

QUEENSLAND FLOODS
COMMISSION OF INQUIRY

STATEMENT OF WAYNE EMANUEL SWEENEY

I, **Wayne Emanuel Sweeney**, of 77 Tavistock Street, Torquay in the State of Queensland, Director Infrastructure & Environment, Fraser Coast Regional Council, do solemnly and sincerely declare that:-

1. I have been provided with a copy of the letter dated 10 August 2011 from the Commissioner, Queensland Floods Commission of Inquiry requiring a sworn statement and documents from me which is Attachment **WS-1** and which details the topics my statement should cover.
2. I am a Registered Professional Engineer Queensland (RPEQ) and Director of Infrastructure & Environment with the Fraser Coast Regional Council ("Council"). I have been employed by Council and its statutory predecessor the Maryborough City Council since 1988, excluding a period between 1994 and 1996. I have worked in local government for approximately twenty three (23) years.
3. The Fraser Coast region covers an area of 7,125 km from the Gunalda Range to the south, past Howard on the Bruce Highway to the north, east to World Heritage listed Fraser Island and west to Brooweena.

Item 1: Details of any council infrastructure that was affected by flooding between the period 1 December 2010 to 31 January 2011:

4. To the best of my knowledge the Council infrastructure damaged during this period is included in the spreadsheet documents provided at Attachment **WS-2** (Hervey Bay) and Attachment **WS-3** (Maryborough, Tiaro and Woocoo).

Item 2: Details of any flood mitigation infrastructure (for example flood detention basins, storm water culverts, back flow devices) in the Council's area including a description of the maintenance programs for such infrastructure:

5. Fraser Coast Regional Council's asset register as at August, 2011 shows that Council manages the following stormwater assets:-

Type	Unit
• pipes and culverts	473,280 m
• Pits	14,350
• inlets/outlets	6,764
• open channels	15,173 m
• detention basins	32
• beach outfalls	225 m
• tideflex valves	8

I acknowledge that not all assets are included in this register and the data is being updated as resources permit.

6. Council has an operational budget of approximately \$4 million for the ongoing maintenance of above and below ground drainage infrastructure.
7. A summary of flood mitigation infrastructure and associated maintenance programs follows:

(a) Stormwater Detention Basins – Maryborough:

In the Maryborough area I am aware of two (2) reasonably significant dry detention basins as follows:

Station Square

- This detention basin is located on the Station Square Shopping Centre site and was constructed in early 2000's as part of the drainage strategy to mitigate and control the runoff from the new shopping centre development.
- Maintenance is undertaken on a needs basis.

Tinana Greens

- This detention basin is situated in the Tinana Greens subdivisional development and was primarily designed and constructed to ensure that the down stream stormwater flows from the development were not increased.
- Maintenance is undertaken on a needs basis.

(b) Stormwater Detention Basins – Hervey Bay:

In the Hervey Bay area there are approximately thirty (30) detention basins. The primary catchments where these detention basins are in the Lowlands Lagoons, Tooan Tooan Creek and Eli Creek catchments. General comments in relation to these detention basins are as follows:

- These detention basins were constructed as a strategy to mitigate the stormwater flooding caused by further development of the urbanised catchment areas.
- Maintenance is undertaken on a needs basis.

(c) Stormwater Detention Basins - former Tiaro and Woocoo Shires:

I am not aware of any stormwater detention basins in the former shires of Tiaro and Woocoo.

(d) Stormwater Culverts

According to the asset register there is approximately 500 kilometres of stormwater pipes and box culverts which control the stormwater runoff from the various catchment areas. These pipe / culvert systems have various capacity levels depending on the date of construction and the standards at the time. In more recent years,

where practicable, systems have been designed in accordance with Queensland Urban Drainage Manual (QUDM).

(e) Back Flow Devices

To the best of my knowledge infrastructure specifically for backflow prevention include the following:

- A shut off valve on the stormwater system to prevent surcharging of the stormwater system in the Maryborough CBD during time when the Mary River is in flood.
- A pump station which pumps water out of the Maryborough CBD stormwater system once the shut off valve is closed.
- 200 metres of portable flood barrier which is erected in the Maryborough CBD to create a temporary levee to protect the CBD.
- In addition to the above there are a number of flap valves / tide Flex valves and the like to prevent tidal and riverine inundation.
- These devices are serviced routinely and when warnings have been issued for specific events.

Item 3: Details of the stormwater design capacity and urban run-off capacity, sewerage design capacity and the most recent review of these capacities including details of any plans to upgrade.

8. Council's current drainage design capacity is consistent with QUDM, requiring properties to have flood immunity for a 100 year ARI. Developments are conditioned to meet this standard, as are remedial works undertaken by Council on existing systems (i.e. that may have been installed prior to the implementation of the current standard) which are designed, where possible, to meet the new standard.
9. Council undertakes hydraulic modelling to predict the probable flooding during a 100 ARI event and then determines what mitigation works are required to achieve the desired standard. Development of these hydraulic models is ongoing as land-uses, developments and infrastructure upgrades occur. The most notable studies recently undertaken are:-
 - (a) The Mary River Flood Study (currently being reviewed to reflect changes in the catchment and using refined modelling techniques); and
 - (b) The Hervey Bay Flood Risk Reduction Study
10. Outcomes of these studies are incorporated into Council's operations through:
 - (a) imposing minimum habitable floor levels on developments;
 - (b) identifying trunk infrastructure required to service existing users, as well as developments;

- (c) incorporation of mitigation works identified in studies into Council's capital budget and ten year capital plan; and
 - (d) priority infrastructure plans.
11. In addition to the information provided above, the following information is provided in response to Item 4 of the Requirement issued to Ms Lisa Desmond, Chief Executive Officer, a copy of which is provided at Attachment **WS-4** and referenced as Doc 1675960. I provide this information as the Director responsible for this area of Council operations:

How information about flood risk for the specific properties is made available and any processes for obtaining this information applicable to each of the following:

- (a) **Members of the public;**
 - (b) **Insurance companies;**
 - (c) **Prospective developers and their representatives**
12. Flooding information is available to stakeholders from a number of different sources, as follows:

- (a) Rate Searches

Prior to amalgamation the Maryborough City Council provided information on the Mary River flood heights and its relativity to affected properties. This information was provided through rate searches and flood searches. The flood height information provided was based on the 'Defined Flood Event' which was taken to be the 1893 flood levels. Generally, no information was provided with respect to flooding caused by surcharging stormwater systems and overland flow. Since amalgamation some information has been provided on stormwater flooding.

