

# Southern Queensland Region 2020–21 Project Pipeline Industry Briefing

Ms Kym Murphy  
Southern Queensland Regional Director



An aerial photograph showing the construction of a large roundabout. The central island is a large, circular area of gravel with some vegetation. The roundabout has multiple lanes and is surrounded by green grass and trees. A road runs alongside the roundabout, and a small white car is visible on it. The background shows more trees and a road.

# **Our region**

## **Southern Queensland Region**

**Ms Kym Murphy**  
**Regional Director**

**Mr Dereck Sanderson**  
**District Director**  
**Darling Downs**

**Mr Roger Hacquoil**  
**District Director**  
**South West**

**Mr Hendrik Roux**  
**District Director**  
**Wide Bay/Burnett**



# Our program – focus areas of investment

- Bruce Highway Upgrade Program
- Warrego Highway East Masterplan
- Targeted Road Safety Program
- Roads of Strategic Importance (ROSI) Program
- Stimulus Works Program.



# Our program approach – associated challenges

Top challenges	Description
PUP investigations inadequate	<ul style="list-style-type: none"><li>• Services found during construction phase not identified in design.</li></ul>
People	<ul style="list-style-type: none"><li>• Internal TMR capacity – Planning and Contract Administration</li><li>• Availability of suitable external resources (via ECS*) to assist in the delivery of the Planning Program</li><li>• Infrastructure projects in the market concurrently (including infrastructure projects in other states) – high demand for quality human resources</li><li>• Contract resourcing – a limited pool of contract resources with the necessary skills and experience. High demand of specialised skills in Delivery and Operations, Materials Lab and Survey Resources.</li></ul>

\*ECS – Engineering Consultancy Scheme

# Our program approach – associated challenges

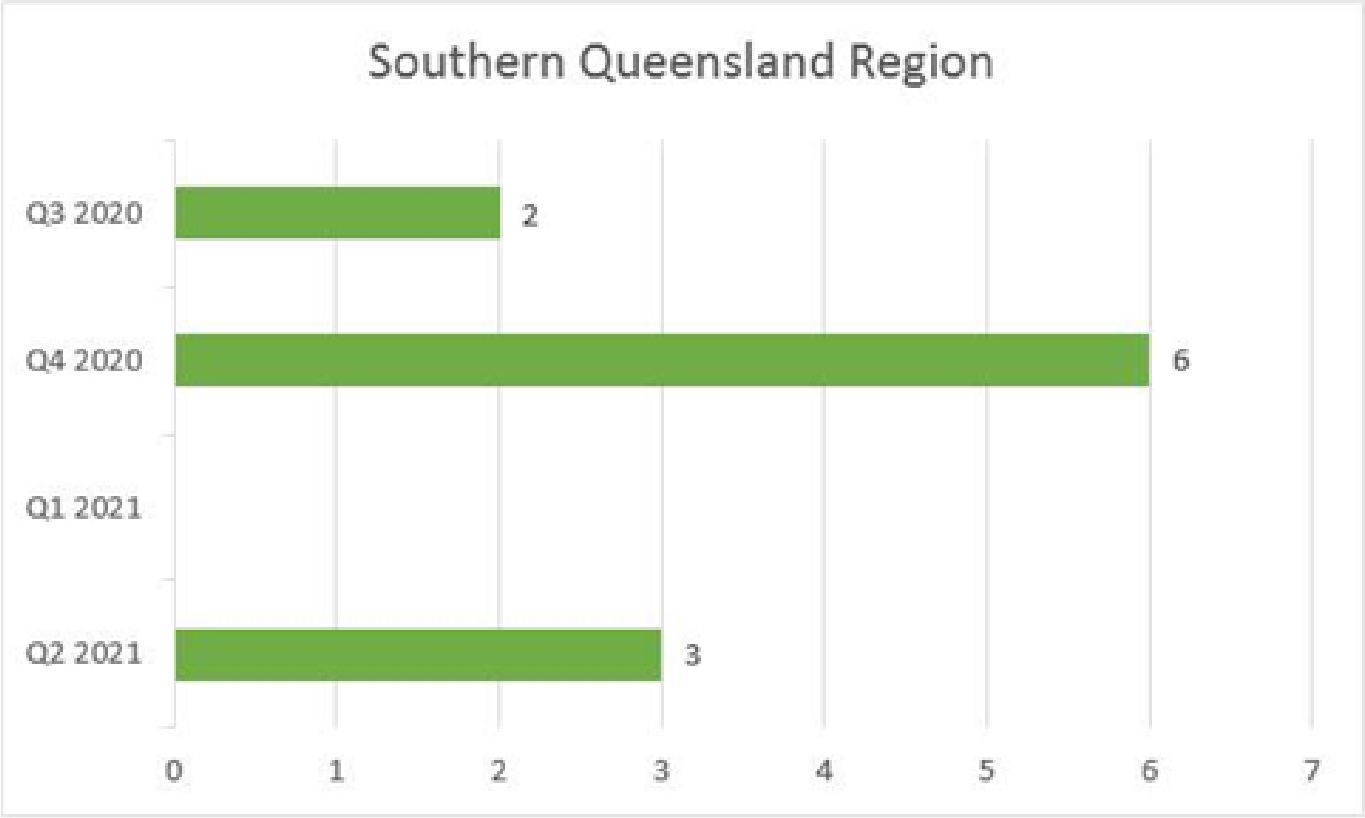
Top challenges	Description
Weather	<ul style="list-style-type: none"><li>• Drought – accessible water resources are limited, particularly in southern areas.</li></ul>
COVID-19	<ul style="list-style-type: none"><li>• Ability to liaise with stakeholders has been limited, particularly Cultural Heritage monitors.</li></ul>
Materials	<ul style="list-style-type: none"><li>• Gravel – limited availability of pre-qualified pits.</li></ul>
Ground conditions	<ul style="list-style-type: none"><li>• Black soil commonly found. Has a clay texture that cracks open when dry, it forms hummocky relief called gilgai, and swells considerably during wetting.</li></ul>

# Our program – to be tendered in 2020–21

Project contract values	2020–21	
	Number of projects	\$(M)
Planning	11	1.6
Detailed Design	7	5.4
Construction ≤ \$5M	7	21.4
Construction > \$5M to \$25M	12	148.7
Construction > \$25M to \$100M	1	80
Maintenance	8	25

# 2020–21 Procurement for planning per quarter

Seeking to procure \$1.6M of planning services from the market in 2020–21



Approximate number of tenders called per quarter

# Design – key planning projects

Project name	District	Work type	Procurement method	Approximate quarter to be called	Estimated contract value (\$M)
Warrego Highway Jackson-Wandoan Road intersection planning	South West	Business Case	Open invitation, pre-qualified	Q3 2020	0.09
Booral Road, Bunya Creek floodway upgrade, planning	Wide Bay/ Burnett	Options Analysis	Select invitation, pre-qualified	Q3 2020	0.2
New England Highway (Toowoomba-Warwick), strengthening and widening business case	Darling Downs	Business Case	Open invitation, pre-qualified	Q4 2020	0.18

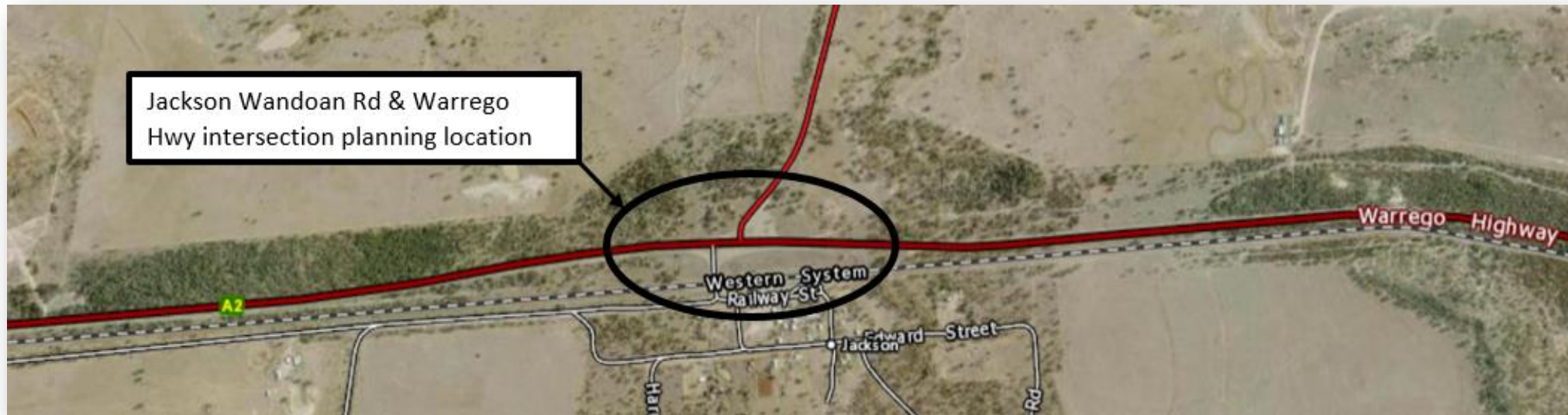


# Design – key planning projects

Project name	District	Work type	Procurement method	Approximate quarter to be called	Estimated contract value (\$M)
Kingaroy-Cooyar Road, Tanduringie Creek bridge replacement, planning	Wide Bay/ Burnett	Business Case	Select invitation, pre-qualified	Q2 2021	0.2
Oakey-Pittsworth Road, strengthening and widening business case	Darling Downs	Business Case	Open invitation, pre-qualified	Q2 2021	0.08
Gayndah-Mount Perry Road, Spring Creek bridge replacement, planning	Wide Bay/ Burnett	Business Case	Select invitation, pre-qualified	Q2 2021	0.2

