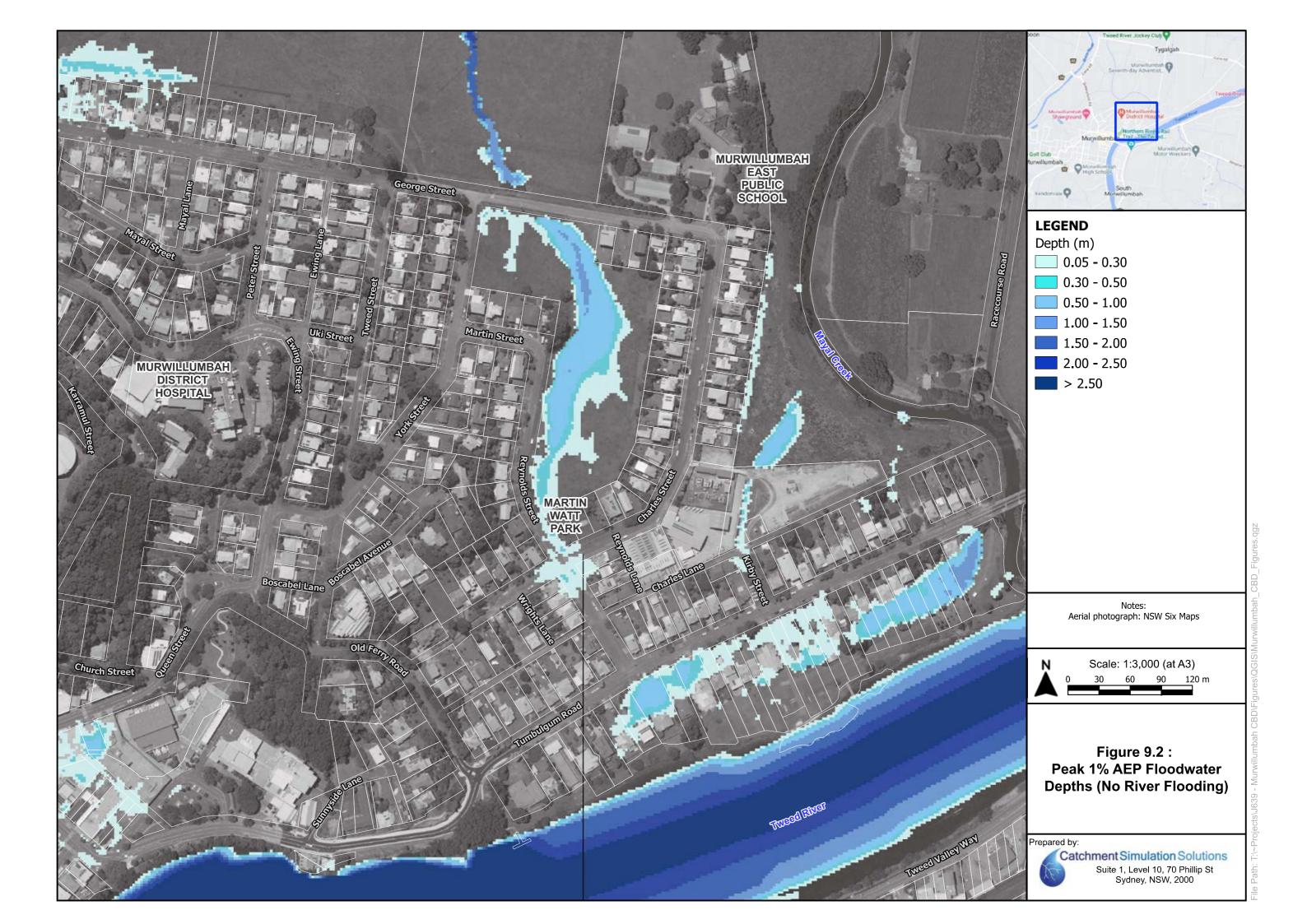


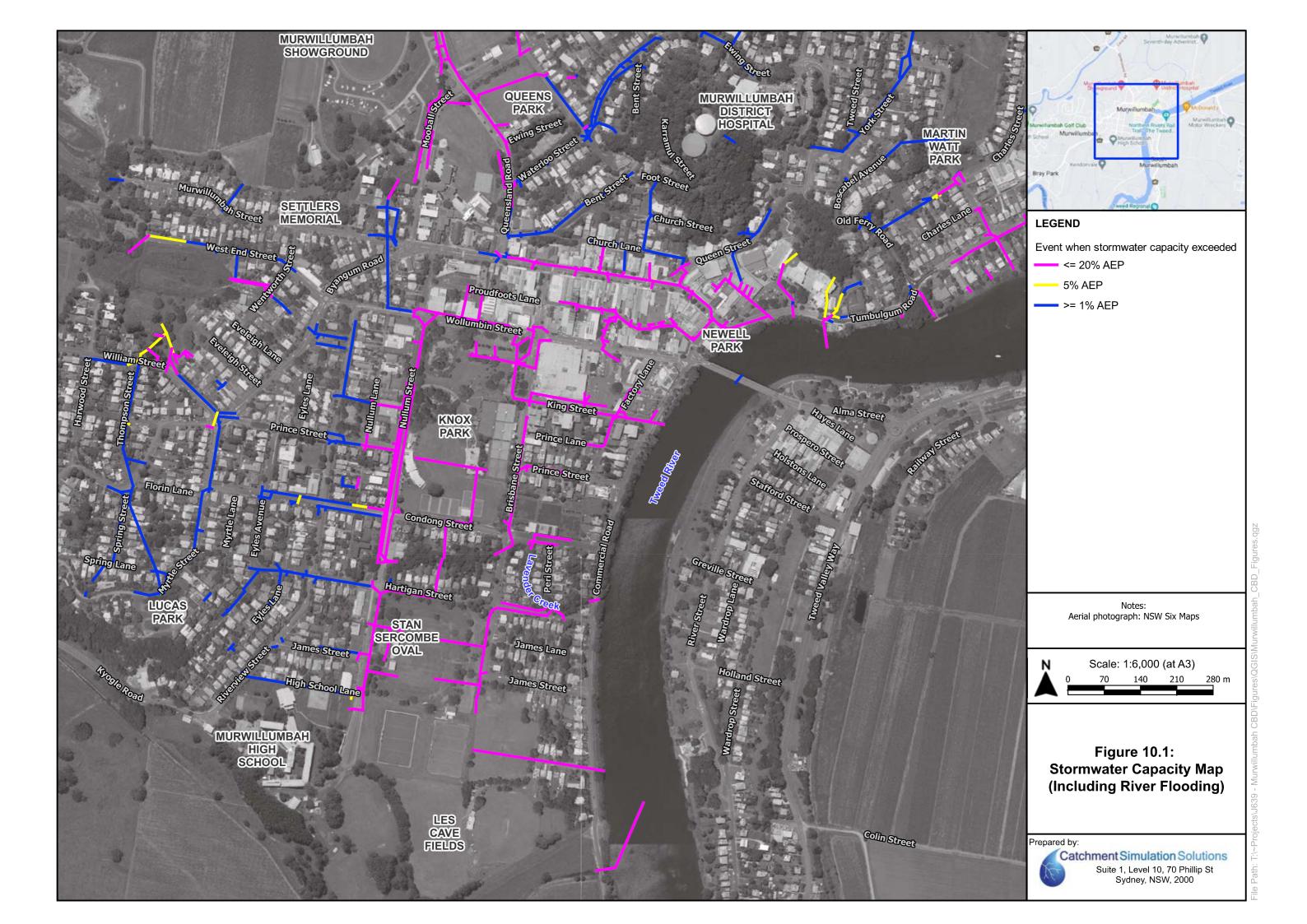


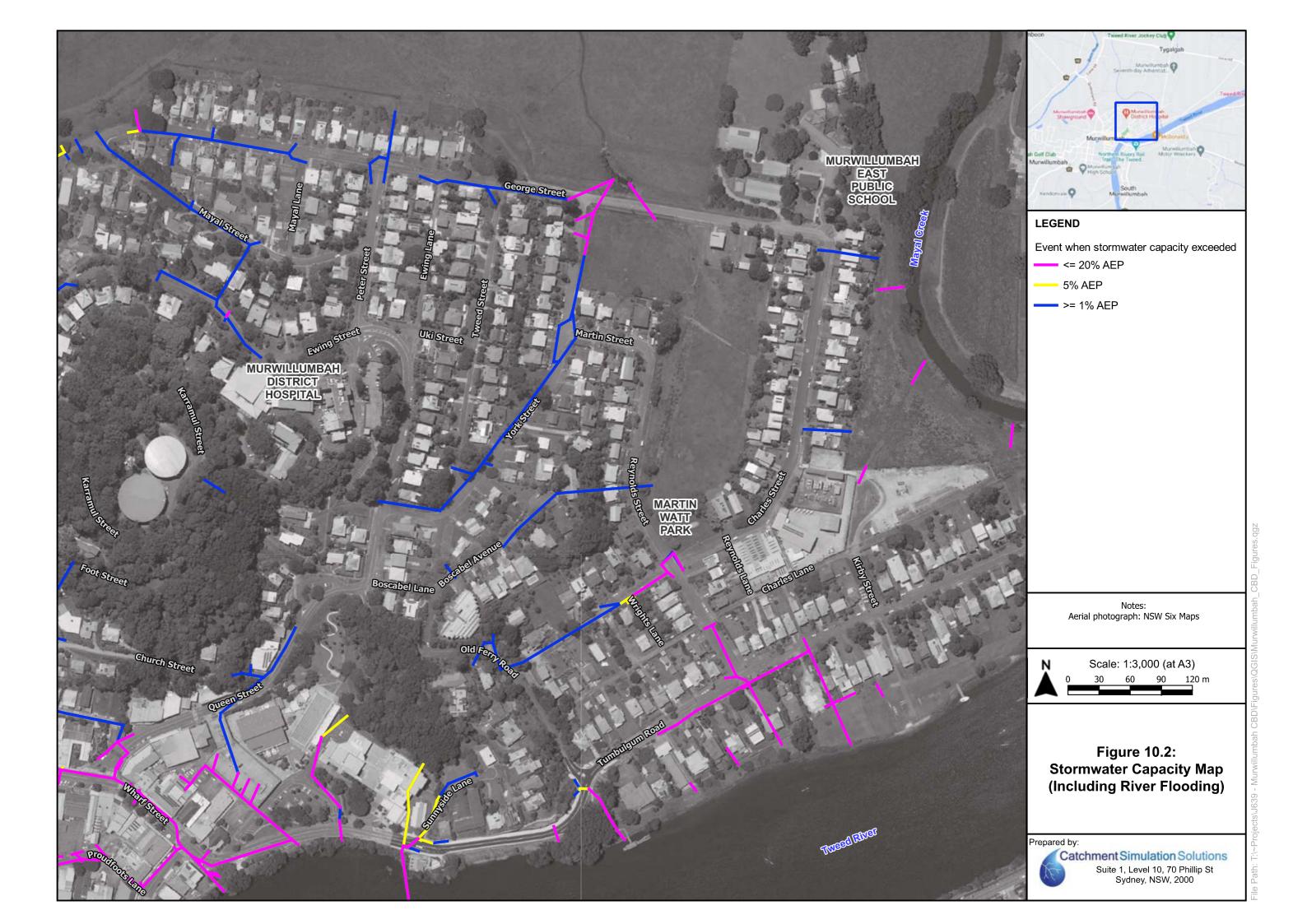


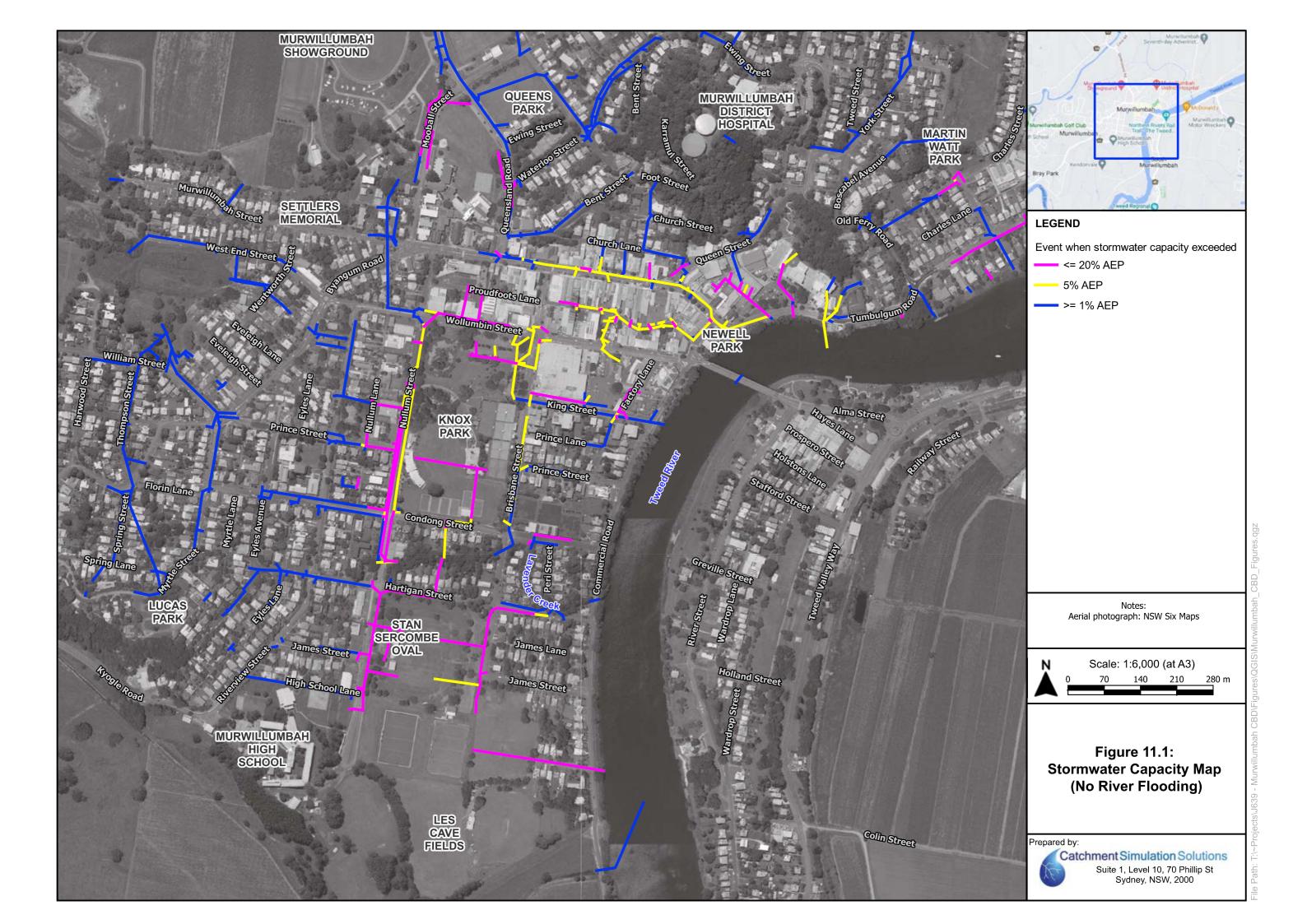


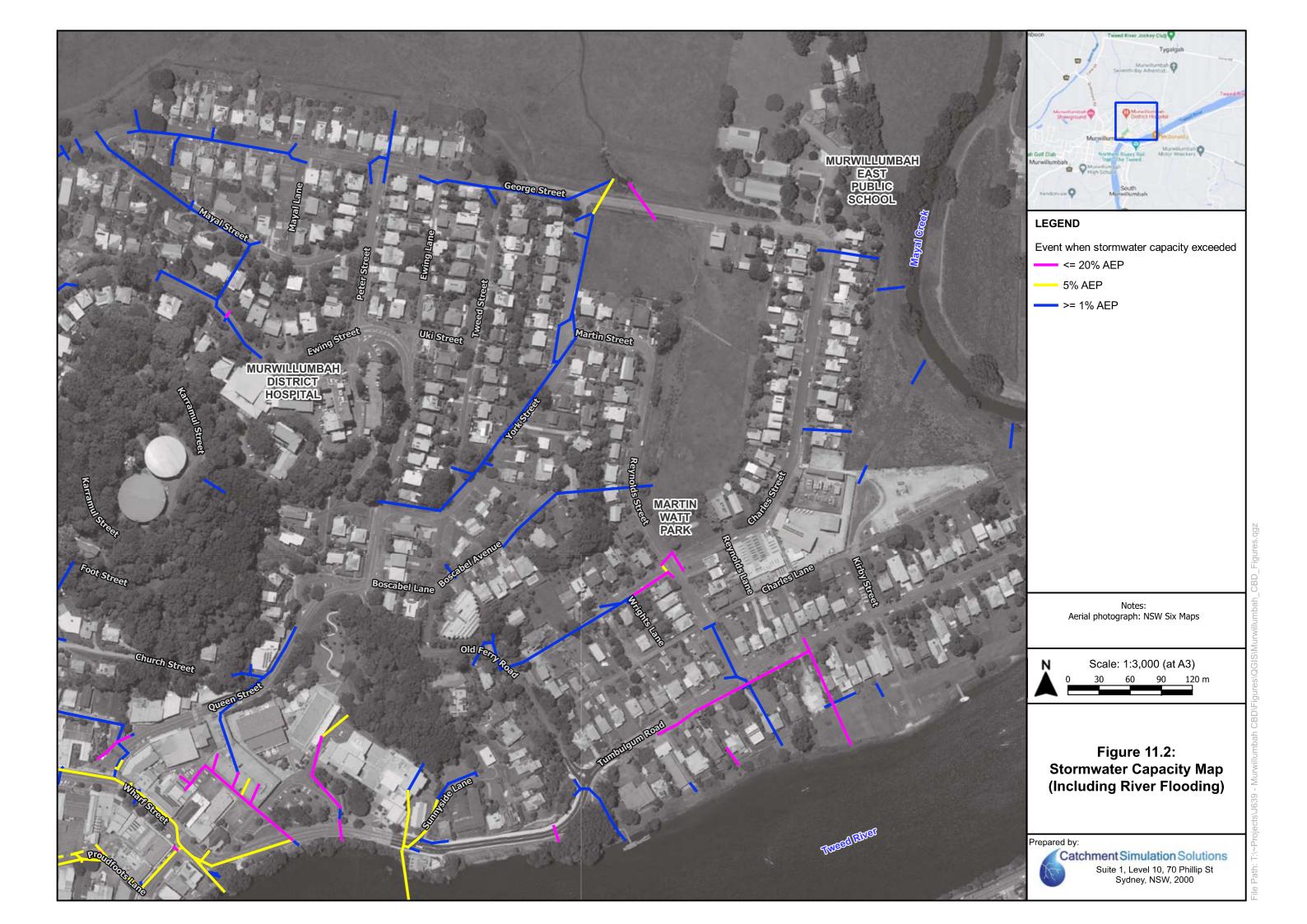








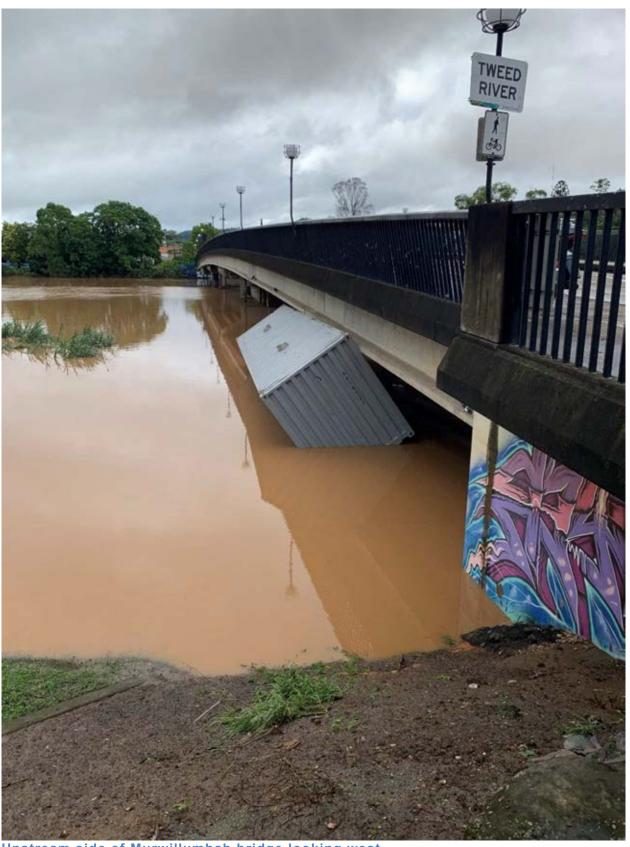