Generally, no information was provided in a rate search on flooding in the Hervey Bay area, prior to amalgamation, unless the parcel of land was located in a declared drainage problem area. To my knowledge the practice post amalgamation is to provide the default answer of 'not known' unless the land is in a declared drainage problem area.

I am not aware of the process for the former Tiaro and Woocoo Shires. Post amalgamation the practice has been to provide information on Mary River flooding, where information exists.

- (b) Building Development Information Request (Form 19)

Building/Development information request, these provide details of drainage easements, stormwater assets, identified overland flow paths flood immunity, any recorded issues pertaining to drainage and minimum habitable floor levels. A copy of Form 19 is attached at Attachment **WS-5**.

- (c) Flood Searches

Where formal information on flooding is available from Council records a flood search request provides details of the minimum habitable floor level and the source of the flooding, details of easements, infrastructure, identified overland flow paths and

previous drainage history. A copy of the flood search request form is attached at Attachment **WS-6**.

13. Further, the following information is provided in response to Item 9 of the Requirement issued to Mr Michael Ellery, Executive Manager Development Assessment a copy of which is provided at Attachment **WS-7** and referenced as Doc 1675982. I provide this information as the Director responsible for this area of Council operations:

A description of the measures used by Council to protect Council infrastructure (sewers, roads, stormwater etc) and to ensure such infrastructure functions during a defined flood event.

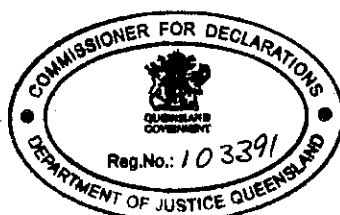
14. To the best of my knowledge the defined flood event for the design of various infrastructure drainage elements is currently based on the Queensland Urban Drainage Manual ("QUDM"). However, prior to amalgamation Maryborough City Council adopted Q50 as the defined flood event to determine flood immunity for new developments in areas not impacted by the Mary River flooding. Also, Maryborough Council adopted the 1893 flood event for the Mary River as the defined flood event to determine inundation areas from river flooding. I am not aware of the Mary River flood event adopted by the former Tiaro and Woocoo areas.
15. QUDM sets the defined flood event to be adopted for the design of infrastructure, road flooding immunity and stormwater capacity. Where practicable, Council adheres to this standard for all new constructions and reconstruction works.
16. Flood level immunity for various infrastructure is determined by Council's development manual based on a risk analysis process (ie critical infrastructure is required to have a higher flood immunity than general properties).
17. Where existing infrastructure does not meet current standards, Council has a set of procedures that are utilised to ensure that any damage to infrastructure is minimised. Warnings from the Bureau of Meteorology of predicted flood heights are the triggers for initiating these procedures.
18. Routine maintenance is carried out on infrastructure to ensure that it functions to capacity.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the *Oaths Act 1867*.

Signed

Wayne E Sweeney

Taken and declared before me, at Hervey Bay this 30 day of August 2011.



Justice of the Peace/ Commissioner for Declarations

Caroline Anne Lynch

ATTACHMENT WS-1

Our ref: Doc 1675952

10 August 2011

Mr Wayne Sweeney
Director of Infrastructure and Environment
Fraser Coast Regional Council
C/- King & Company Solicitors
Attn: [REDACTED]
GPO Box 758
BRISBANE QLD 4001

REQUIREMENT TO PROVIDE STATEMENT TO COMMISSION OF INQUIRY

I, Justice Catherine E Holmes, Commissioner of Inquiry, pursuant to section 5(1)(d) of the Commissions of Inquiry Act 1950 (Qld), require Mr Wayne Sweeney, Director of Infrastructure and Environment, to provide a written statement, under oath or affirmation, to the Queensland Floods Commission of Inquiry, in which the said Mr Sweeney:

- provides all information in his possession and identifies the source or sources of that information;
- makes commentary and provides opinions he is qualified to give as to the appropriateness of particular actions or decisions and the basis of that commentary or opinion;

in respect of the following topics:

1. Details of any council infrastructure that was affected by flooding between the period 1 December 2010 to 31 January 2011.
2. Details of any flood mitigation infrastructure (for example flood detention basins, storm water culverts, back flow devices) in the council's area including a description of the maintenance programs for such infrastructure.
3. Details of the stormwater design capacity and urban run-off capacity, sewerage design capacity and the most recent review of these capacities including details of any plans to upgrade.

Mr Sweeney may also address other topics relevant to the Terms of Reference of the Commission in the statement, if he wishes.

The statement is to be provided to the Queensland Floods Commission of Inquiry by 5 pm, Thursday, 1 September 2011.

The statement can be provided by post, email or by arranging delivery to the Commission by emailing info@floodcommission.qld.gov.au.

[REDACTED]
Commissioner
Justice C E Holmes

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ATTACHMENT WS-2

Road Name	Road Number	Chain Start	Chain Finish	Distance	GPS	Photo	Asset Description / Service Level	Description of Asset Damage	Cause of Damage	Proposed/Completed Restoration & specification of Engineering Standards / Building Codes (where changing)	Reconstruction Expense or Emergent Spreadsheet	Submission Single or Multi Site
												P1610001 Hervey Bay - Flood Roadworks
												P1610002 Hervey Bay - Flood Drainage Works