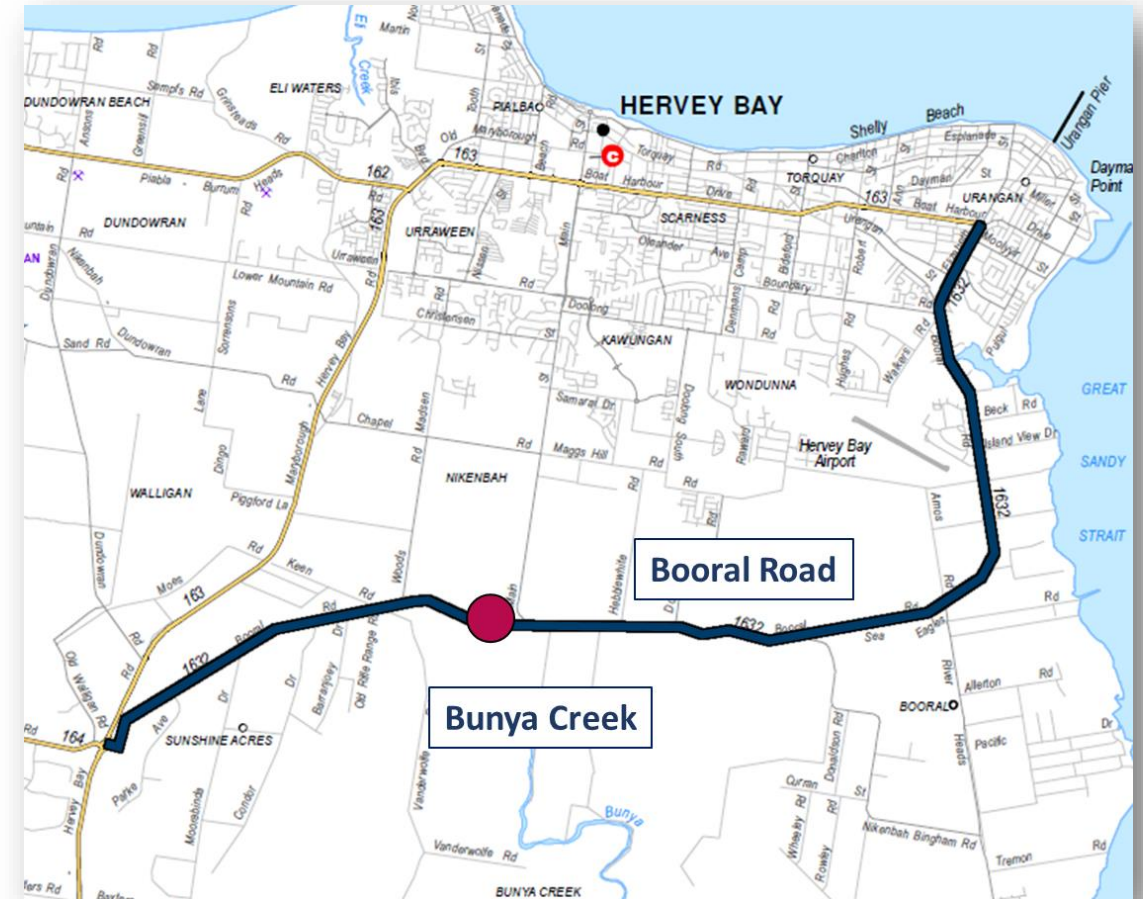
# Jackson Wandoan Road and Warrego Highway Intersection Planning

- Development of Type-2 Business Case for the upgrade of the Warrego Highway/Wallumbilla South Road intersection addressing conflicts and geometric deficiencies
- Possible pre-qualification requirements are: HE2, TE2 and TP2.



# Bunya Creek floodway upgrade on Booral Road

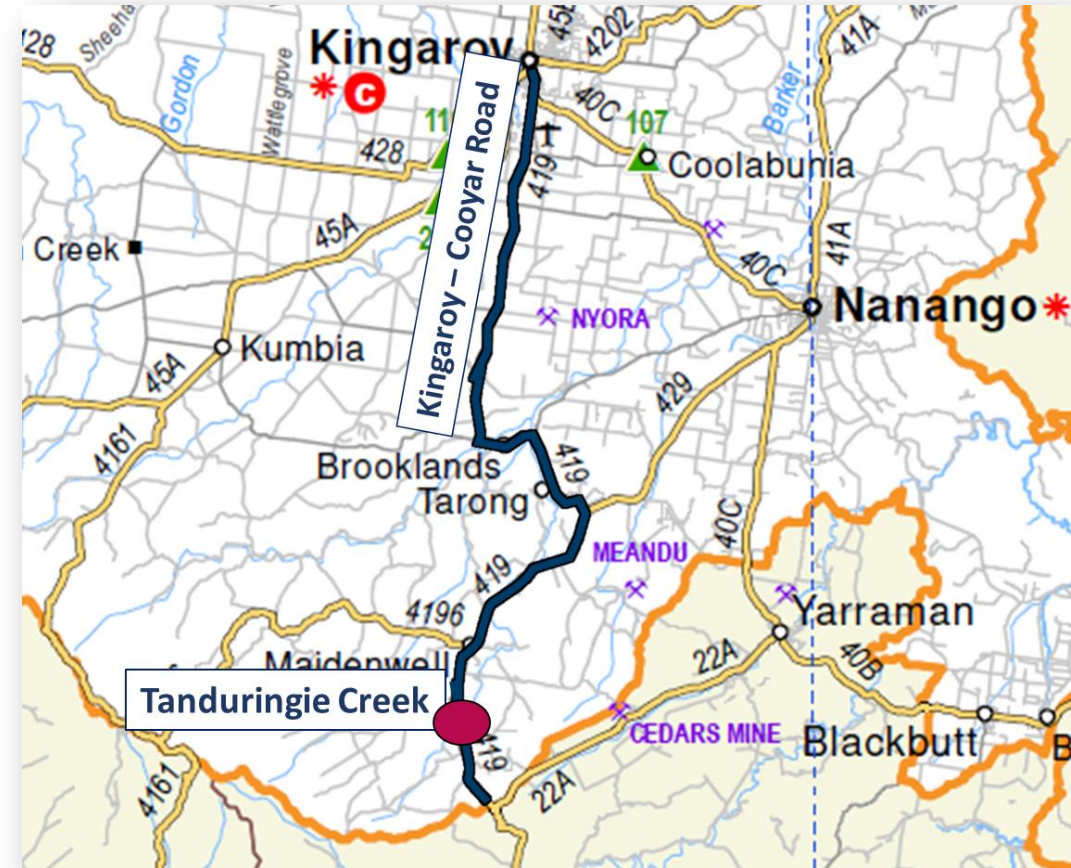
- Development of Type-2 Options Analysis for the upgrade of the Bunya Creek floodway on Booral Road, near Main Street intersection
- Possible pre-qualification requirements are HD3 and TP2
- Approximate quarter to be called – Q3 2020.





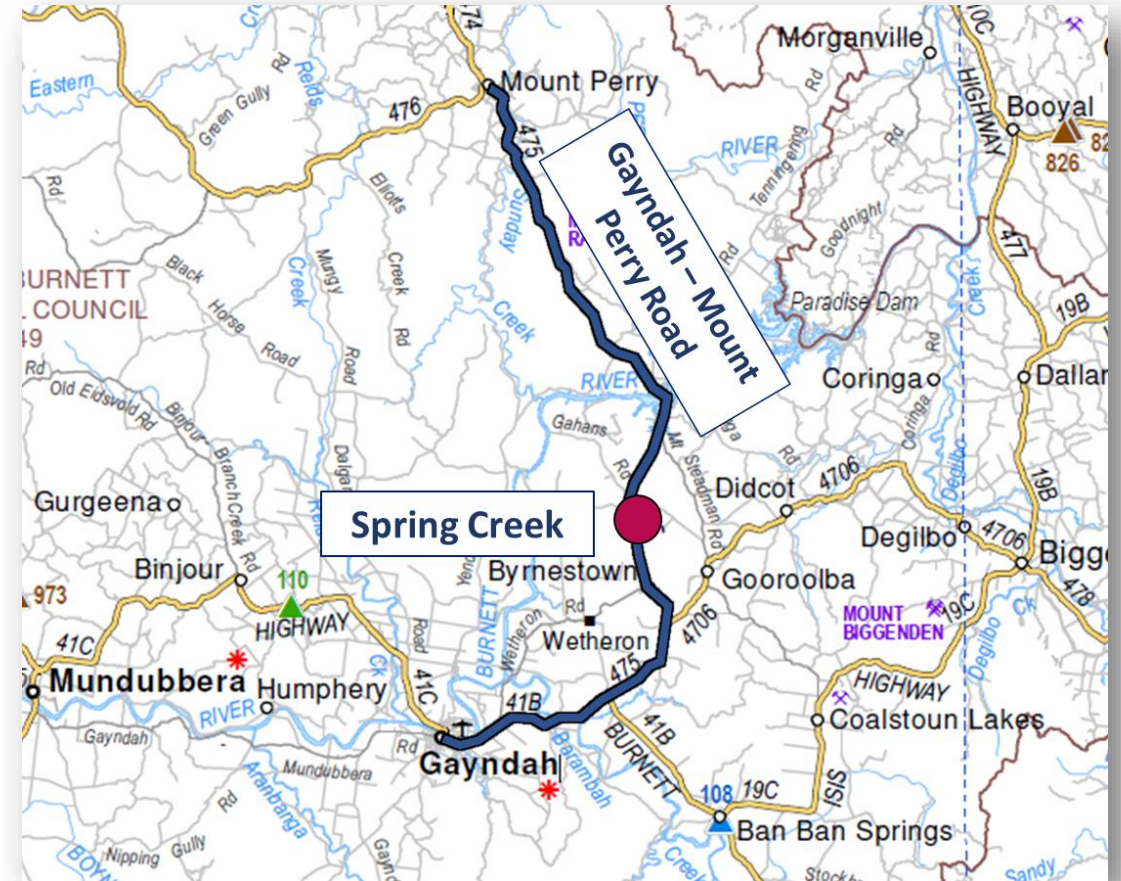
# Kingaroy-Cooyar Road, Tanduringie Creek timber bridge replacement

- Development of Type-2 Business Case for the replacement of the Tanduringie Creek timber bridge on Kingaroy-Cooyar Road
- Possible pre-qualification requirements are HD2 and TP2
- Approximate quarter to be called – Q2 2021.