**2022 FLOOD PHOTOS** 

## **2022 FLOOD PHOTOS**



Upstream side of Murwillumbah bridge looking west



Murwillumbah Netball association courts looking north-west towards Powerhouse Christian Centre



Condong St looking towards 12 Condong St property



Nullum St and High School Ln intersection looking south along Nullum St



Outlet of Lavender Creek pumps



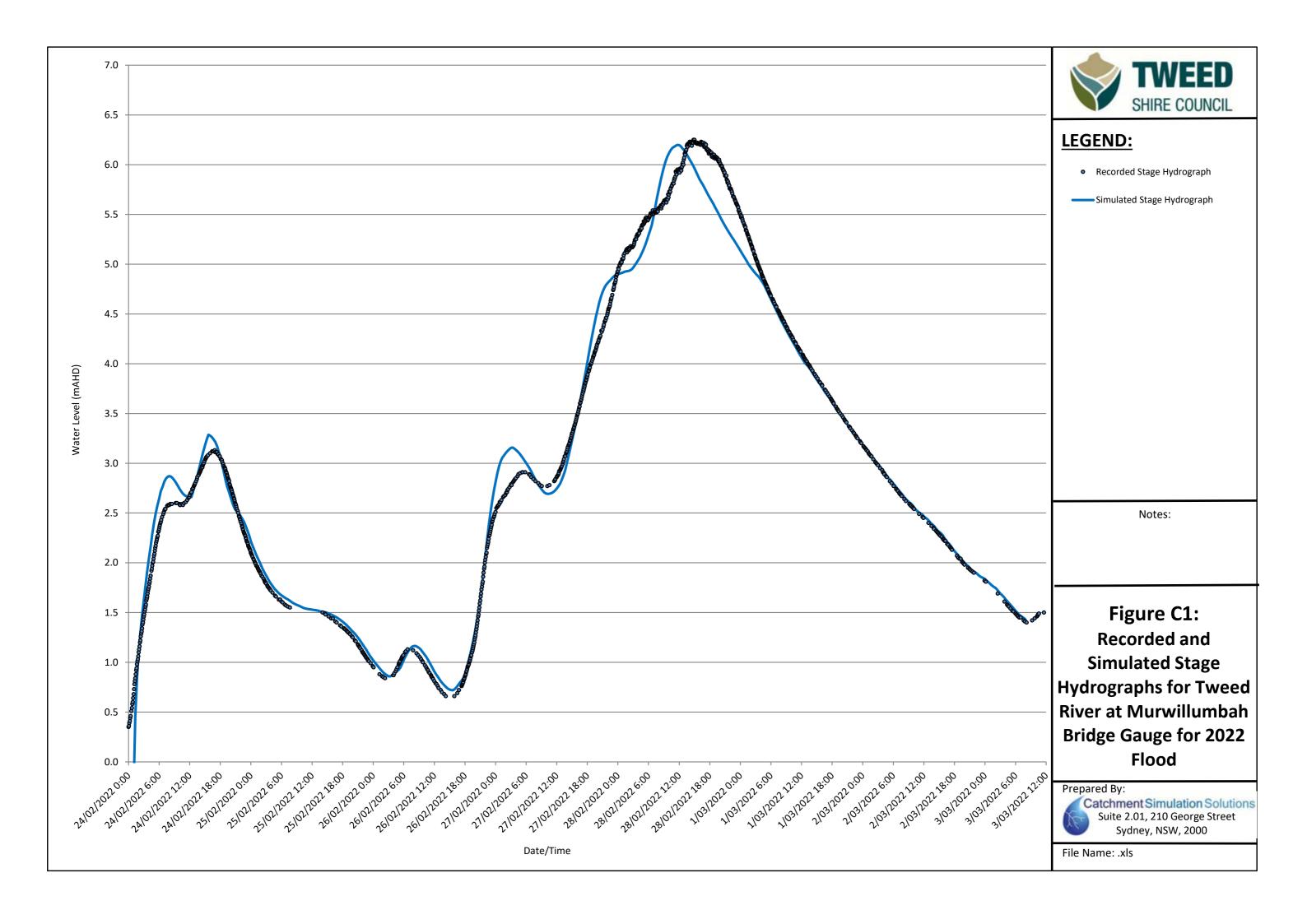
Intersection of Proudfoots Lane and Brisbane St looking east