Old Coach Rd	R02952	0	1.0552	1.0552 X 4560222.08 Y 7197924.08	After	Single lane unsealed rural access road	Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains, softening of subgrade and removal of pavement by the action of high velocity water flows produced during prolonged an	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstatement of table drains by excavation Emergent and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstate subgrade with bridging layer of rock and pavement with crushed rock road	Complete	Multi	P1610185 HB - Old Coach Road (Howard) - Flood Damage - January, 2011	
		1055.2	1615.6	560.4									
Ocean Outlook	R02319	0.87	0.89	0.02 X 490145.47 Y 7191001.29	After	Sealed 2 Lane Urban Access Rd	Subgrade, pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event	Failure due to water ingress over prolonged period of exposure to high rainfall event	Installation of sub-soil drainage, subgrade replacement with bridging layer of rock. Replace damaged pavement and asphalt	Emergent	Complete	Multi	P1610187 HB - Ocean Outlook - Flood Damage - January 2011
		0.94	0.96	0.02									
Cove Blvd	R02294	1.53	1.55	0.02 X 490465.36 Y 7191040.17	After	Sealed Minor Urban Collector Rd 2 lane	Subgrade failure due to water ingress over prolonged period of exposure to high rainfall event	Subgrade, Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event	Installation of sub-soil drainage, subgrade replacement with bridging layer of rock. Replacement of damaged pavement and asphalt.	Emergent	Complete	Multi	P1610188 HB - Cove Blvd - Flood Damage - January 2011
		1.56	1.58	0.02									
Aldershot St	R00032	0	300	300 X 465784.55 Y 7184012.67	After	2 lane Sealed Urban Access Rd	High velocity scouring and removal of shoulder pavement due to floodwaters, creating dangerous vertical drop at road edge.	Intense and prolonged rainfall event leading to saturation and innundation of road and associated structures.	Trim excavation, replace and compact shoulder pavement material to restore road asset to a safe condition and a level of service similar to that which existed before the rainall event.	Emergent	Complete	Single	P1610189 HB- Aldershot Street - Flood Damage - January 2011
Vaughan St	R00061	1.5	5.7	4.2 X 466003.50 Y 7183622.24	After	Sealed Urban Access Rd 2 lane	Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event	Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event	Replacement of failed pavement with rock and base course gravel. Replace damaged surfacing	Emergent	Complete	Single	P1610190 HB - Vaughan Street - Flood Damage - January 2011
Hythe St	R00845	140	250	110 X 481594.42 Y 7204697.08	Before	Single lane unsealed rural access road	Siltation and erosion of table drains. Softening of subgrade by ingress after pavement removal by floodwater. Removal of pavement layer by scouring action of floodwater.	Innundation and high water velocity scouring caused by prolonged and concentrated water event.	Reinstate table drains by excavation and filing with rock, subgrade with bridging layer of rock and running surface with roadbase.	Emergent	Complete	Single	P1610191 HB - Eli Treatment Plant - Flood Damage - January 2011- Hythe Street
Beelbi Creek Rd	R00188	2200	6080	3.88 X464149.84 Y 7204446.22	Before	Single lane unsealed rural access road	Siltation of table drains caused by sediment deposited by floodwater, resulting in water overtopping the formation and removing or softening the underlying pavements and subgrade. Softening of subgrade by moisture ingress after pavement removal by floodwater.	Saturation, inundation and high water velocity scouring of pavement by floodwater	Reinstate Table drains by excavation and disposal of sediment deposited by floodwater.	Reconstruction	Complete	Multi	P1610193 HB - Beelbi Creek Road - Flood Damage - January 2011
		6.08	6.28	0.02					Remove saturated subgrade and reinstate subgrade carrying capacity with bridging layer of rock.				
		6.28	8	1.72			Removal of pavement layer by scouring action of floodwaters and softening of pavement through innundation.		Remove damaged and spoiled pavement. Replace pavement with approved granular material. Consolidate replaced material and trim to shape to provide a running surface equivalent to that which was existing prior to the event.				
Keens Rd	R01205	50	600	0.55 X 457632.22 Y7202052.34	Before	Single lane unsealed rural access road	Siltation and erosion of table drains. Softening of subgrade by moisture ingress after pavement removed by scouring action of floodwater.	Innundation and high water velocity scouring	Reinstate Table drains by excavation, subgrade carrying capacity with bridging layer of rock and running surface with roadbase	Emergent	Complete	Single	P1610194 HB - Keens Road Howard - Flood Damage - January 2011
Ansons Rd	R00746	50	260	0.21 X 476700.71 Y 7203969.71	After	Sealed 2 Lane Urban Arterial Rd	Subgrade and Pavement failure due to water ingress over prolonged period of exposure to high rainfall event, making the road unsafe to users, and causing damage to vehicles. Surfacing failure due to failure of underlaying structures caused by water ingres	Water ingress over period of exposure to prolonged and concentrated rainfall event	Excavation and disposal of waterlogged subgrade, installation of sub-soil drainage to conduct excess moisture away from the structure, subgrade replacement with bridging layer of rock to provide support to the overlying pavement. Replace damaged pavement	Emergent	Complete	Single	P1610195 HB - Ansons Road - Flood Damagee - January 2011
Moorabinda Dr	R02467	0	2.9277	2.9277 X478403.28 Y7194019.4	After	Sealed Rural Access Rd 2 lane	Subgrade failure due to water ingress over prolonged period of exposure to high rainfall event and innundation	Subgrade, Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event and innundation	Subgrade replacement with bridging layer of rock. Replace damaged pavement and surface	Reconstruction	Complete	Single	P1610196 HB - Moorabinda Drive - Flood Damage - January 2011
Esplanade Carparks						Various along Charlton Esplanade	Potholes and pavement failures due to exposure to prolonged rainfall event	Potholes and pavement failures due to exposure to prolonged rainfall event	Replace failed sections and patch potholes with deep lift asphalt	Emergent	Complete	Single	P1610199 HB - Esplanade Carparks - Flood Damage - January 2011
Valfern Ct	R00743	0.0030	0.0070	0.004 X 478534.46 Y7202875.34	After	Sealed 2 lane Rural Access	Surface and Pavement failure due to water ingress over prolonged period of exposure to high rainfall event	Subgrade, Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event	Replacement of damaged pavement and surface	Emergent	Complete	Single	P1610200 HB - Valfern Court - Flood Damage - January 2011
Smelter St	R00059	0	100	0.1 X 465902.44 Y7183931.52	After	2 Lane sealed Urban Access	Water on pavement due to silted table drains.	Pavement and Surfacing failure due to water ingress and flooding from silted table drains due to prolonged period of exposure to high rainfall event	Clean table drains and cart silt to spoil.	Emergent	Complete	Multi	P1610201 HB -Smelter Street Aldershot - Flood Damage - January 2011
		260	290	0.03			Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event		Replace damaged pavement and surface.				
Churchill Mines Rd	R00412	800	1490	0.69 X469634.22 Y7191317.90	Before	Single lane unsealed rural access road	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstate pavement carrying capacity and provide a serviceable running surface with crushed rock roadbase	Reconstruction		Multi	P1610202 HB - Churchill Mines Rd - Flood Damage - January 2011