# Gayndah-Mount Perry Road, Spring Creek timber bridge replacement

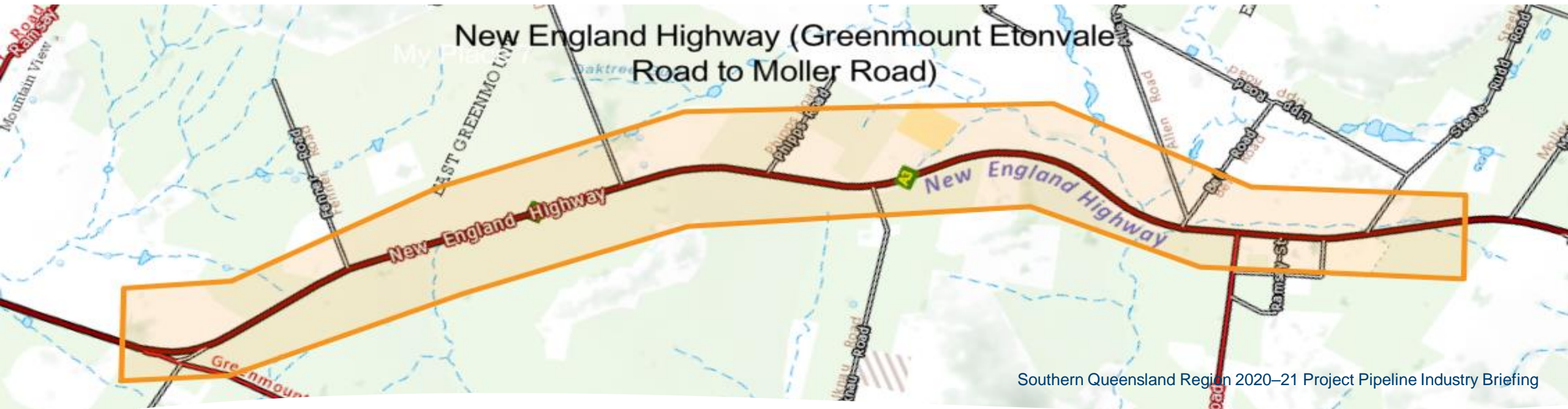
- Development of Type-2 Business case for the replacement of the Spring Creek timber bridge on Gayndah-Mount Perry Road
- Possible pre-qualification requirements are HD2 and TP2
- Approximate quarter to be called – Q2 2021.





# New England Highway Strengthening and Widening planning

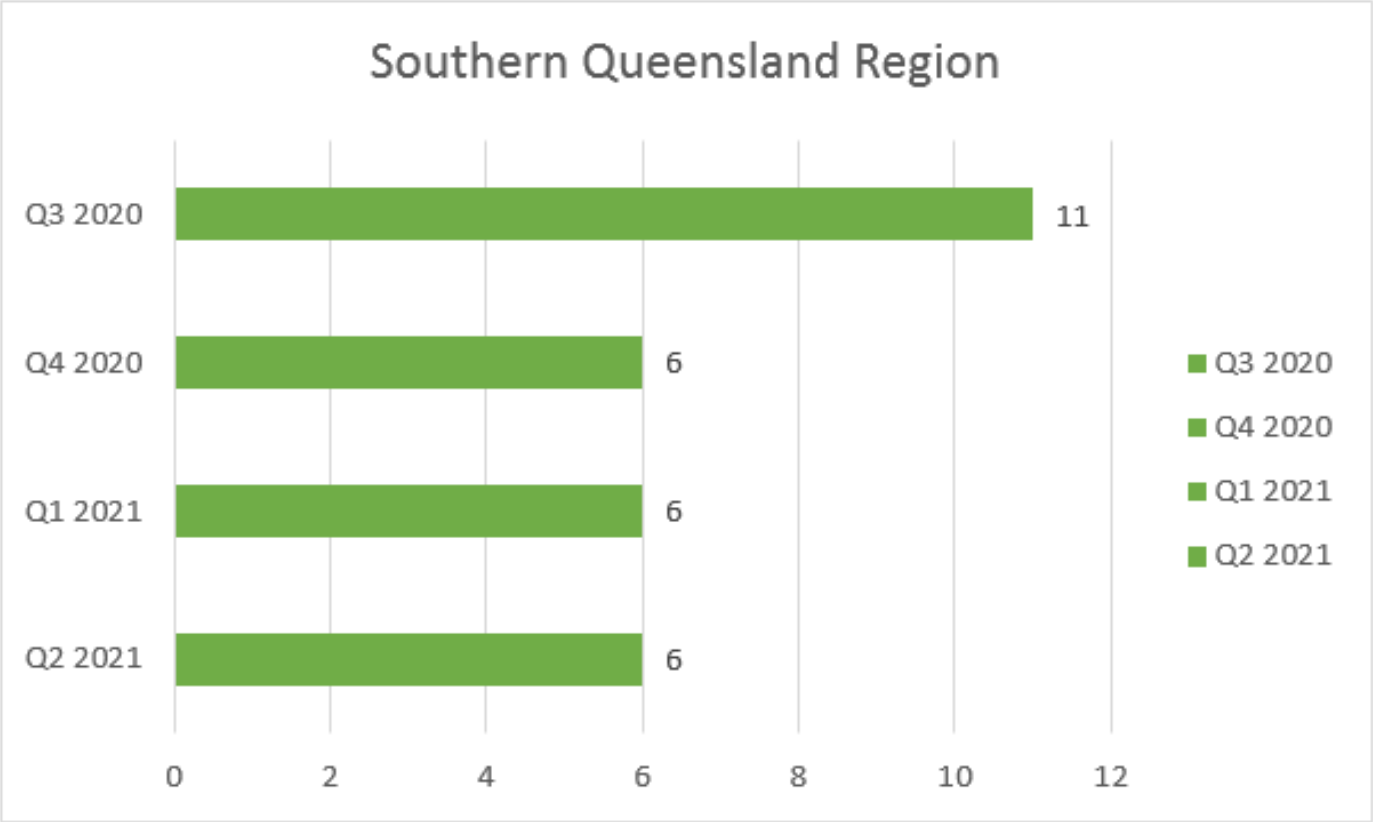
- Planning investigations for widening and strengthening the New England Highway between Toowoomba and Warwick
- Development of a Type-2 Business Case
- Possible pre-qualification requirements
  - HE1; HD1; TE1.





# 2020–21 Procurement for detailed design and construction per quarter

Seeking to procure \$258.8M of services from the market in 2020–21.



Approximate number of tenders called per quarter

# Design – key design projects

Project name	Scope	Contract type	Procurement method	Approximate quarter to be called	Estimated contract value (\$M)
Tiaro Bypass	Detailed Design for 2 Laned Bypass	CFEP*	Select invitation, pre-qualified	BD2 / GE2/ HE2 / HD2 / TP2	Q1 2021

\*CFEP – Consultants for Engineering Project

# Construction projects ≤\$5M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Carnarvon Highway (Mungindi-St George) and Castlereagh Highway, intersection upgrade; and Carnarvon Highway (St George-Surat) and Salmon Road, intersection upgrade	Intersection upgrades; Provision of CHR(s) and AUL turn treatments and some construction on secondary roads to improve geometry	TIC-CO*	Open tender	R3	Q3 2020	3.15

\*TIC-CO – Transport Infrastructure Contract-Construct Only



# Construction projects ≤\$5M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
South West reseal bitumen 2020–21, various state roads and national highways – West	Sprayed bitumen reseal	TIC-CO	Open tender	R2	Q3 2020	4.1
Bruce Highway (Maryborough-Gin Gin) Various locations from Wongi to Nulla Flats	Intersection upgrades and roadside safety treatments	TIC-CO	Open tender	R3-R4 / F15	Q4 2020	4.7
Bruce Highway (Maryborough-Gin Gin); Various locations from Wongi to Nulla Flats	Road safety enhancement works	TIC-CO	Open tender	R3-R4 / F15	Q4 2020	With above

# Construction projects ≤\$5M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
South West reseal bitumen 2020–21, various state roads and national highways – East	Sprayed bitumen reseal	TIC-CO	Open tender	R2	Q4 2020	4.0
Isis Highway (Bundaberg-Childers); 13.03-14.80km	Construct overtaking lanes	TIC-CO	Open tender	R3-R4 / F15	Q1 2021	4.0
South West reseal asphalt 2020–21, various state roads and national highways	Asphalt surfacing	TIC-CO	Open tender	A2	Q1 2021	1.4

# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Bruce Highway (Maryborough-Gin Gin); Apple Tree Creek	Intersection upgrades and roadside safety treatments	TIC-CO	Open tender	R3-R4 / R15	Q2 2020	16.0
Burnett Highway (Gayndah-Monto); Three Moon Creek Bridge; 30km north of Eidsvold	Replace bridge/s and approaches	TIC-CO	Open tender	B3 / R2 / F10	Q2 2020	14.0

# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Bruce Highway (Maryborough-Gin Gin); North of Mixhills Road and South of Walla Island Road	Construct overtaking lanes and intersection upgrade	TIC-CO	Open tender	R3-R4 / F15	Q2 2020	10.0
New England Highway (Warwick-Wallangarra); 60.00-78.90km	Road safety improvements and installation of safety barriers	TIC-CO	Open tender	R3 / F20	Q2 2020	9.7



# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
New England Highway (Warwick-Wallangarra); 60.00-78.90km	Road safety improvements and installation of safety barriers	TIC-CO	Open tender	R3 / F20	Q3 2020	7.5
Bruce Highway (Gympie-Maryborough) Wide Bay Highway Intersection	Intersection upgrade and roadside safety treatments	TIC-CO	Open tender	R3-R4 / F15	Q3 2020	12.7

# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Roma – Condamine Road; Tchanning Creek Bridge	Replace bridge/s	TIC-CO / TIC-SI	Open tender / Sole invitee	B2 / R2 / F10	Q3 2020	7.2
Bruce Highway (Gympie-Maryborough); 24.44 – 41.08km	Intersection upgrades	TIC-CO	Open tender	R3-R4 / F15	Q3 2020	6.0
Cunningham Highway (Ipswich-Warwick); Eight Mile intersection	Intersection upgrade	TIC-CO	Open tender	B2 / R3 / F20	Q4 2020	17.0
Bruce Highway (Gympie-Maryborough) 4 Mile, 5 Mile and 6 Mile Roads	Intersection upgrades and roadside safety treatments	TIC-CO	Open tender	R3-R4 / F15	Q1 2021	8.7

# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Bruce Highway (Gin Gin-Benaraby) 11.6 – 37.13km	Pavement work, road safety enhancement works and upgrade and construction of new rest areas	TIC-CO	Open tender	R3-R4 / F15	Q1 2021	5.4
Torbanlea-Pialba Road 3.2-6.2km	Construct a new concrete bridge over Beelbi Creek and upgrade intersections	TIC-CO	Open tender	R3-R4 / F15	Q2 2021	22.0

# Construction projects >\$5M to \$25M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Bruce Highway (Maryborough-Gin Gin) Adies Road-Ringwood Road	Widening, intersection upgrade and road safety enhancement works	TIC-CO	Open tender	R3-R4 / F15	Q2 2021	12.5
Gore Highway (Toowoomba-Millmerran), (35-75km)	Pavement rehabilitation	TIC-CO	Open tender	TBA	Q1 2022	12.0