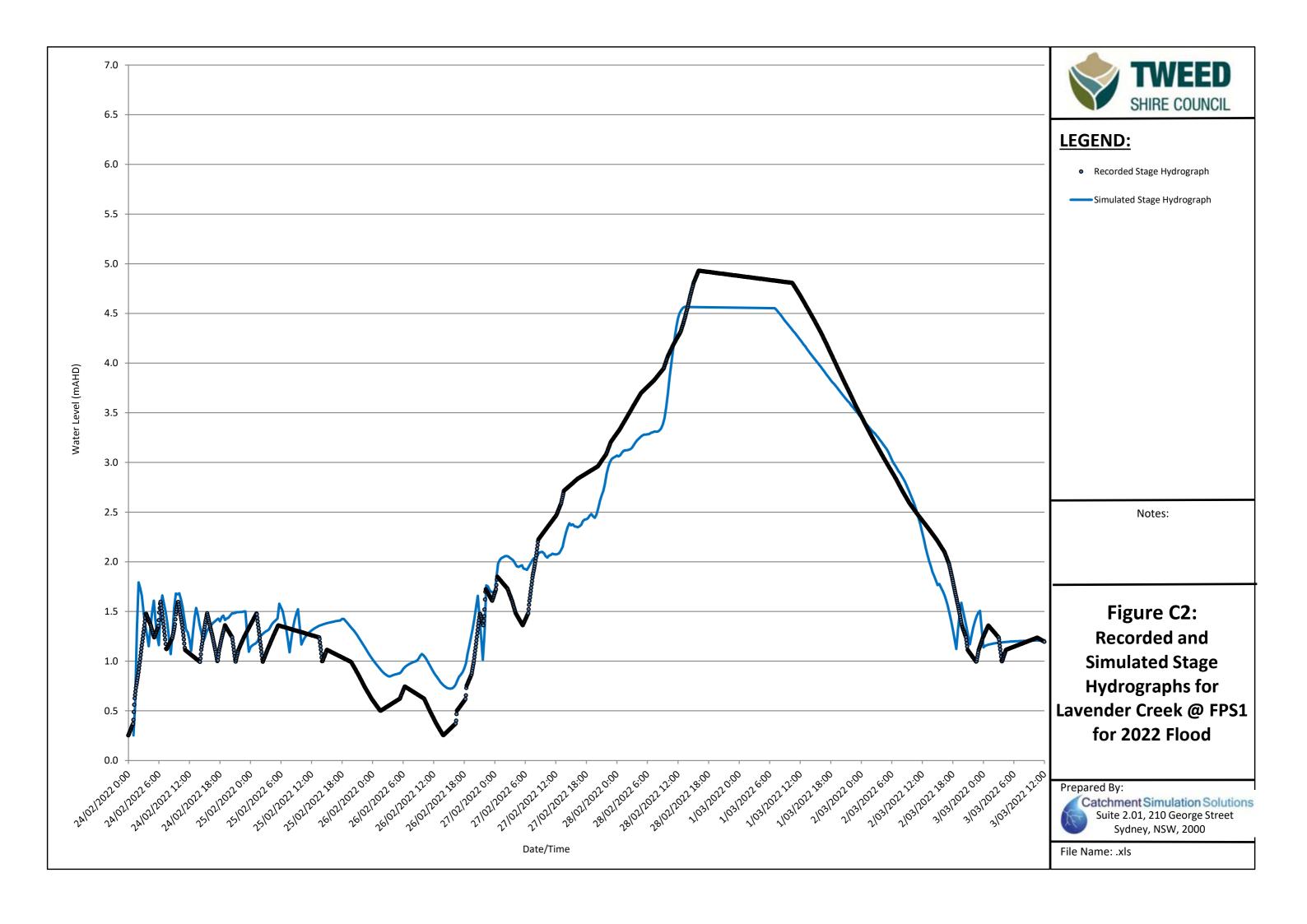


Commercial Rd looking south after flood has passed

## **APPENDIX C**

### **MARCH 2022 STAGE HYDROGRAPHS**





# **APPENDIX D**

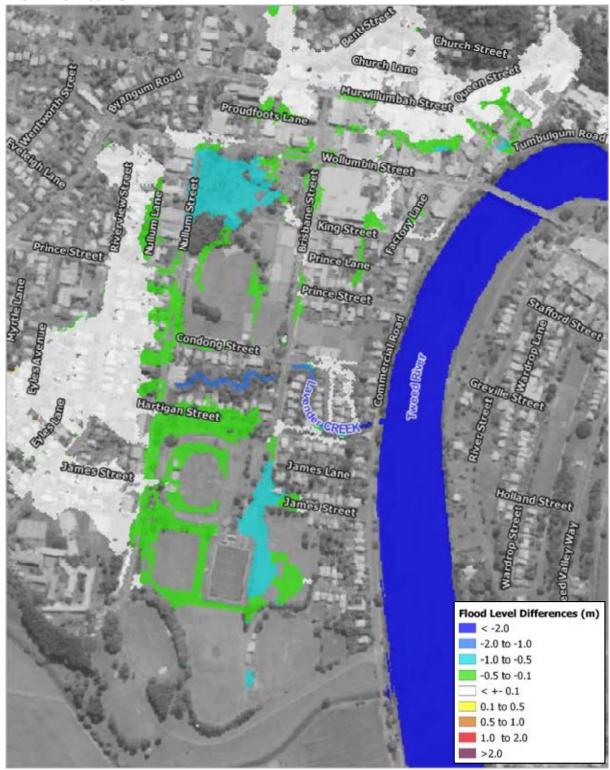
### LOW RIVER LEVEL DIFFERENCE MAPS

#### **Overview**

The following appendix shows the impact that low river levels would have on flooding behind the Murwillumbah CBD and Murwillumbah East levees. More specifically, it shows the magnitude and extent of reductions in water level associated a low river level versus a high river water level in the form of flood level difference maps.