Road Name	Road Number	Chain Start	Chain Finish	Distance	GPS	Photo	Asset Description / Service Level	Description of Asset Damage	Cause of Damage	Proposed/Completed Restoration & specification of Engineering Standards / Building Codes (where changing)	Reconstruction or Emergent	Expense Spreadsheet	Submission Single or Multi Site	
								Queensland Flooding and Tropical Cyclones Tasha & Anthony - November, 2010 to February, 2011					P1610001 Hervey Bay - Flood Roadworks	
								Fraser Coast Regional Council					P1610002 Hervey Bay - Flood Drainage Works	
								Removal of pavement layer by scouring action of floodwaters.		Reinstate pavement carrying capacity and provide a serviceable running surface with crushed rock roadbase				
								Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events. Softening of s		Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstate subgrade carrng capacity with bridging layer rock. Reinstate pavement				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate pavement carrying capacity and provide a serviceable running surface with crushed rock roadbase				
								Removal of pavement layer by scouring action of floodwaters and softening of subgrade by moisture ingress after pavement removal by floodwater		Reinstate running surface with roadbase and subgrade carrng capacity with bridging layer of rock				
								Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events. Removal of pav		Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstate running surface with roadbase. Reinstate subgrade carrying capacity with bridging layer of rock. Reinstate running surface with roadbase.				
								Softening of subgrade by moisture ingress after pavement removal by floodwater						
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
								Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events. Romoval of pav		Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstate running surface with roadbase.				
								Removal of pavement layer by scouring action of floodwaters.		Reinstate running surface with roadbase				
Nicholson Ct	R03332	10	35	0.25	X482513.63 Y7201451.69	After	2 lane sealed Urban Access	Subgrade, pavement and surfacing failure	Prolonged exposure to high rainfall event	Removal of and replacement of failed pavement and asphalt	Emergent	Complete	Single	P1610203 HB - Nicholson Court - Flood Damage - January 2011
Southerden Street	R03039	80	240	160	X 487374.25 Y 7202655.57	After	2 lane sealed Urban Access	Subgrade, pavement and surfacing failure	Prolonged exposure to high rainfall event	Removal of and replacement of failed pavement and asphalt	Emergent	Complete	Single	P1610204 HB - Southerden Street - Flood Damage - 2011
Bruce Street	R02983	60	150	90	X 488173.9 Y7202809.14	After	2 lane sealed Urban Access	Subgrade, pavement and surfacing failure causing difficulties to traffic, endangering travelling public and causing damage to vehicles.	Moisture ingress into pavement and subgrade caused by prolonged exposure to waters associated with a high rainfall event.	Control of traffic, excavation of damaged and unsuitable subgrade excavation of damaged and unsuitable pavement, removal of damaged surfacing. Replacement of damaged pavement and surfacing to restore road to original condition prior to the event.	Emergent	Complete	Single	P1610205 HB - Bruce Street - Flood Damage - January 2011
O'Reagan Creek Rd	R02910	2100	2200	0.1	X 468785.97 Y7206065.28	After	2 lane sealed Minor urban collector	Pavement ans surface failure due to water ingress over prolonged period of exposure to high rainfall event	Pavement and Surfacing failure due to water ingress and innundation over prolonged period of exposure to high rainfall event	Replacement of damaged pavement and surface	Emergent	Complete	Single	P1610206 HB - O'Regan Creek Rd - Flood Damage - January 2011
Dunn St	R00037	0	60	0.06	X 465693.16 Y 7183577.13	After	2 Lane sealed Urban Access	Innundation and userviceabilty caused by accretion of soil particles deposited out of floodwater.	Innundation, unseviceability , pavement and surfacing failure due to water ingress over prolonged period of exposure to high rainfall event	Clean and reprofile roadside table drains.	Emergent	Complete	Multi	P1610207 HB - Dunn Street - Flood Damage - January 2011
		115	120	0.005				Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event.		Replacement of damaged pavement and surface				
Lenthall St	R00044	0	200	0.2	X 465714.47 Y7183975.42	Before	2 Lane sealed Urban Access	Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event	Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event	Replacement of damaged pavement and surface	Emergent	Complete	Single	P1610208 HB - Lenthall Street - Flood Damage - January 2011
Kingfisher Pde	R02900			0	X 467193.9 Y7207786.32	Before/After	2 Lane Sealed Urban Access	Blocked drains and drainage structures	Innundation from floodwaters	Pump water and clear drains and drainage structures	Emergent	Complete	Single	P1610209 HB - Kingfisher Pde - Flood Damage - January 2011
Dolphin Waters Drive	R00455			0	X 460040.42 Y 7214016.81	Before/After	2 Lane sealed Minor Urban Collector road.	Innundation of surrounding streets and properties by floodwater	Concentrated rainfall event of lengthy duration	Construction of temporary drainage channel and diversion works.	Emergent		Single	P1610211 HB - Dolphon Waters - Flood Damage - January 2011
													Kingfisher Smelter St	P1610212 HB - Coles Court - Flood Damage -
														P1610213 HB - Fire Brigade Aldershot - Flood
Hornes Rd	R02493	400	450	0.05	X 474047.69 Y 7200574.16	Before	Unsealed single lane Rural Access road	Scouring across road caused by floodwater.	Subgrade, and Pavement failure due to water ingress over prolonged period of exposure to high rainfall event	Refill scour with base course material	Emergent		Multi	P1610214 HB - Hornes Road - Flood Damage - January 2011
		400	900	0.5				Scouring of roadside table drains caused by floodwater.		Refill scoured drains with rock.				