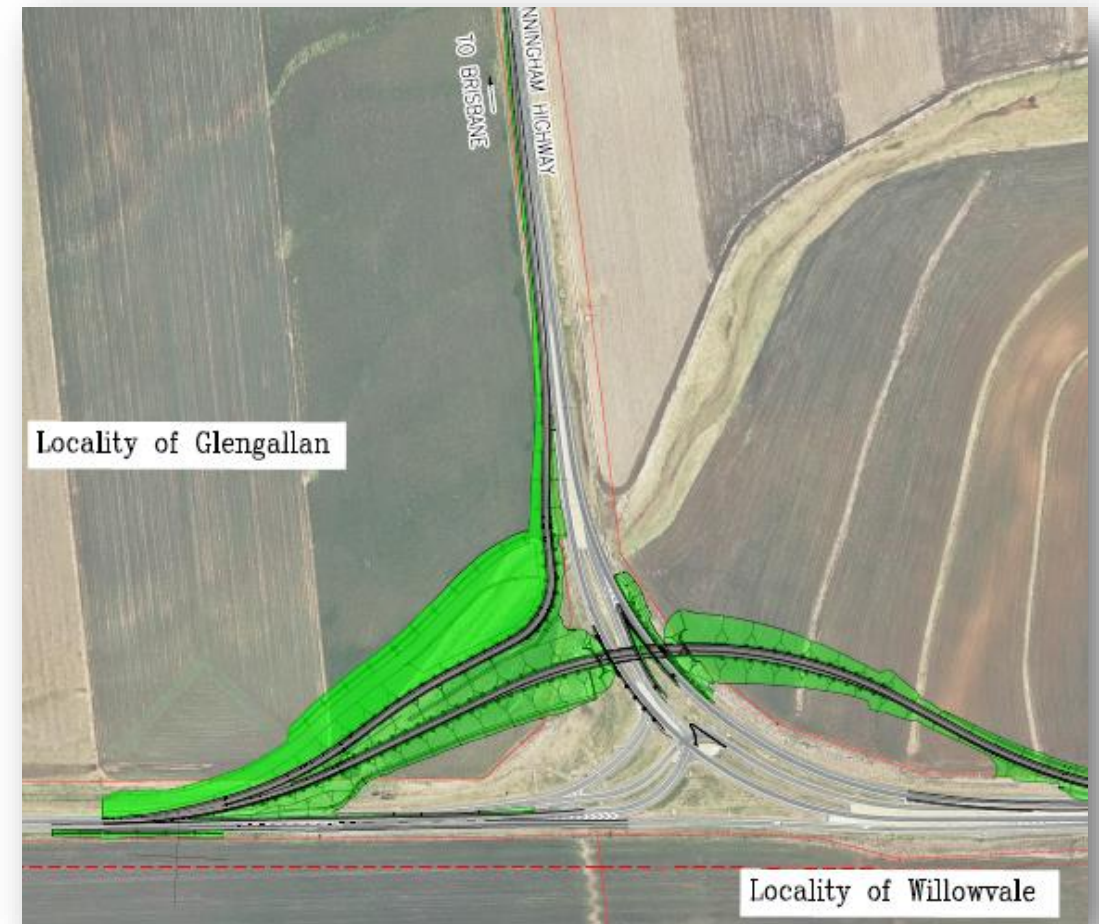


# Construction projects >\$25M to \$100M

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Bruce Highway (Maryborough-Gin Gin); Saltwater Creek bridge upgrade	Construct bridge/s and approaches/ upgrade four existing floodway sections	TIC-CO	Open tender	B4 / R4 / F50-75	Q4 2020	80.0
Bruce Highway (Gympie-Maryborough) Tiaro Bypass	Construct a new two-lane bypass of Tiaro	TIC-CO	Open tender	B4 / R4 / F50-75	Q2 2022	80.0

# Eight Mile intersection upgrade

- \$17M estimated contract value
- Provide a single lane overpass for the right turn New England Highway motorist to safely cross the Cunningham Highway and re-join via a merge south of the intersection
- Remove the existing at-grade conflict point between the two highways providing a safer motoring experience
- A new left turn facility with an acceleration lane for New Highland Highway motorists travelling from Toowoomba to Brisbane.



# Eight Mile Intersection Upgrade

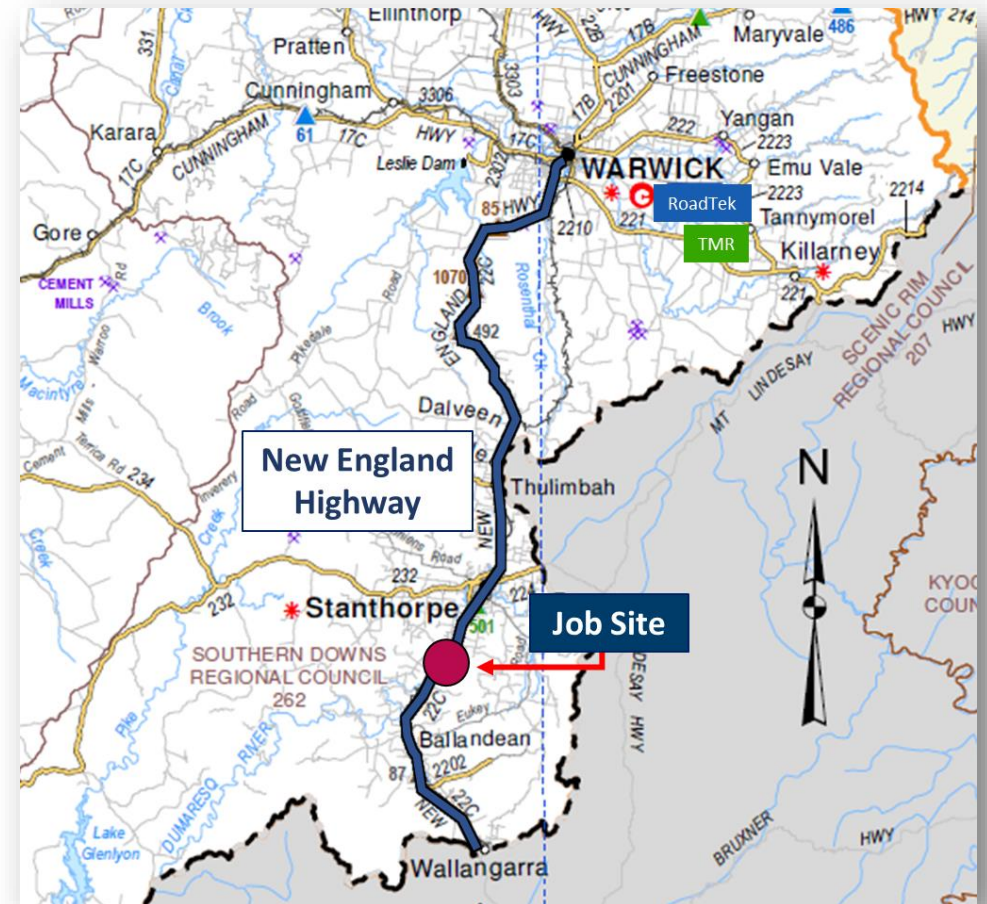
## Risks and delivery mechanism

Key risks		Contract type	
Stakeholder management		Transport Infrastructure Contract – construct only	
Traffic management			
Design and Construction management		Pre-qualification level	
		BD2, R3, F20	
Timetable		Date	
Contract award		Q4 2020	
Start of construction		Q1 2021	
Complete construction		Q2 2022	



# New England Highway (NEH) High Risk Roads Safety Improvements

- \$17.2M estimated contract value
- Incorporate wide centre line treatment from Stanthorpe Bypass to Ballandean, through the provision of road widening (over 9km in four sections)
- Safer roadsides through the provision of traversable clear zones, installation of barriers and hazard clearing along roadsides
- Intersection improvements, line-marking, signage and other improvements.



# NEH High Risk Roads Safety Improvements

## Risks and delivery mechanism

Key risks	Contract type
Stakeholder management	Transport Infrastructure Contract – construct only
Traffic management	Contract 1 – Packages 4 and 5
Design and Construction management	Contract 2 – Packages 1 and 7
Ground conditions (granite country)	
	Pre-qualification level
	R3, F20
Timetable	Date
Contract 1 award	Q2 2020
Contract 2 award	Q3 2020
Start of construction	Q3 2020
Complete construction	Q4 2021

# Torbanlea-Pialba Road (Beelbi Creek Bridge)

- \$22M estimated contract value
- Construct a new concrete bridge at Beelbi Creek
- Upgrade floodway at Antill Road
- Upgrade floodway at Grabbes/Gear Road
- Intersection upgrades and road realignment to design standards.