#### **20% AEP**

#### **Murwillumbah CBD**



Predicted change in 20% AEP water levels across the Murwillumbah CBD with a low Tweed River water level

#### **East Murwillumbah**



Predicted change in 20% AEP water levels across East Murwillumbah with a low Tweed River water level

#### **5% AEP**

#### **Murwillumbah CBD**



Predicted change in 5% AEP water levels across the Murwillumbah CBD with a low Tweed River water level

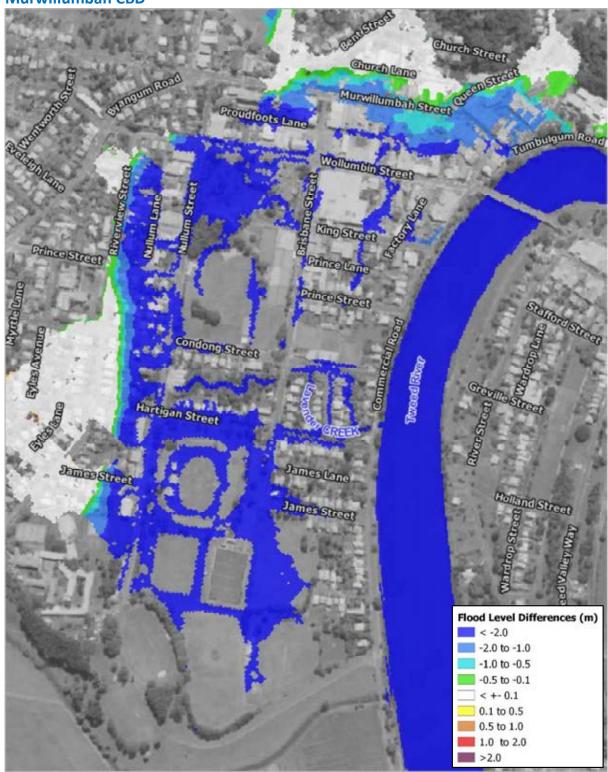
## **East Murwillumbah**



Predicted change in 5% AEP water levels across East Murwillumbah with a low Tweed River water level

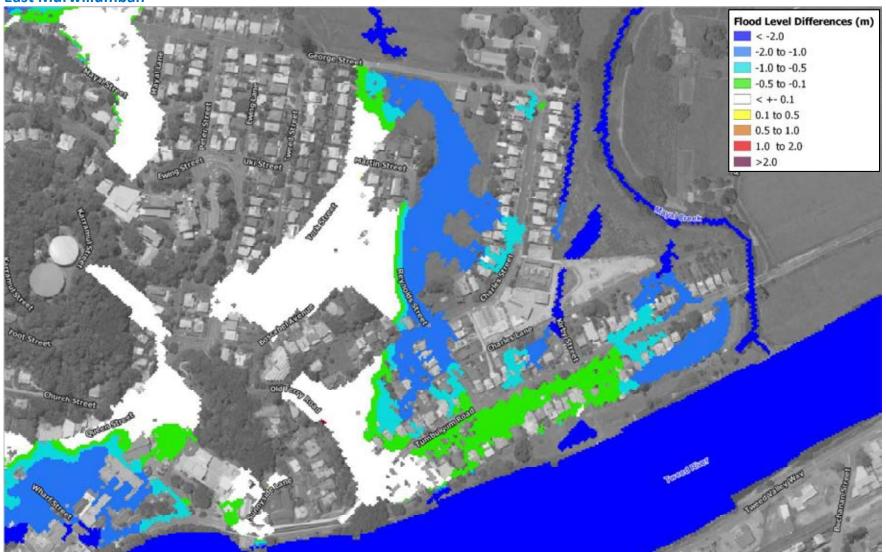
#### **1% AEP**

#### **Murwillumbah CBD**



Predicted change in 1% AEP water levels across the Murwillumbah CBD with a low Tweed River water level

## **East Murwillumbah**



Predicted change in 1% AEP water levels across East Murwillumbah with a low Tweed River water level

# **APPENDIX E**

**COST ESTIMATES** 



## Lavender Creek Pump Station Upgrade Scenario 1 (Minimum Upgrade)

Nominal Capacity = 4m3/s (1 x Flygt PL7125 or eqivalent)

#### Job Title: Lavender Creek Pump Station Upgrade

Code	Description	Quantity	Unit	Rate		Amount	Notes
	015, JOB SITE CHARGES						
7516	Demolition of Existing House (77 Commercial Road)	1	Item	\$	50,000.00	\$	50,000.00
7511	Dewatering for Pump Well Excavation	1	Item	\$	6,631.99	\$	6,631.99
7507	Environmental Compliance	1	Item	\$	2,070.10	\$	2,070.10
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$	4,174.46
7480	Principal Project Management	1	Item	\$	7,086.70	\$	7,086.70
7508	Traffic Control and Guidance & 5099	1	Item	\$	12,008.69	\$	12,008.69
7620	Temporary Fencing	70	Metres	\$	35.78	\$	2,504.88
	025, FORMATION/ EARTHWORKS/EXCAVATION						
7593	Excavation for Pump Wells	720	Tonne	\$	41.63	\$	29,972.16
7593	Excavation for Maintenance Access	145	Tonne	\$	41.63	\$	6,036.06
	040, MINOR WORKS						
7629	Maintenance Access - Driveway Crossover	1	Item	\$	5,485.72	\$	5,485.72
7624	Maintenance Access (Reinforced Concrete)	105	M2	\$	149.72	\$	15,721.02
7628	Landscaping, Revegetation, Restoration	1	Item	\$	6,412.49	\$	6,412.49
	050, PUMP WELL STRUCTURES						
7665	Pump Well Rear and Side Walls (Reinforced Concrete)	1	Each	\$	37,159.67	\$	37,159.67
7669	Pump Well Base Slab (Reinforced Concrete)	1	Each	\$	23,739.97	\$	23,739.97
7649	Large Debris Screen (Fabricate and Install)	1	Item	\$	22,500.00	\$	22,500.00
iį7649	Pump Platform (Roof of Wells)	1	Item	\$	20,000.00	\$	20,000.00
	055, PUMPS, PIPES, AND ASSOCIATED INFRASTRUCUTRE						
7684	Pump Outlet Pipes incl Mounts and Bracing	1	Item	\$	40,000.00	\$	40,000.00
7686	Pumps - 1 x Flygt PL7125	1.00	Each	\$	635,000.00	\$	635,000.00
7685	Slip Line Existing RCP Outlet Pipes	1	Item	\$	120,000.00	\$	120,000.00
7687	Switchboard Controls, Telemetry, Commissioning	1	Each	\$	100,000.00	\$	100,000.00
7620	Site Structures - Switchgear Housing, Motor Platform, Sheds etc.	1	Item	\$	37,500.00	\$	37,500.00
7633	Generator Backup - Supply and Installation	1	Item	\$	175,000.00	\$	175,000.00
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	120,000.00	\$	120,000.00
		Sub-To	tal (Direct	Costs)		\$	1,479,004
	COSTS, INDIRECT COSTS						
COST	Indirect Costs	1.00	Item				\$746,897

Total (rounded)

\$2,230,000



Tweed Shire Council

## Lavender Creek Pump Station Upgrade Scenario 2 (Mid-Range Capacity)

Nominal Capacity = 8m3/s (2 x Flygt PL7125)

Job Title: Lavender Creek Pump Station Upgrade

Code	Description	Quantity	Unit	Rate		Amount		Notes
	015, JOB SITE CHARGES							
7516	Demolition of Existing House (77 Commercial Road)	1	Item	\$	50,000.00	\$	50,000.00	
7511	Dewatering for Pump Well Excavation	1	Item	\$	9,947.99	\$	9,947.99	
7507	Environmental Compliance	1	Item	\$	2,070.10	\$	2,070.10	
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$	4,174.46	
7480	Principal Project Management	1	Item	\$	7,086.70	\$	7,086.70	
7508	Traffic Control and Guidance & 5099	1	Item	\$	12,008.69	\$	12,008.69	
7620	Temporary Fencing	70	Metres	\$	35.78	\$	2,504.88	
	025, FORMATION/ EARTHWORKS/EXCAVATION							
7593	Excavation for Pump Wells	720	Tonne	\$	62.44	\$	44,958.24	
7593	Excavation for Maintenance Access	145	Tonne	\$	41.63	\$	6,036.06	
	040, MINOR WORKS							
7629	Maintenance Access - Driveway Crossover	1	Item	\$	5,485.72	\$	5,485.72	
7624	Maintenance Access (Reinforced Concrete)	105	M2	\$	149.72		15,721.02	
7628	Landscaping, Revegetation, Restoration	1	Item	\$	6,412.49	\$	6,412.49	
	050, PUMP WELL STRUCTURES							
7665	Pump Well Rear and Side Walls (Reinforced Concrete)	1	Each	\$	55,739.50	\$	55,739.50	
7669	Pump Well Base Slab (Reinforced Concrete)	1	Each	\$	35,609.96	\$	35,609.96	
7649	Large Debris Screen (Fabricate and Install)	1	Item	\$	22,500.00	\$	22,500.00	
li <sub>(</sub> 7649	Pump Platform (Roof of Wells)	1	Item	\$	30,000.00	\$	30,000.00	
	055, PUMPS, PIPES, POWER AND ASSOCIATED INFRASTRUCUTRE							
7684	Pump Outlet Pipes incl Mounts and Bracing	1	Item	\$	60,000.00	\$	60,000.00	
7686	Pumps - 2 x Flygt PL7125	2.00	Each	\$	630,000.00	\$	1,260,000.00	
7685	Slip Line Existing RCP Outlet Pipes	1	Item	\$	120,000.00	\$	120,000.00	
7687	Switchboard Controls, Telemetry, Commissioning	1	Each	\$	150,000.00	\$	150,000.00	
7620	Site Structures - Switchgear Housing, Motor Platform, Sheds etc.	1	Item	\$	56,250.00	\$	56,250.00	
7633	Generator Backup - Supply and Installation	1	Item	\$	225,000.00	\$	225,000.00	
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	175,000.00	\$	175,000.00	
		Sub-To	tal (Direct Costs	)		\$	2,356,506	
	COSTS, INDIRECT COSTS							
COST	Indirect Costs	1.00	Item			\$	1,190,035	