Road Name	Road Number	Chain Start	Chain Finish	Distance	GPS	Photo	Asset Description / Service Level	Description of Asset Damage	Cause of Damage	Proposed/Completed Restoration & specification of Engineering Standards or Building Codes (where changing)	Reconstruction or Emergent	Expense Spreadsheet	Submission Single or Multi Site
Noble Rd	R02478	350	400	0.05 X 478910.95 Y7188455.81	Before	Unsealed Single Lane Rural Access.	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Replace scoured pavement material with base course gravel. Replace scoured pavement material with base course gravel.	Emergent	Complete	Multi	P1610215 HB - Noble Road - Flood Damage - January 2011
Toogoom Cane Rd	R02513	100	4125	4.025 X469870.39 Y203368.43	Y Before	Unsealed Single Lane Rural Access.	Table drain erosion and pavement failure due to innundation and high velocity water flowsover prolonged period of exposure to high rainfall event	Innundation and water ingress into subgrades and pavements. High velocity water flow.	Clearing of culverts. Reconstruction ot table drains by rock filling. Reestablishment of table drains by excavation and removal of sediment and siltation. Excavate failed pavement , place rock bridging layer and base course gravel.	Emergent	Complete	Single	P1610217 HB - Toogoom Cane Rd - Flood Damage - January 2011
Vanderwolf Rd	R00408	1000	1300	0.3 X 481506.94 Y 7195665.65	Before	Unsealed Single Lane Rural Access road.	Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events.. Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material.	Emergent	Complete	Multi	P1610218 HB - Vanderwolf Rd - Flood Damage - January 2011
Old Walligan Rd	R03406	900	1600	700 X 476741.38 Y 7195870.82	After	Sinle lane unsealed rural access road	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring	Reinstate running surface with roadbase	Emergent	Complete	Single	P1610219 HB - Old Walligan Rd - Flood Damage - January 2011
Duckinwillia Rd	R00553	0	14.5	14.5 X 444966.53 Y 7192642.58	Y Before	Single lane unsealed rural access road	Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events.. Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstate pavement carrying capacity with crushed road base and subgrade with bri	Emergent	Complete	Multi	P1610220 HB - Duckinwillia Road - Flood Damage - January 2011
Joynsons Rd	R02947	400	2600	2.2 X 455770.81 Y 7196588.04	After	Unsealed Single Lane Rural Access road.	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstate pavement carrying capacity and provide a serviceable running surface with crushed rock roadbase	Emergent	Complete	Single	P1610221 HB - Joynsons Road - Flood Damage - January 2011
Castles Rd Sth	R00569	30	80	0.05 X 472336.5 Y 7203170.11	Y After	2 Lane sealed Rural Access road.	Scouring of roadside table drain endangering the integrity of the road and endangering road users.	High velocity water flows associated with prolonged and concentrated rainfall event.	Replace scoured material with geotextile and rock.	Emergent	Complete	Multi	P1610222 HB - Castles Road South - Flood Damage - January 2011
Toogoom Rd	R00203	0	2700	2.7 X 465259.51 Y7203859.49	Before	2 lane sealed rural arterial road	Siltation of table drains by prolonged intense rainfall event causing saturation of road by water. Subgrades saturated by prolonged rainfall and innundationas well as pavement failures. Surfacing failed through failure of supporting structures.	Innundation and water ingress into subgrades and pavements. High velocity water flow.	Excavate siltation from table drains, reinstate scouring with rock. Excavate failed areas and replace with rock and base course gravel. Replace surface on repaired areas.	Emergent	Complete	Single	P1610224 HB - Toogoom Road - Flood Damage - January 2011
Richards Road	R02000	1	300	0.3 X 455677.37 Y 7205192.06	After	Unsealed Single Lane Rural Access road.	Pavement failure due to innundation and water ingress over prolonged period of exposure to high rainfall event	Innundation and water ingress into subgrades and pavements. High velocity water flow.	Excavate failed ares. Placement of rock bridging layer. Replacement of damaged pavement.rock filling. Reestablishment of table drains by excavation and removal of sediment and siltation.	Emergent	Complete	Single	P1610225 HB - Roberts Road - Flood Damage P1610229 HB - Bronze Street - Flood Damage P1610230 HB - Richards Rd Pacific Haven - Flood Damage - January 2011
Wals Camp	R02002	0	150	0.15 X 455787.79 Y 7208446.98	Before	Single lane unsealed rural access	Pavement failure due to innundation and water ingress over prolonged period of exposure to high rainfall event. Damage to pavement caused by flood waters overtopping table drains	Innundation and water ingress into subgrades and pavements. High velocity water flow.	Excavate failed ares. Placement of rock bridging layer. Replacement of damaged pavement. Reconstruct table drains by rock filling.	Emergent	Complete	Single	P1610231 HB - Wals Camp - Flood Damage - January 2011
													Noble P1610232 Middle Road - Flood Damage -