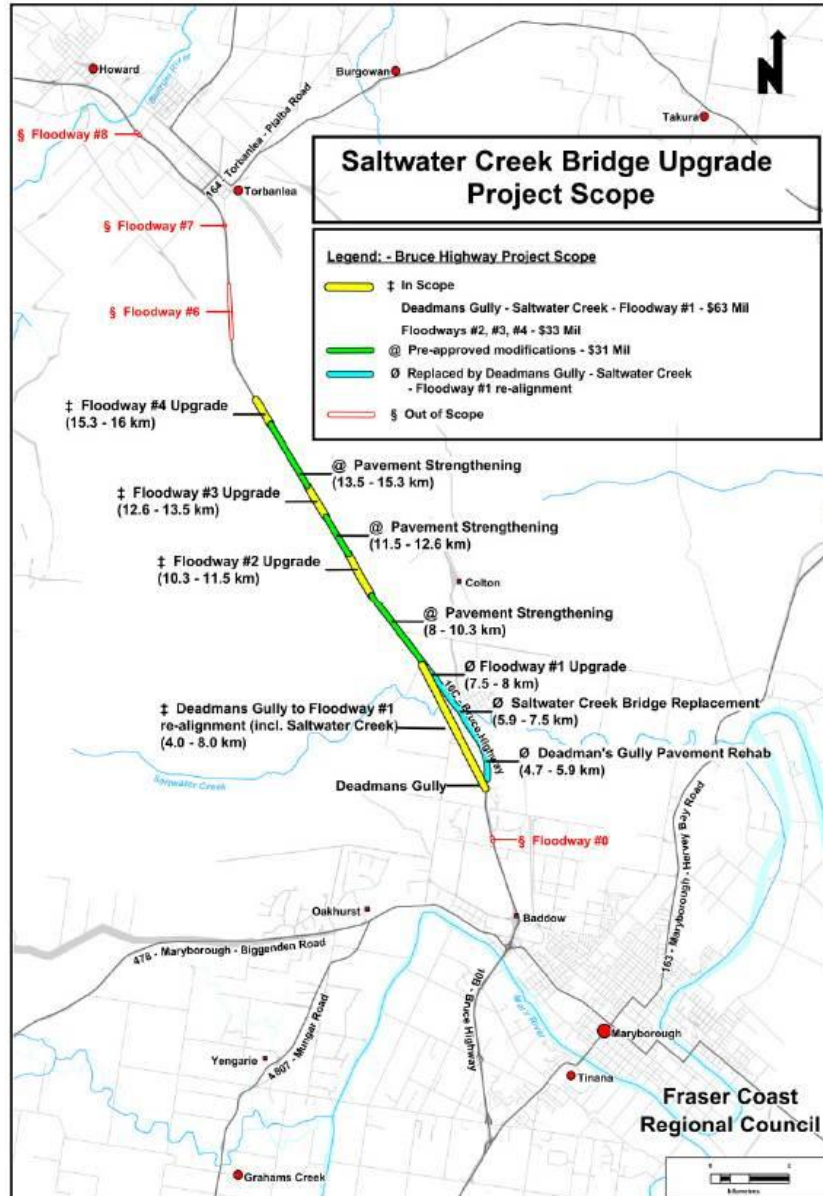


# Torbanlea-Pialba Road (Beelbi Creek Bridge)

## Risks and delivery mechanism

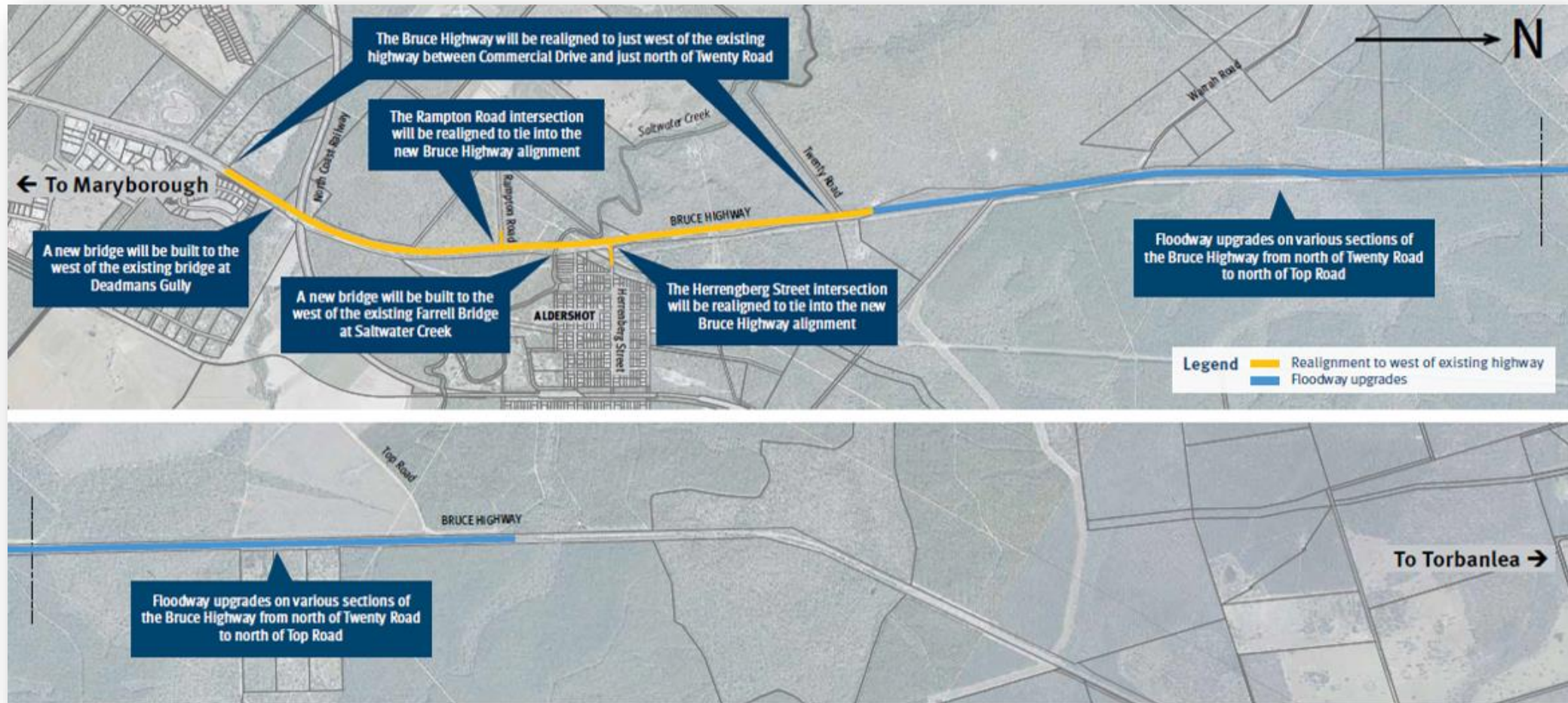
Key risks		Contract type	
Environmental (aquatic and koalas)		Transport Infrastructure Contract – construct only	
Programming to avoid wet season		Single stage process	
Ground conditions		Pre-qualification level	
		B4 / R4 / F50-75	
Timetable		Date	
Contract award		Q4 2021	
Start of construction		Q4 2021	
Complete construction		Q1 2023	

# Saltwater Creek Bridge and Floodways Upgrade



- \$80M estimated contract value
- Construct two high level bridges and approaches on a new alignment at Saltwater Creek and Deadman's Gully crossings of the Bruce Highway north of Maryborough
- Upgrade four existing floodway sections north of Saltwater Creek between Aldershot and Torbanlea to improve flood immunity.

# Saltwater Creek Bridge and Floodways Upgrade



# Saltwater Creek

## Risks and delivery mechanism

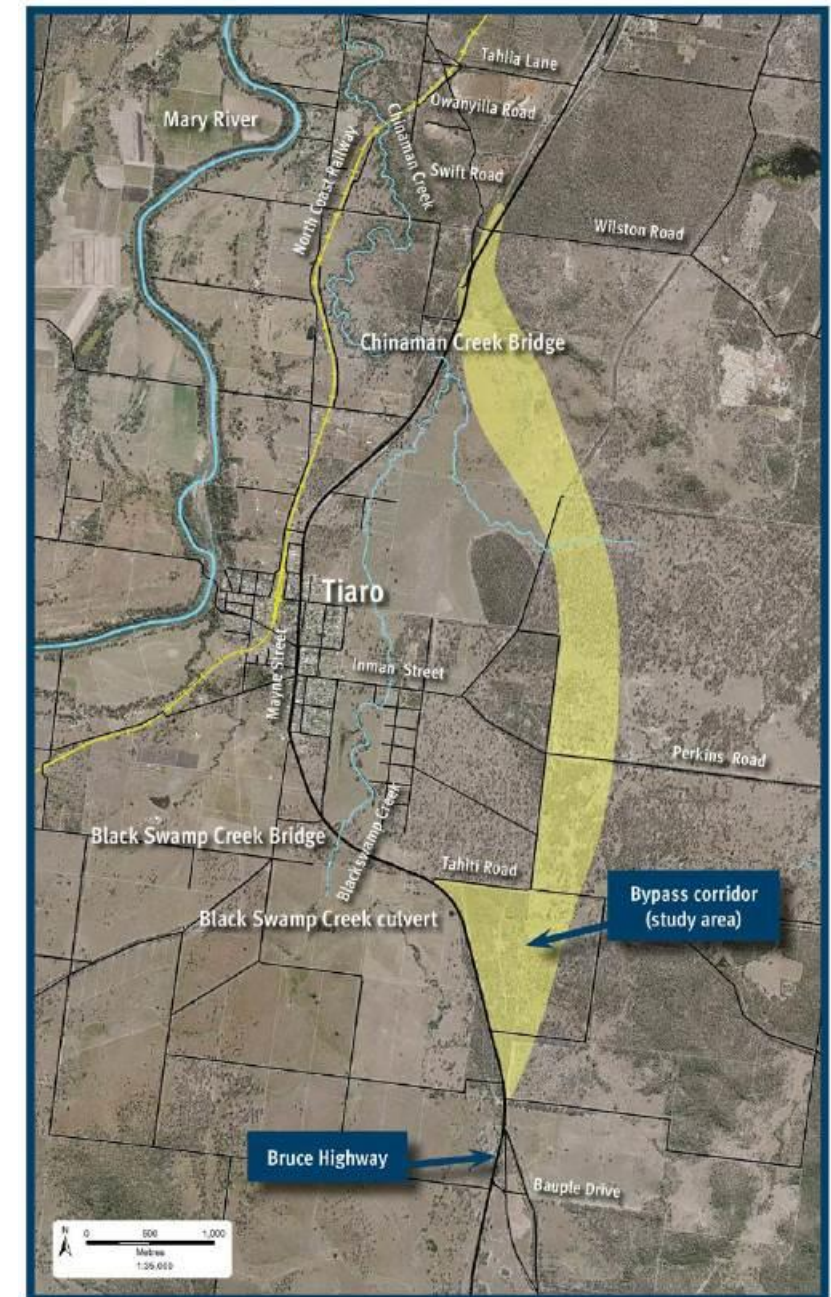
Key risks		Contract type	
Traffic management		Transport Infrastructure Contract – construct only	
Railway interface		Single stage process	
Public utility plant (PUP) relocations		Pre-qualification level	
		B4 / R4 / F50-75	
Timetable		Date	
Contract award		Q1 2021	
Start of construction		Q2 2021	
Complete construction		Q4 2023	



# Tiaro Bypass

- \$80M estimated contract value
- Two-lane highway on a new alignment to the east of Tiaro
- Q100 flood immunity (main alignment)
- Corridor allows for future four-laning
- Wide centre median to separate opposing directions of traffic
- 100km/hr speed posted limit
- Connectivity to Tiaro township.