Total (rounded)

\$ 3.550.000

Where Benchmark Rates have been used, a factor of 1.2 has been applied to account for recent inflation/market changes



Tweed Shire Council

## **Lavender Creek Pump Station Upgrade Scenario 3 (High Range Capacity)**

Nominal Capacity = 12m3/s (3 x Flygt PL7125)

Job Title: Lavender Creek Pump Station Upgrade

Code	Description	Quantity	Unit	Rate		Amount		Notes
	015, JOB SITE CHARGES							
7516	Demolition of Existing House (77 Commercial Road)	1	Item	\$	50,000.00	\$	50,000.00	
7511	Dewatering for Pump Well Excavation	1	Item	\$	13,263.98		13,263.98	
7507	Environmental Compliance	1	Item	\$	2,070.10		2,070.10	
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46		4,174.46	
7480	Principal Project Management	1	Item	\$	7,086.70		7,086.70	
7508	Traffic Control and Guidance & 5099	1	Item	\$	12,008.69		12,008.69	
7620	Temporary Fencing	70	Metres	\$	35.78		2,504.88	
	025, FORMATION/ EARTHWORKS/EXCAVATION							
7593	Excavation for Pump Wells (incl Propping)	720	Tonne	\$	83.26	\$	59,944.32	
7593	Excavation for Maintenance Access	145	Tonne	\$	41.63	\$	6,036.06	
	040, MINOR WORKS							
7629	Maintenance Access - Driveway Crossover	1	Item	\$	5,485.72	\$	5,485.72	
7624	Maintenance Access (Reinforced Concrete)	105	M2	\$	149.72		15,721.02	
7628	Landscaping, Revegetation, Restoration	1	Item	\$	6,412.49	\$	6,412.49	
	050, PUMP WELL STRUCTURES							
7665	Pump Well Rear and Side Walls (Reinforced Concrete)	1	Each	\$	74,319.34	\$	74,319.34	
7669	Pump Well Base Slab (Reinforced Concrete)	1	Each	\$	47,479.94	\$	47,479.94	
7649	Large Debris Screen (Fabricate and Install)	1	Item	\$	30,000.00	\$	30,000.00	
liį 7649	Pump Platform (Roof of Wells)	1	Item	\$	40,000.00	\$	40,000.00	
	055, PUMPS, PIPES, AND ASSOCIATED INFRASTRUCUTRE							
7684	Pump Outlet Pipes incl Mounts and Bracing	1	Item	\$	80,000.00	\$	80,000.00	
7686	Pumps - 3 x Flygt PL7125	3.00	Each	\$	628,000.00	\$	1,884,000.00	
7685	Slip Line Existing RCP Outlet Pipes	1	Item	\$	120,000.00	\$	120,000.00	
7523	Pipe-Jack New Outlet Pipe	1	Each	\$	200,000.00	\$	200,000.00	
7687	Switchboard Controls, Telemetry, Commissioning	1	Each	\$	200,000.00	\$	200,000.00	
7620	Site Structures - Switchgear Housing, Motor Platform, Sheds etc.	1	Item	\$	75,000.00	\$	75,000.00	
7633	Generator Backup - Supply and Installation	1	Item	\$	225,000.00		225,000.00	
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	225,000.00	\$	225,000.00	
		Sub-Tot	al (Direct C	osts)		\$	3,385,508	
	COSTS, INDIRECT COSTS							
COST	Indirect Costs	1.00	Item			\$	1,709,681	

Total (rounded) \$ 5,100,000



## Wharf Street Scenario 1 – Inlet Upgrade Only

Pump Unchanged. Augment Offtake. Increase Inlet Capacity. Replace Pump Station Pits.

Job Title: Wharf Street 1 - Inlet Upgrade Only

Code	Description	Quantity	Unit		Rate	Amount
	015, JOB SITE CHARGES					
7516	Demolition of Existing Pump Station	1	Item	\$	30,000.00	\$ 30,000
7507	Environmental Compliance	1	Item	\$	1,245.30	\$ 1,245
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$ 4,174
7480	Principal Project Management	1	Item	\$	3,543.35	\$ 3,543
7508	Traffic Control and Guidance & 5099	1	Item	\$	38,936.65	\$ 38,937
	020, DRAINAGE					
7522	Augment Local Sag Offtake Pipe	35	Metres	\$	934.72	\$ 32,715
7541	Inlet Pits - Augment Inlet Capacity	3	Each	\$	6,097.99	\$ 18,294
7687	New Large Pump Well	1	Each	\$	84,178.25	\$ 84,178
	030, PAVEMENT					
7603	Reinstate Road - Base Material	50	Tonne	\$	104.36	\$ 5,218
7569	Reinstate Kerb & Gutter	25	Metres	\$	158.45	\$ 3,961
	035, WEARING SURFACE					
7614	Reinstate Wharf St - Asphalt	75	M2	\$	60.00	\$ 4,500
7610	Reinstate Wharf St - Prime Coat	75	M2	\$	15.00	\$ 1,125
	040, MINOR WORKS					
7620	Temporary Fencing	70	Metres	\$	35.78	\$ 2,505
7628	Landscaping, Revegetation, Restoration	1	Item	\$	6,040.82	\$ 6,041
7654	Linemarking	50	Metres	\$	25.00	\$ 1,250
	055, WATER MAINS					
7645	Pump Supports, Structures and Fixings	1	Item	\$	18,000.00	\$ 18,000
7686	Reinstate Switchboards Controls, Telemetry and Re- Commissioning	1	Each	\$	24,000.00	\$ 24,000
		;	Sun-Tota	al		\$ 279,687
	COSTS, INDIRECT COSTS					
COST	Indirect Costs	1	Item			\$ 141,243

**Total (rounded) \$ 420,000** 

#### **Project Specific Conditions:**

Where Benchmark Rates have been used, a factor of 1.2 has been applied to account for recent inflation/market changes



# **Wharf Street Scenario 2 – Inlet and Pump Upgrade**

Augment Offtake. Increase Inlet Capacity. Replace Pump Station Pits. New Pump = Flygt P7081