Road Name	Road Number	Chain Start	Chain Finish	Distance	GPS	Photo	Asset Description / Service Level	Description of Asset Damage	Cause of Damage	Proposed/Completed Restoration & specification of Engineering Standards / Building Codes (where changing)	Reconstruction or Emergent	Expense Spreadsheet	Submission Single or Multi Site		
	Emergent Work Claim Complete							Queensland Flooding and Tropical Cyclones Tasha & Anthony - November, 2010 to February, 2011				P1610001	Hervey Bay - Flood Roadworks		
	Emergent Work Claim Sent							Fraser Coast Regional Council				P1610002	Hervey Bay - Flood Drainage Works		
Nikenbah - Dundowran Road	R03405	1921	3015				Two lane sealed rural collector road	Multiple failures of the pavements creating heaving, shoving and rutting with the road losing the ability to provide safe and economic movement of traffic.	The assett has been damaged by flooding event. The event has caused siltation of the table drains and resultant water ingress to pavements. The pavements have failed under traffic loading.	It is proposed to rehabilitate the failed pavement by means of the addition of a further 300 mm of type 2.1 pavement material and application of a 2 coat chip seal, along with works associated with the pavement rehabilitation.	Reconstruction		P1610244	HB - Nikenbah Dundowran Rd - Flood Damage - January 2011	
Craignish Rd	R00573 R00710	1985	4535	2.55	X 474454.61 Y 7201986.72	After	Sealed single lane Rural Collector road.	Subgrade failure due to water ingress over prolonged period of exposure to high rainfall event. Pavement and surface failure due to water ingress over prolonged period of exposure to high rainfall event, making the road unsafe to users, and causing vehicl	Subgrade, Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event	Excavation and disposal of waterlogged subgrade, subgrade replacement with bridging layer of rock to provide support to the overlying pavement. Replacement of damaged and waterlogged pavement and surface.	Reconstruction	Complete	Single	P1610245	HB - Craignish Rd - Flood Damage - January 2011
HB Aquatic Centre Carpark	R03418	362.9	427.8				Sealed Public Facilities Carpark	Pavement and subgrade failure causing heaving, shoving and rutting making the carpark unsafe.	Flooding caused by rainfall events	Replace damaged pavement and subgrade				P1610246	- Aquatic Centre
Hebblewhite Rd	R01845	0	1000	1	X 484356.36 Y 7197537.83	After	Single lane unsealed rural access road	Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events. Removal of pav	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstall pavement carrying capacity and provide a serviceable running surface wi	Emergent	Complete	Single	P1610270	HB - Hebblewhite Road - Flood Damage - January 2011
Condamine Rd	R01192	0	594	0.594	X 457692.91 Y 7201061.89	Before	Unsealed single lane Rural Access road.	Subgrade and pavement saturation from prolonged concentrated rainfall event leading to unserviceability of road asset.	Subgrade and Pavement failure due to water ingress over prolonged period of exposure to high rainfall event	Excavation of saturated subgrade and replacement with rock and pavement replaced with base course gravel.	Reconstruction	Complete	Multi	P1610271	HB - Condamine Road - Flood Damage - January 2011
Wilkin St	R02347	258	309.7	0.0517	X 491030.40 Y 7189099.92	Before	Sealed 2 lane urban access	Failure of subgrade and pavement due to moisture ingress from exposure to prolonged and concentrated rainfall events. Failure of surface due to failure of underlying supporting structures.	Saturation of subgrade and pavement layers by prolonged concentrated rainfall events	Removal by excavation and carting to spoil of saturated subgrade material. Replacement of unsuitable subgrade with drier pavement material. Replacement of unserviceable surfacing with an appropriate cost effective surfacing.	Emergent	Complete	Single	P1610273	HB - Wilkins Street, River Heads - Flood Damage January 2011
Buckley Rd	R00399	0	2000	2	X 483850.32 Y 7195957.09	Before	Single lane unsealed rural access road	Siltation caused by the erosion, transport and depositing of fine silt and debris by high velocity water flows. Erosion of table drains by the action of high velocity water flows produced during prolonged and concentrated rainfall events. Softening of s	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstatement of table drains by excavation and carting to spoil of deposited siltation and debris. Eroded sections of table drain corrected by placement of rocky material. Reinstall subgrade carrying capacity with bridging layer of rock and pavement with	Emergent	Complete	Single	P1610274	HB - Buckley Road - Flood Damage - January 2011
Happy Valley				0	X 520326.95 Y 7197392.53	After	Single lane beach access road.	Scouring of sand base beneath wooden pallets	High velocity water flows associated with prolonged and concentrated rainfall event.	Remove Pallets. Replace and consolidate sand. Replace pallets.	Emergent	Complete	Single	P1610275	HB - Happy Valley - Flood Damage - January 2011
Cathedral Beach				0	X 426049.28 Y 7210621.65	Before / After	Single lane beach access road.	Scouring of sand base beneath wooden pallets	High velocity water flows associated with prolonged and concentrated rainfall event.	Remove Pallets. Replace and consolidate sand. Replace pallets.	Emergent	Complete	Single	P1610276	HB - Cathedral Beach - Flood Damage - January 2011
Eurong Beach				0	X 512351.54 Y 7178538.99	Before / After	Single lane beach access road.	Scouring of sand base beneath wooden pallets	High velocity water flows associated with prolonged and concentrated rainfall event.	Remove Pallets. Replace and consolidate sand. Replace pallets.	Emergent	Complete	Single	P1610277	HB - Eurong Beach - Flood Damage - January 2011
				0									RoadTek	P1610280	HB - Booral Road - Flood Damage January 2011 - BILLED to Roadtak
Hervey Bay - Drains				0			Various	Innundation of streets and properties by floodwater from high rainfall event	Debris washed into drainage grates and pits by high velocity water flow	Drainage grates lifted, drains and pits cleared to enable free flow of water	Emergent	Complete	Multi	P1610283	HB - Drains - Hervey Bay Streets - Flood Damage - Jan 2011
Hervey Bay - Roads				0			Various	Innundation of streets by floodwater from high rainfall event causing extreme failure to road surface.	Pavement and Surfacing failure due to water ingress over prolonged period of exposure to high rainfall event and innundation	Repair of potholed pavement and bitumen surface	Emergent	Complete	Multi	P1610284	HB - Hervey Bay Road Damage - Flood January 2011
				0										P1610197 P1610198 P1610210 P1610216 P1610223 P1610228 P1610244 P1610272	HB - 17 Lakes Blvd - Flood Damage HB - Chantilly Street - Flood HB - Howea Court - Flood Damage - HB - Sea Eagles Dr - Flood HB - Castles Rd North - Flood HB - Brugh Street - Flood Damage - HB - Nikenbah Dundowran Rd - HB - Crawford Drive - Flood
Antill Rd	R00409	0	800	0.8	X 462469.02 Y 7198054.61	Before	Single lane unsealed rural access road	Siltation of table drains caused by sediment deposited by floodwater, resulting in water overtopping the formation and removing or softening the underlying pavements and subgrade. Softening of subgrade by moisture ingress after pavement removal by floodw	Saturation, inundation and high water velocity scouring of pavement by floodwater	Reinstall Table drains by excavation and disposal of sediment deposited by floodwater. Remove saturated subgrade and reinstate subgrade carrying capacity with bridging layer of rock. Remove damaged and spoiled pavement. Replace pavement with approved gran	Emergent	Complete	Single	P1610285	HB - Antill Road - Flood Damage - January 2011
Dundathu Drain											Reconstruction			P1610286	- Dundathu Drain
Burrum Town Drain				0	X 457687.41 Y 7198792.33	After		Scouring and collapse of table drain endangering safety of road users .	Concentrated and prolonged rainfall event	Replace scoured material with rock.	Emergent	Complete	Single	P1610287	HB - Dalkeith/Newcastle St Burrum Town Drain - Flood Damage
River Rd	R01223	1040	1080	0.4	X 455643.55 Y 7198335.01	Before	Unsealed Single Lane Rural Access road.	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring from prolonged concentrated rainfall events	Reinstall pavement carrying capacity and provide a serviceable running surface with crushed rock roadbase	Emergent	Complete	Single	P1610288	HB - River Road Howard - Drain - Flood Damage 2011
Mungomery Rd	R02496	2680	3000	0.32	X 471089.79 Y 7197148.01	After	Single lane unsealed rural access road	Removal of pavement layer by scouring action of floodwaters.	Innundation and high water velocity scouring	Reinstall running surface with roadbase	Emergent	Complete	Multi	P1610289	HB - Mungomery Road - Flood Damage - January 2011