\*Indicative Contract Value subject to further planning and Australian Government approval





# Tiaro Bypass

## Risks and delivery mechanism

Key risks		Contract type	
COVID-19		Transport Infrastructure Contract – construct only	
Potential Infrastructure Australia assessment required		Single stage process	
Traffic Management		Pre-qualification level	
		B4 / R4 / F50-75	
Timetable		Date	
Contract award		Q3 2022	
Start of construction		Q3 2022	
Complete construction		Q3 2024	

# The Queensland Economic Recovery Strategy: Unite and Recover for Queensland jobs

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
New England Highway (Yarraman–Toowoomba): Pavement strengthening and widening	Darling Downs	Pavement Strengthening and Widening	Sole Invitee	Q4 2020	13.9	8.8
Barwon Highway (Talwood–Nindigully): Pavement widening	Darling Downs	Pavement Strengthening and Widening	Sole Invitee	Q4 2020	6.25	5
Gatton-Helidon Road: Lockyer Creek – strengthen portal frames	Darling Downs	Structures Strengthening and Replacement	Sole Invitee	Q4 2020	3.6	2.8

# The Queensland Economic Recovery Strategy:

## Unite and recover for Queensland Jobs

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Murphy's Creek Road: Rocky Creek Bridge – Replace single lane concrete bridge	Darling Downs	Structures Strengthening and Replacement	Sole invitee	Q2 2021	11	8.5
Monto-Mount Perry Road: Progressive sealing	Wide Bay/ Burnett	Progressive Sealing	Sole invitee	Q3 2021	8	5.6
Carnarvon Highway (Surat-Roma): Replace steel culvert	South West	Structures Strengthening and Replacement	Sole invitee	Q4 2021	3.6	2.3

# Australian and Queensland Government joint infrastructure stimulus package

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Mitchell Highway (Cunnamulla-Charleville): Seal widening of priority sections	Seal widening of priority sections	TIC-SI	Sole invitee	R2	Q1 2021	2.9
Diamantina Developmental Road (Charleville-Quilpie): Widen priority sections to eight metre bitumen seal (Murweh)	Widen priority sections to eight metre bitumen seal	TIC-SI	Sole invitee	R2	Q3 2020	1.4

# Australian and Queensland Government joint infrastructure stimulus package

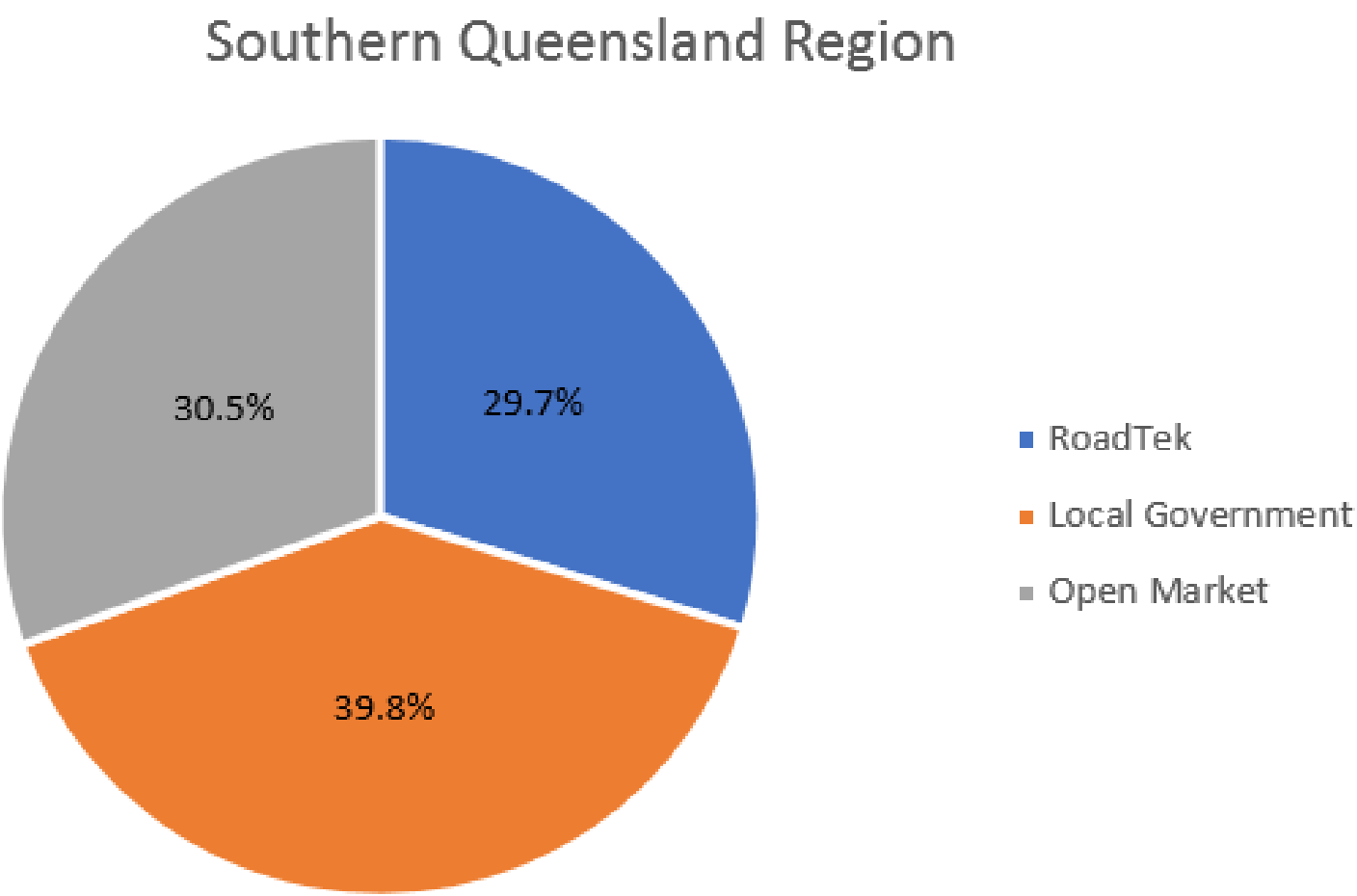
Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Diamantina Developmental Road (Charleville-Quilpie): Widen priority sections to eight metre bitumen seal (Quilpie)	Widen priority sections to eight metre bitumen seal	TIC-SI	Sole invitee	R2	Q1 2021	2.9
Balonne Highway (Bollon-Cunnamulla): Bollon West flood levee	Bollon West flood levee	TIC-SI	Sole invitee	R2	Q2 2021	1.2
Bulloo Developmental Road (Cunnamulla-Thargomindah): Widen priority sections	Widen priority sections	TIC-SI	Sole invitee	R2	Q1 2021	2.9



# Australian and Queensland Government joint infrastructure stimulus package

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Carnarvon Highway (Injune-Rolleston): Widen priority sections	Widen priority sections	TIC-SI	Sole invitee	R2	Q4 2020	2.9
Carnarvon Highway (Mungindi-St George): Widen priority sections	Widen priority sections	TIC-CO	Open tender	R2	Q4 2020	2.9
Carnarvon Highway (Roma-Injune): Widen and replace culvert	Widen and replace culvert	TIC-SI	Sole invitee	R2	Q2 2021	1.8
Roma-Condamine Road: Widening and strengthening in sections	Widening and strengthening in sections	TIC-SI	Sole invitee	R2	Q1 2021	2.9

# 2020–21 Maintenance, Preservation and Operations sector distribution



# 2020–21 Maintenance program

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Lockyer Valley Regional Council; Toowoomba Regional Council; Southern Downs Regional Council; Western Downs Regional Council; Goondiwindi Regional Council	Bitumen reseals (early package)	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	3.0
Toowoomba Regional Council; Southern Downs Regional Council	Bitumen reseals	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	3.5

# 2020–21 Maintenance program

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Western Downs Regional Council; Goondiwindi Regional Council	Bitumen Reseals	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	2.5
South Burnett Regional Council; Gympie Regional Council	Bitumen reseal on the State network	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	2.0

# 2020–21 Maintenance program

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Lockyer Valley Regional Council; Toowoomba Regional Council; Southern Downs Regional Council; Western Downs Regional Council; Goondiwindi Regional Council	Bitumen reseals (early package)	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	3.0
Toowoomba Regional Council; Southern Downs Regional Council	Bitumen reseals	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	3.5



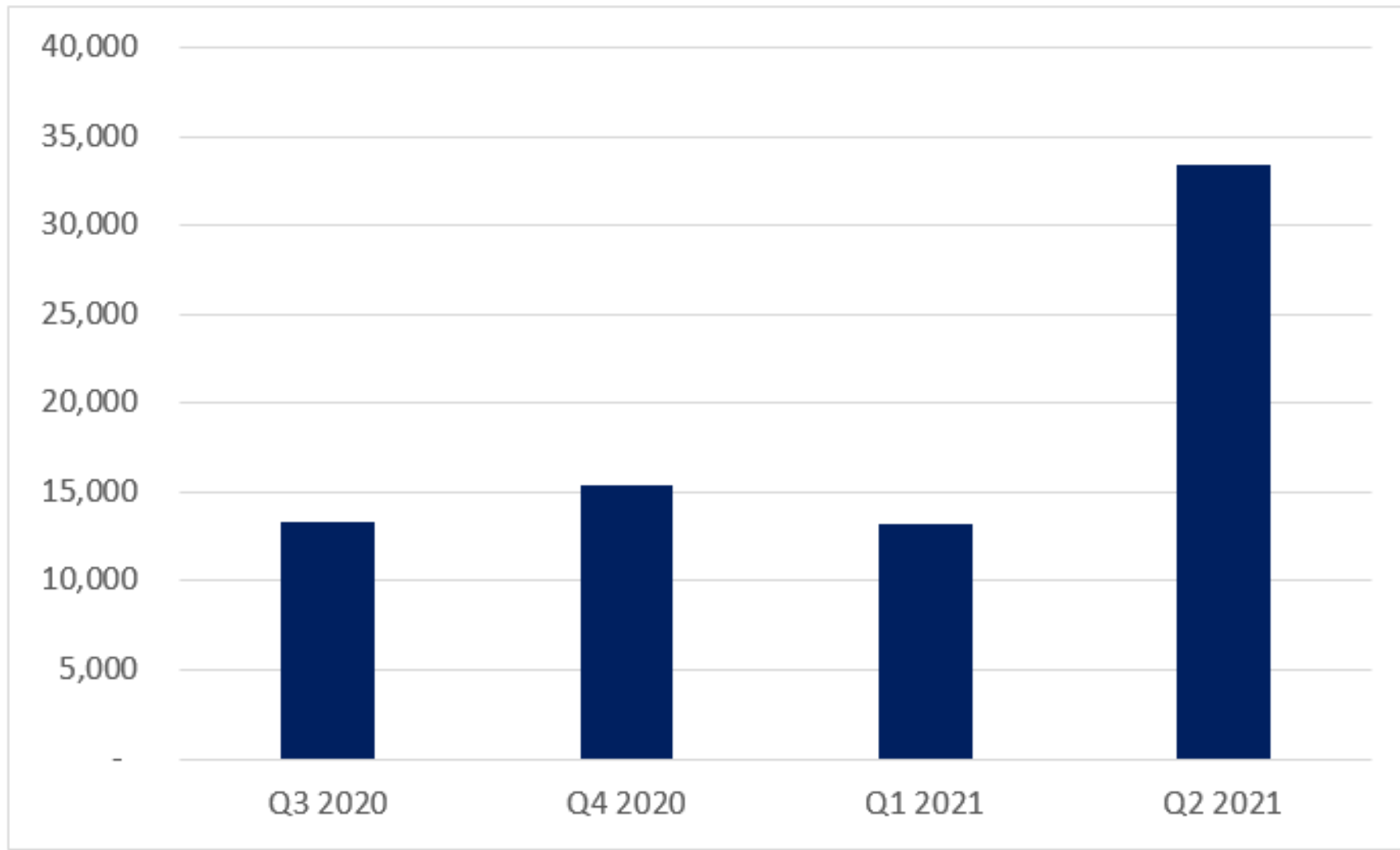
# 2020–21 Maintenance program

Project name	Work type	Contract type	Procurement method	Pre-qual levels	Approximate quarter to be called	Estimated contract value (\$M)
Western Downs Regional Council; Goondiwindi Regional Council	Bitumen Reseals	MIC–CO (Minor Works)	Open tender	Current Qld Sprayer Certification	Q3 2020	2.5
Western Downs Regional Council; Goondiwindi Regional Council	Micro-surfacing	MIC–CO (Minor Works)	Open tender	A4	Q3 2020	2.0