Job Title: Wharf Street Pump Station Upgrade

Code	Description	Quantity Unit			Rate	Amount		
	015, JOB SITE CHARGES							
7516	Demolition of Existing Pump Station	1	Item	\$	20,000.00	\$ 20,000		
7507	Environmental Compliance	1	Item	\$	1,245.30	\$ 1,245		
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$ 4,174		
7480	Principal Project Management	1	Item	\$	3,543.35	\$ 3,543		
7508	Traffic Control and Guidance & 5099	1	Item	\$	25,957.76	\$ 25,958		
	020, DRAINAGE							
7522	Augment Local Sag Offtake Pipe	35	Metres	\$	934.72	\$ 32,715		
7541	Inlet Pits - Augment Inlet Capacity	3	Each	\$	6,097.99	\$ 18,294		
7687	New Large Pump Well	1	Each	\$	84,178.25	\$ 84,178		
7688	Pipe-Jack New Outlet Under Levee	1	Each	\$	150,000.00	\$ 150,000		
	030, PAVEMENT							
7603	Reinstate Road - Base Material	50	Tonne	\$	104.36	\$ 5,218		
7569	Reinstate Kerb & Gutter	25	Metres	\$	158.45	\$ 3,961		
	035, WEARING SURFACE							
7614	Reinstate Wharf St - Asphalt	75	M2	\$	60.00	\$ 4,500		
7610	Reinstate Wharf St - Prime Coat	75	M2	\$	15.00	\$ 1,125		
	040, MINOR WORKS							
7620	Temporary Fencing	70	Metres	\$	35.78	\$ 2,505		
7628	Landscaping, Revegetation, Restoration	1	Item	\$	12,081.65	\$ 12,082		
7654	Linemarking	100	Metres	\$	25.00	\$ 2,500		
	055, WATER MAINS							
7644	Pump - 1 x Flygt PL7081	1	Item	\$	295,000.00	\$ 295,000		
7645	Pump Supports, Structures and Fixings	1	Item	\$	20,000.00	\$ 20,000		
7686	Reinstate Switchboards Controls, Telemetry and Re- Commissioning	1	Each	\$	40,000.00	\$ 40,000		
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	75,000.00	\$ 75,000.00		
			Sun-Tota	al		\$ 801,999		
	COSTS, INDIRECT COSTS							
COST	Indirect Costs	1	Item			\$ 386,514		

Total (rounded) \$ 1,190,000



## Wharf Street Scenario 3 - New (Deep) Medium Capacity Pump Station

Nominal Capacity = 1.2m3/s (1 x Flygt PL7081). Set Below Stormwater System IL.

Job Title: Wharf Street Pump Station Upgrade

Code	Description	Quantity	Unit		Rate		Amount	Notes	
	015, JOB SITE CHARGES								
7507	Environmental Compliance	1	Item	\$	1,245.30	\$	1,245.30		
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$	4,174.46		
7480	Principal Project Management	1	Item	\$	5,315.03	\$	5,315.03		
7508	Traffic Control and Guidance & 5099	1	Item	\$	100,000.00	\$	100,000.00		
7511	Dewatering	1	Item	\$	13,263.98	\$	13,263.98		
	020, DRAINAGE								
7544	New Large Pump Well	1	Each	\$	140,000.00	\$	140,000.00		
7523	Pipe-Jack New Outlet Pipe	1	Each	\$	150,000.00	\$	150,000.00		
	030, PAVEMENT								
7603	Reinstate Tumbulgum Road - Base Material	362	Tonne	\$	91.12	\$	32,983.99		
7569	Reinstate Kerb & Gutter	25	Metres	\$	158.45	\$	3,961.20		
	035, WEARING SURFACE								
7614	Reinistate Tumbulgum Road - Asphalt	216	M2	\$	20.99	\$	4,533.41		
7610	Reinistate Tumbulgum Road - Prime Coat	216	M2	\$	9.78	\$	2,112.48		
	040, MINOR WORKS								
7620	Temporary Fencing	70	Metres	\$	35.78	\$	2,504.88		
7628	Landscaping, Revegetation, Restoration	1	Item	\$	6,040.82	\$	6,040.82		
7619	Flood Gates	1	Item	\$	1,200.00	\$	1,200.00		
7654	Linemarking	200	Metres	\$	8.24	\$	1,648.80		
	055, WATER MAINS								
7632	Pump - 1 x Flygt PL7081	1	Item	\$	295,000.00	\$	295,000.00		
7645	Pump Supports, Structures and Fixings	1	Item	\$	18,750.00	\$	18,750.00		
7648	Switchboard Controls, Telemetry, Commissioning	1	Item	\$	112,500.00	\$	112,500.00		
7685	Divert Trunk Water Main	1	Item	\$	160,000.00	\$	160,000.00		
7633	Generator Backup - Supply and Installation	1	Item	\$	100,000.00	\$	100,000.00		
7634	Alterations to Electricity Services (incl New	1	Item	\$	75,000.00	\$	75,000.00		
					Sub-Total	\$	1,230,234.36		
	COSTS, INDIRECT COSTS								
COST	Indirect Costs	1	Item			\$	510,696.77		
				Т	otal (rounded)		\$1,740,000		



## Wharf Street Scenario 4 - New (Deep) High Capacity Pump Station

Nominal Capacity = 2.5m3/s (1 x Flygt PL7105)

Job Title: Wharf Street 4 – New (Deeper) High Capacity Pump Station

Code	Description	Quantity	Unit	Rate		Amount	Notes
	015, JOB SITE CHARGES						
7507	Environmental Compliance	1	Item	\$ 1,245.30	\$	1,245.30	
7500	Establishment, Large (Including Plant Transport)	1	Item	\$ 4,174.46	\$	4,174.46	
7480	Principal Project Management	1	Item	\$ 5,315.03	\$	5,315.03	
7508	Traffic Control and Guidance & 5099	1	Item	\$ 100,000.00	\$	100,000.00	
7511	Dewatering	1	Item	\$ 13,263.98	\$	13,263.98	
	020, DRAINAGE						
7544	New Large Pump Well	1	Each	\$ 175,000.00	\$	175,000.00	
7523	Pipe-Jack New Outlet Pipe	1	Each	\$ 150,000.00	\$	150,000.00	
	030, PAVEMENT						
7603	Reinstate Tumbulgum Road - Base Material	362	Tonne	\$ 91.12	\$	32,983.99	
7569	Reinstate Kerb & Gutter	25	Metres	\$ 158.45	\$	3,961.20	
	035, WEARING SURFACE						
7614	Reinistate Tumbulgum Road - Asphalt	216	M2	\$ 20.99	\$	4,533.41	
7610	Reinistate Tumbulgum Road - Prime Coat	216	M2	\$ 9.78	\$	2,112.48	
	040, MINOR WORKS						
7620	Temporary Fencing	70	Metres	\$ 35.78	\$	2,504.88	
7628	Landscaping, Revegetation, Restoration	1	Item	\$ 6,040.82	\$	6,040.82	
7619	Flood Gates	1	Item	\$ 1,200.00	\$	1,200.00	
7654	Linemarking	200	Metres	\$ 8.24	\$	1,648.80	
	055, WATER MAINS						
7632	1 x Flygt P7105	1	Item	\$ 415,000.00	\$	415,000.00	
7645	Pump Supports, Structures and Fixings	1	Item	\$ 25,000.00	\$	25,000.00	
7648	Switchboard Controls, Telemetry, Commissioning	1	Item	\$ 150,000.00	\$	150,000.00	
7685	Divert Trunk Water Main	1	Item	\$ 160,000.00	\$	160,000.00	
7633	Generator Backup - Supply and Installation	1	Item	\$ 150,000.00	\$	150,000.00	
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$ 100,000.00	\$	100,000.00	
				Sub-Total	\$	1,503,984.36	
	COSTS, INDIRECT COSTS						
COST	Indirect Costs	1	Item		\$	797,180.77	

Total (rounded) \$2,300,000



### King Street 1 – New Pump Station fitted to Stormwater System

Nominal Capacity = 2.5m3/s (1 x Flygt PL7105). Set Below Stormwater System IL.