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ATTACHMENT WS-3

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Maryborough	Mary River					Pontoon		Replacement of pontoon					
Tiaro	Mayne Street Tiaro	Ch: 0.0 from Burgess Road	0.000	0.18	0.18	Pavement Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	180	7	600	1260
Tiaro	Glenbar Road												
Tiaro	Glenbar Road	Ch. 0.697 from Glenbar/Kolbor Rd	0.697	0.055	0.752	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	55	5	200	275
Tiaro	Glenbar Road	Ch. 0.923from Glenbar/Kolbor Rd	0.923	0.038	0.961	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	38	5	200	190
Tiaro	Glenbar Road	Ch. 1.159from Glenbar/Kolbor Rd	1.159	0.082	1.241	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	82	5	200	410
Tiaro	Glenbar Road	Ch. 1.972from Glenbar/Kolbor Rd	1.972	0.074	2.046	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	74	5	200	370
Tiaro	Akuna Road												
Tiaro	Akuna Road	CH. 7.485	7.485	0.05	7.535	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	50	4.5	200	225
Tiaro	Akuna Road	CH. 7.663	7.663	0.216	7.879	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	216	4.5	200	972
Tiaro	Thinoomba Road												
Tiaro	Thinoomba Road	CH 1.343 from Glenbar/Thinoomba Junction	1.343	0.025	1.368	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	25	4	500	100
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	13.561	0.041	13.602	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	41	4	500	164
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	14.153	0.014	14.167	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	14	4	500	56
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	26.220	0.045	26.265	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	45	4	500	180
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	9.025	0.02	9.045	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	500	80
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	1.465	0.012	1.477	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	12	4	500	48
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	1.617	0.028	1.645	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	28	4	500	112
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	10.004	0.081	10.085	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	81	4	500	324
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	12.335	0.015	12.35	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4	500	60
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	15.468	0.028	15.496	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	28	4	500	112
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	15.533	0.07	15.603	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	70	4	500	280
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	2.573	0.043	2.616	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	43	4	500	172
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	2.929	0.075	3.004	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	75	4	500	300
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	25.100	0.136	25.236	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	136	4	500	544
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	3.043	0.037	3.08	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	37	4	500	148
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	5.827	0.055	5.882	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	55	4	500	220
Tiaro	Thinoomba Road	Glenbar/Thinoomba Junction	6.099	0.058	6.157	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	58	4	500	232
Glenwood	Abbot Road	Ch: 0.00	0.000	0.3	0.3	Road Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	300	6	200	1800
Glenwood	Abbot Road	Ch. 0.207 from Skyes Rd	0.207	0.33	0.537	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	330	6	200	1980
Theebine	Kanigan Road												
Theebine	Kanigan Road	Ch. 1.0 from Cherry Tree Rd	1.000	0.525	1.525	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	525	4	200	2100
Theebine	Kanigan Road	Ch. 1.63 from Cherry Tree Rd	1.630	0.01	1.64	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4	200	40
Bauple	Chapman Road	Ch: 0.00 -		0	0	Potholes		Digout and remove unsuitable material, replace with rock/gravel as required	Unsealed		4	200	0
Bauple	Chapman Road	Ch. 0.854 from Bruce Highway	0.854	0.01	0.864	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4	200	40
Bauple	Chapman Road	Ch. 0.762 from Bruce Highway	0.762	0.03	0.792	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	30	4	200	120

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Glenwood	Cherry Tree Road												
Glenwood	Cherry Tree Road	Ch. 0.204 from Kanyans Rd	0.204	0.05	0.254	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	50	8	200	400
Glenwood	Cherry Tree Road	Ch. 1.204 from Kanyans Rd	1.204	0.04	1.244	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	8	200	320
Glenwood	Cherry Tree Road	Ch. 1.595 from Kanyans Rd	1.595	0.249	1.844	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	249	8	200	1992
Glenwood	Cherry Tree Road	Ch: 250	0.250	0.03	0.28	Box Culvert Repairs		Reinstate rock and pavement and 2 coat seal	Sealed	30	7	200	210
Glenwood	Arbor 3	Ch: 0.360 from Beckmann's Road	0.360	0.085	0.445	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	85	7	200	595
Glenwood	Arbor 3	Ch: 0.859 from Beckmann's Road	0.859	0.095	0.954	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	95	7	200	665
Glenwood	Arbor 4 Road	Ch: 1.037 from Beckmans	1.037	0.015	1.052	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	3	200	45
Glenwood	Arbor 6 Road	Ch: .879 from Arbor 5 Road	0.879	0.02	0.899	Road Scours		Replace pavement with rock/gravel as required	Unsealed	20	5	200	100
Glenwood	Arbor 6 Road	Ch: .0.965 from Arbor 5 Road	0.965	0.041	1.006	Road Scours		Replace pavement with rock/gravel as required	Unsealed	41	4	200	164
Glenwood	Arbor 9 Road	Ch: .0.885 from Arbor 5 Road	0.885	0.033	0.918	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	33	5	200	165
Glenwood	Arbor 13 Road	Ch: 0.193 from Arbor 14 Road	0.193	0.095	0.288	Road Scours		Replace pavement with rock/gravel as required	Unsealed	95	1	600	95
Glenwood	Arbor 14 Road	Ch: 0.161 from Arbor 12 Road	0.161	0.064	0.225	Road Scours		Replace pavement with rock/gravel as required	Unsealed	64	4	200	256
Glenwood	Arbor 18 Road												
Glenwood	Arbor 18 Road	Ch. 0.142 from Arbor23 Rd	0.142	0.05	0.192	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	50	4	200	200
Glenwood	Arbor 18 Road	Ch. 0.242 from Arbor23 Rd	0.242	0.175	0.417	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	175	4	200	700
Glenwood	Arbor 22 Road												
Glenwood	Arbor 22 Road	Ch. 0.350 from Neerdie Rd	0.350	0.04	0.39	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	4	200	160
Glenwood	Arbor 23 Road	Ch: .233 from Neerdie Road		0.025	0.025	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	25	5	200	125
Glenwood	Arbor 24 Road												
Glenwood	Arbor 24 Road	Ch. 0.195 from Neerdie Rd	0.195	0.055	0.25	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	55	4	200	220
Glenwood	Arbor 26 Road												
Glenwood	Arbor 26 Road	Ch. 0.300 from Arbor27 Rd	0.300	0.025	0.325	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	25	4	200	100
Glenwood	Arbor 30 Road												
Glenwood	Arbor 30 Road	Ch. 0.979 from Neerdie Rd	0.979	0.095	1.074	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	95	4	200	380
Glenwood	Arbor 30 Road	Ch. 1.230 from Neerdie Rd	1.230	0.09	1.32	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	90	4	200	360
Glenwood	Arbor31	Ch. 0.246 from Arbor30 Rd	0.246	0.019	0.265	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	19	4	200	76
Glenwood	Arbor 37 Road	Ch: 0.0 from Arbor 9 Road	0.268	0.014	0.282	Road Scours		Replace pavement with rock/gravel as required	Unsealed	14	5	200	70
Glenwood	Arbor 37 Road	Ch: 0.268 from Arbor 9 Road	0.268	0.031	0.299	Road Scours		Replace pavement with rock/gravel as required	Unsealed	31	5	200	155
Glenwood	Cnr Arbor 16 & Arbor 10 Road	Ch: 0.00	0.000	0.03	0.03	Road Scours		Replace pavement with rock/gravel as required	Unsealed	30	4	200	120
Gundiah	Neerdie Road	Ch:0.00	0.000	0.3	0.3	Road Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	300	6	200	1800
Netherby	Hoffman's Road	Ch: 0.892	0.892	0.028	0.92	Road Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	28	4	200	112
Netherby	Hoffman's Road	Ch: 2.038	2.038	0.15	2.188	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	150	4	200	600
Glenwood	Beckmann's Road	Ch: 0.200 at Deveron Road	0.200	0.1	0.3	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	5	200	500
Glenwood	Beckmann's Road	Ch: 0.670	0.067	0.005	0.072	Floodway			Concrete	5	5		25
Glenwood	Beckmann's Road	Ch: 0.670	0.670	0.121	0.791	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	121	5	200	605