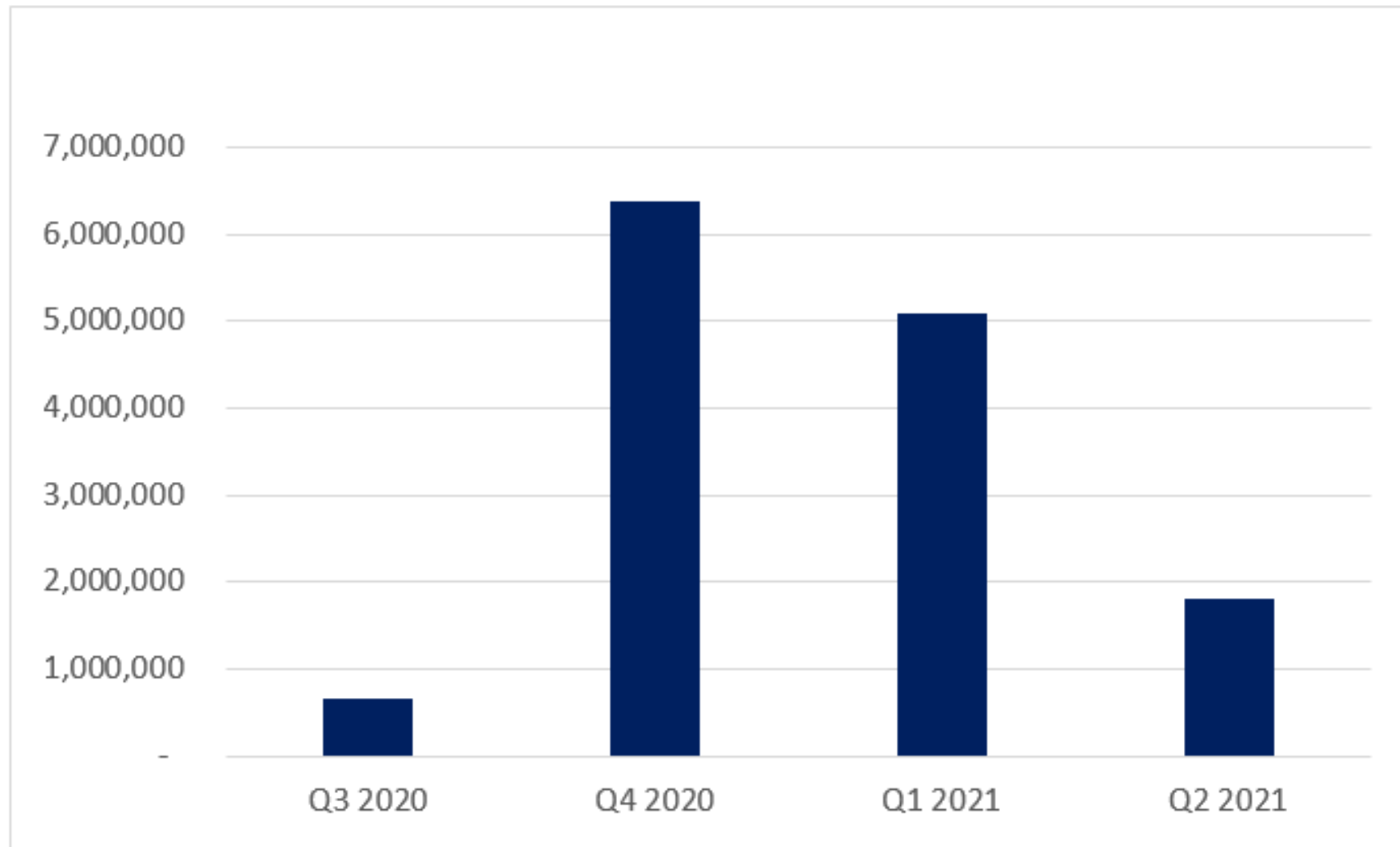


# Indicative material demand

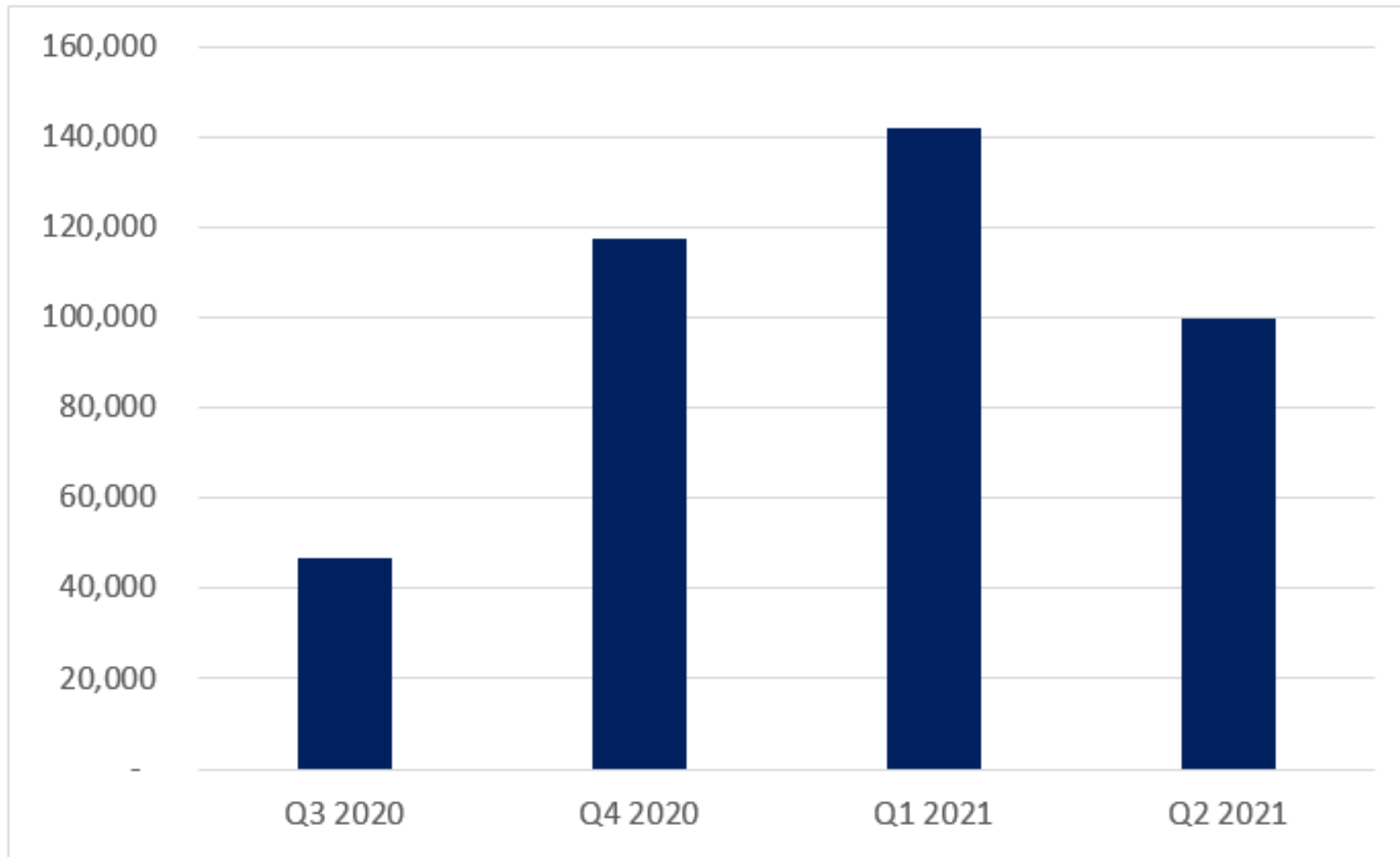
# Estimated asphalt demand (tonnes)