Job Title: King Street Pump Station

Code	Description	Quantity	Unit	Rate		Amount	
	015, JOB SITE CHARGES						
7507	Environmental Compliance	1	Item	\$	1,245.30	\$	1,245.30
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	4,174.46	\$	4,174.46
7480	Principal Project Management	1	Item	\$	5,315.03	\$	5,315.03
7508	Traffic Control and Guidance & 5099	1	Item	\$	36,963.44	\$	36,963.44
7511	Dewatering	1	Item	\$	9,931.19	\$	9,931.19
	020, DRAINAGE						
7544	New Large Pump Well	1	Each	\$	127,650.08	\$	127,650.08
7523	Pipe-Jack New Outlet Pipe	1	Each	\$	150,000.00	\$	150,000.00
	030, PAVEMENT						
7603	Reinstate Road - Base Material	210	Tonne	\$	92.65	\$	19,456.92
7569	Reinstate Kerb & Gutter	25	Metres	\$	158.45	\$	3,961.20
	035, WEARING SURFACE						
7614	Reinstate Road - Asphalt	162	M2	\$	23.86	\$	3,864.67
7610	Reinstate Road - Prime Coat	162	M2	\$	9.78	\$	1,584.36
	040, MINOR WORKS						
7620	Temporary Fencing	70	Metres	\$	35.78	\$	2,504.88
7619	Flood Gates	1	Item	\$	1,200.00	\$	1,200.00
7654	Linemarking	50	Metres	\$	32.99	\$	1,649.40
	055, WATER MAINS						
7632	1 x Flygt P7105	1	Item	\$	415,000.00	\$	415,000.00
7645	Pump Supports, Structures and Fixings	1	Item	\$	24,000.00	\$	24,000.00
7648	Switchboard Controls, Telemetry, Commissioning	1	Item	\$	120,000.00	\$	120,000.00
7685	Divert Trunk Water Main	1	Item	\$	160,000.00	\$	160,000.00
7633	Generator Backup - Supply and Installation	1	Item	\$	150,000.00	\$	150,000.00
7634	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	100,000.00	\$	100,000.00
	COSTS, INDIRECT COSTS			Sub	-Total	\$	1,338,501
_							
COST	Indirect Costs	1	Item			\$	676,818.79

Total (rounded) \$2,020,000.00



# **EM1 - East Murwillumbah Pump Station**

Date Printed 21 March 2023 Quote Number: EM1

Tweed Shire Council

#### Attention:

#### Job Title: EM1 - East Murwillumbah Pump Station

Code	Description	Quantity	Unit	Rate	9	Amount	t .
	015, JOB SITE CHARGES						
7517	Acid Sulphate Soil Treatment On-Site	1	Item	\$	7,578.50	\$	7,578.50
7511	Dewatering	1	Item	\$	3,332.80		3,332.80
7507	Environmental Compliance	1	Item	\$	2,070.10		2,070.10
7500	Establishment, Large (Including Plant Transport)	1	Item	\$	3,562.52		3,562.52
7480	Principal Project Management	1	Item	\$	3,543.35		3,543.35
7508	Traffic Control and Guidance & 5099	1	Item	\$	23,304.96		23,304.96
7629	Subdivision and Purchase of Portion of Adjacent Lot for Pump Station	1	Item	\$	75,000.00	\$	75,000.00
	020, DRAINAGE						
7551	Outlet Headwall	1	Each	\$	2,828.27	\$	2,828.27
7684	Install Outlet Pipes	60	Metres	\$	1,157.24		69,434.64
	025, FORMATION/ EARTHWORKS			·	, -	·	,
7500		00	Tanna	ф	54.40	Ф	4 007 00
7593	Earthworks for Pump Well and Intake	90	Tonne	\$	54.42		4,897.80
7592	Excavate and Reinstate Flood Levee	300	Tonne	\$	8.47	Ъ	2,541.60
	030, PAVEMENT						
7603	Reinstate Road - Base Material	20	Tonne	\$	134.80	\$	2,695.92
	035, WEARING SURFACE						
7610	Prime Coat	42	M2	\$	9.78	\$	410.76
7614	Asphalt	42	M2	\$	20.99	\$	881.50
	040, MINOR WORKS						
7631	Adjust Water Main, Services	1	Item	\$	4,782.84	\$	4,782.84
7619	Flood Gates	2	Item	\$	750.00	\$	1,500.00
7624	Footpath & Cycleway Construction	1	M2	\$	3,504.19	\$	3,504.19
7641	Information Signs	1	Item	\$	1,392.44	\$	1,392.44
7628	Landscaping, Revegetation, Restoration	1	Item	\$	7,205.20	\$	7,205.20
7630	Service Locations	1	Item	\$	578.96	\$	578.96
7620	Temporary Fencing	50	Metres	\$	40.50	\$	2,025.00
7620	Permanent Security Fencing	50	Metres	\$	84.30	\$	4,215.00
7654	Linemarking	200	Metres	\$	3.10	\$	619.20
	055, WATER MAINS						
7687	Pump Well - Precast	1	Each	\$	19,599.91	\$	19,599.91
7646	Pump - 1 x Flygt PL7081 (or equivalent)	1	Item	\$	295,000.00	\$	295,000.00
7647	Pump Supports, Structures and Fixings	1	Item	\$	25,000.00	\$	25,000.00
7626	Switchboard Controls, Telemetry, Commissioning	1	Item	\$	100,000.00	\$	100,000.00
7627	Alterations to Electricity Services (incl New Transformer)	1	Item	\$	75,000.00	\$	75,000.00
				;	Sub-Total	\$	742,505.46
	COSTS, INDIRECT COSTS					-	•
COST	Indirect Costs	1	Item			\$	374,963.86

Total \$1,120,000.00



# **EM2 - Stormwater Connectivity Upgrades Associated with East Murwillumbah Pump Station**

Date Printed 21 March 2023 Quote Number: EM2

Tweed Shire Council

Attention:

Job Title: EM2 - Stormwater Connectivity Upgrades Associated with East Murwillumbah Pump Station

Code	Description	Quantity	Unit	Rate	Amou	unt
	015, JOB SITE CHARGES					
7517	Acid Sulphate Soil Treatment	1	Item	\$ 16,623.8	9 \$	16,623.89
7507	Environmental Compliance	1	Item	\$ 3,925.9	Э \$	3,925.90
7500	Establishment, Large (Including Plant Transport)	1	Item	\$ 3,562.5	2 \$	3,562.52
7480	Principal Project Management	1	Item	\$ 5,315.0	3 \$	5,315.03
7508	Traffic Control and Guidance & 5099	1	Item	\$ 46,609.9	2 \$	46,609.92
7633	Purchase of Easements - Charles St	2	Item	\$ 75,000.0	) \$	150,000.00
	020, DRAINAGE					
7522	Stormwater Pipes - 600mm Diameter	380	Metres	\$ 614.5	3 \$	233,540.40
7551	Headwalls. (Precast)	4	Each	\$ 2,676.9	4 \$	10,707.74
7541	Inlet Pits (<1.5m Deep)	6	Each	\$ 5,620.9	3 \$	33,725.59
7565	Open Drains	200	Metres	\$ 33.7	3 \$	6,746.40
	030, PAVEMENT					
7603	Reinstate Reynolds St - Base Material	520	Tonne	\$ 97.8	7 \$	50,893.44
7603	Reinstate Tumbulgum Rd - Base Material	25	Tonne	\$ 127.1	2 \$	3,177.90
7603	Reinstate Charles St - Base Material	25	Tonne	\$ 127.1	2 \$	3,177.90
	035, WEARING SURFACE					
7610	Prime Coat	1,225.00	M2	\$ 9.7	8 \$	11,980.50
7614	Asphalt	1,225.00	M2	\$ 20.9	9 \$	25,710.30
	040, MINOR WORKS					
7631	Adjust Water Main, Services	4	Item	\$ 1,267.3	9 \$	5,069.57
7624	Footpath & Cycleway Construction	1	M2	\$ 3,504.19	9 \$	3,504.19
7628	Landscaping, Revegetation, Restoration	1	Item	\$ 7,205.2	) \$	7,205.20
7630	Service Locations	1	Item	\$ 578.9	3 \$	578.96
7620	Temporary Fencing	50	Metres	\$ 40.5	0 \$	2,025.00
7654	Linemarking	1,440.00	Metres	\$ 1.1	4 \$	1,641.60
7629	Adjustments to Properties, Including Access	2	Item	\$ 4,637.0	€ \$	9,274.18
7632	Alterations to Sewer Services, Fittings	4	Item	\$ 1,267.3	Э \$	5,069.57
7620	Fencing and Bollard Lines	20	Metres	\$ 85.3	) \$	1,705.92
7621	Gates and Accesses	2	Item	\$ 540.0	) \$	1,080.00
				Sub-Total	\$	642,851.62
	COSTS, INDIRECT COSTS					
COST		1	Item		\$	324,640.23

Total (rounded) \$970,000.00