# Estimated bitumen demand (litres)

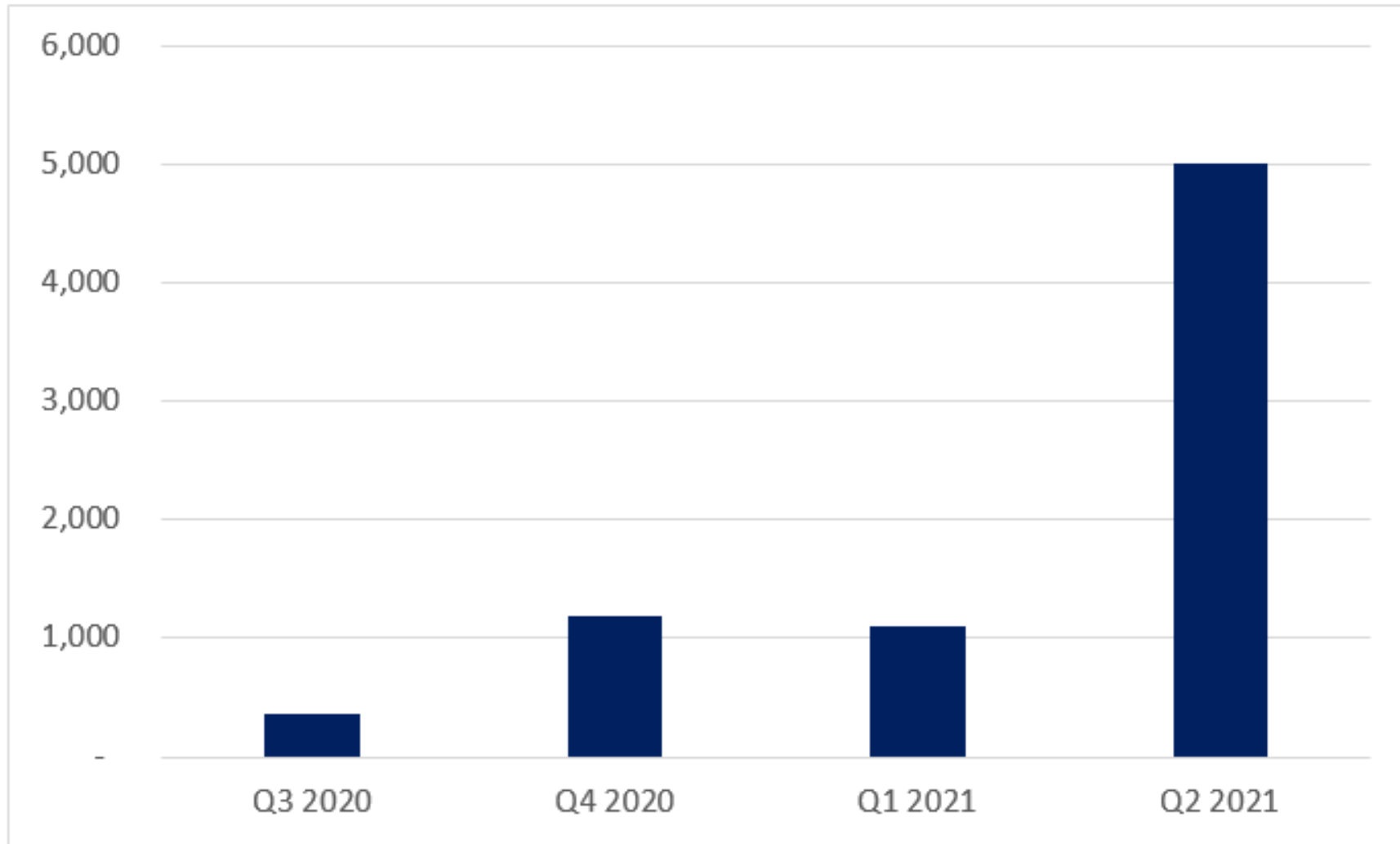


# Estimated granular demand (tonnes)

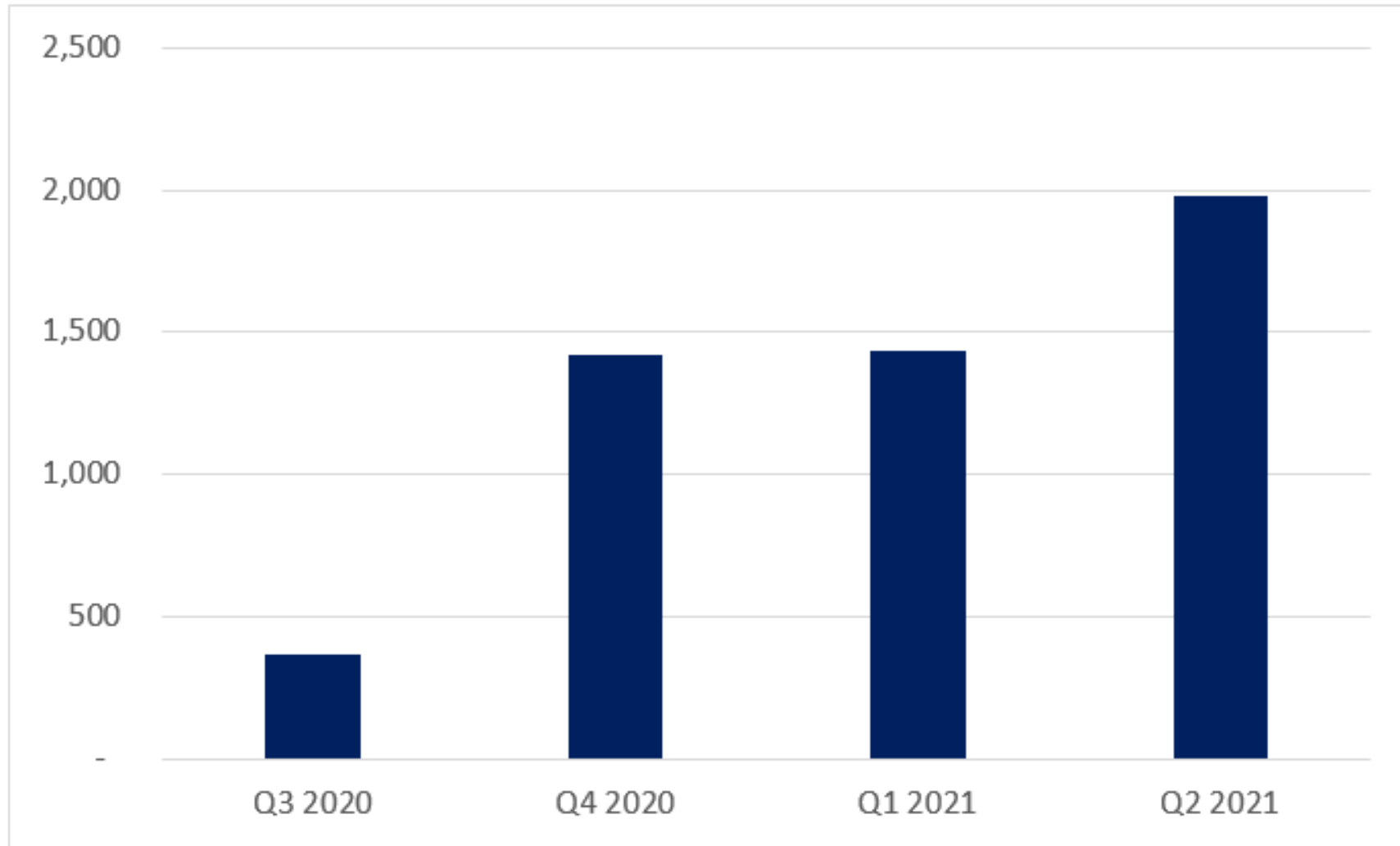




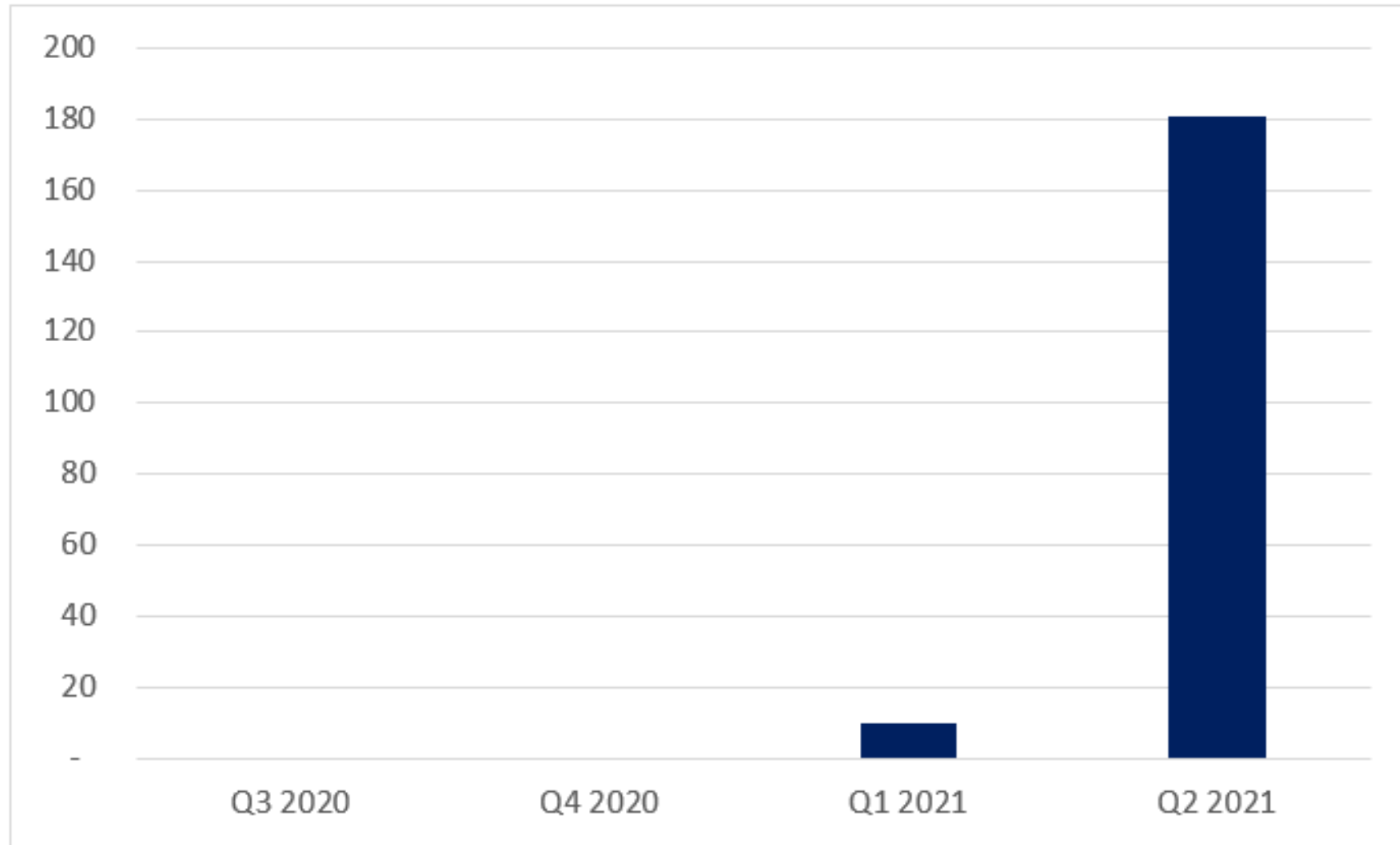
# Estimated concrete demand (m<sup>3</sup>)



# Estimated culvert demand (linear metres)



# Estimated deck unit demand



# Our 2020–21 program – External, industry-supplied workforce

Functional role requirement	Number of people – current			Number of people – required		
	Darling Downs	South West	Wide Bay Burnett	Darling Downs	South West	Wide Bay Burnett
Project Manager/Contract Administrator (Planning)		2	1		2	
Project Manager/Designer (Design)			1			
Design RPEQ Engineer (Design)	1.5			1		
Program/Project Manager (Delivery)	2		2	2		2
Contract Administrator (Delivery)	14			14		7

# Our 2020–21 program – External, industry-supplied workforce

Functional role requirement	Number of people – current			Number of people – required		
	Darling Downs	South West	Wide Bay Burnett	Darling Downs	South West	Wide Bay Burnett
Inspector (Delivery)	11			11		2
Engineer (Road Operations)	1			1		
Community Engagement Officer			1			
Soil Lab Technician		1			1	
Environmental			2			1
<b>Total</b>	<b>29.5</b>	<b>3</b>	<b>7</b>	<b>29</b>	<b>3</b>	<b>12</b>



# Our program – industry engagement

Queries for the Southern Queensland Region?

Email: [SQR\\_Communications@tmr.qld.gov.au](mailto:SQR_Communications@tmr.qld.gov.au)





# Thank you and stay connected



TMRQld



@TMRQld



Department of Transport and Main Roads



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