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Tiaro	Deveron Road	Ch: 5.316	5.316	0.065	5.381	Road Scours		Replace pavement with rock/gravel as required	Unsealed	65	4	200	260
Netherby	Behrendorff Road	Ch: 0.100 from Hoffman's Road	0.100	0.029	0.129	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	29	4	200	116
Netherby	Behrendorff Road	Ch: 0.140 from Hoffman's Road	0.140	0.014	0.154	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	14	4	200	56
Netherby	Behrendorff Road	Ch: 0.434 from Hoffman's Road	0.434	0.015	0.449	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4	200	60
Netherby	Behrendorff Road	Ch: 1.210 from Hoffman's Road	1.210	0.181	1.391	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	181	4	200	724
Munna Creek	Blowers Road - Kunst Bridge	Ch: 0.933	0.933	0.03	0.963	Scouring - Floodway		Replace pavement with rock/gravel as required	Concrete	30	10	200	300
Munna Creek	Blowers Road - Kunst Bridge	Ch: 3.876	3.876	0.065	3.941	Pavement Repair		Replace pavement with rock/gravel as required	Unsealed	65	4	200	260
Munna Creek	Blowers Road - Kunst Bridge	Ch: 3.979	3.979	0.2	4.179	Pavement Repair		Replace pavement with rock/gravel as required	Unsealed	200	4	200	800
Munna Creek	Blowers Road - Kunst Bridge	Ch: 4.531	4.531	0.08	4.611	Pavement Repair		Replace pavement with rock/gravel as required	Unsealed	80	4	200	320
Munna Creek	Blowers Road - Kunst Bridge					Floodway headwall protection and separation		Unsealed					
Munna Creek	Casey Road			0	0								
Munna Creek	Casey Road	Ch 0.544 from Stottenville Rd	0.544	0.012	0.556	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	12	3	200	36
Munna Creek	Casey Road	0.900 from Blowers Road	0.900	0.119	1.019	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	119	5	200	595
Munna Creek	Casey Road	1.778 from Blowers Road	1.778	0.02	1.798	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	200	80
Munna Creek	Casey Road	2.656 from Blowers Road	2.656	0.01	2.666	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4	200	40
Munna Creek	Casey Road	2.911 from Blowers Road	2.911	0.01	2.921	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4	200	40
Munna Creek	Casey Road	3.128 from Blowers Road	3.128	0.045	3.173	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	45	4	200	180
Munna Creek	Casey Road	3.642 from Blowers Road	3.642	0.165	3.807	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	165	4	200	660
Munna Creek	Casey Road	3.949 from Blowers Road	3.949	0.06	4.009	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	60	4	200	240
Munna Creek	Casey Road	4.324 from Blowers Road	4.324	0.04	4.364	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	4	200	160
Munna Creek	Casey Road	4.444 from Blowers Road	4.444	0.002	4.446	Headwall & Pipes		Replace pavement with rock/gravel as required	Unsealed	2	2	200	4
Bauple	Coombes Road												0
Bauple	Coombes Road	Ch 0.544 from Stottenville Rd	0.544	0.012	0.556	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	12	3	200	36
Bauple	Coombes Road	Ch 0.580 from Stottenville Rd	0.580	0.088	0.668	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	88	3	200	264
Bauple	Coombes Road	Culverts		0.008	0.008	Pipes Washed Out		Replace pavement with rock/gravel as required	Unsealed	8	3	200	24
Netherby	Deborah Road												0
Netherby	Deborah Road	Ch. 1.49 from Netherby Rd	1.490	0.02	1.51	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	200	80
Netherby	Deborah Road	Ch. 3.996 from Netherby Rd 3.996		0.012	4.008	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	12	6	200	72
Netherby	Deborah Road	Ch. 4.15 from Netherby Rd	4.150	0.075	4.225	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	75	6	200	450
Gundiah	Emery's Bridge Road												0
Gundiah	Emery's Bridge Road	Ch. 0.5	0.500	0.035	0.535	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	35	5	200	175
Gundiah	Emery's Bridge Road	Ch: 1.351	1.351	0.002	1.353	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	2	2	300	4
Gundiah	Emery's Bridge Road	Ch: 1.429	1.429	0.002	1.431	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	2	2	300	4
Gundiah	Emery's Bridge Road	Ch: 1.437	1.437	0.012	1.449	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	12	7	200	84
Gundiah	Emery's Bridge Road	Ch: 1.772	1.772	0.02	1.792	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	3	200	60
Gundiah	Emery's Bridge Road	Ch:3.080	3.080	0.002	3.082	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	2	2	200	4

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Gundiah	Emery's Bridge Road	Ch:3.100	3.100	0.031	3.131	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	31	7	200	217
Gundiah	Emery's Bridge Road	Ch: 4.800	4.800	0.003	4.803	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	3	7	200	21
Mungar	Hucknall Road			0.2	0.2	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	200	3	300	600
Gundiah	Jessons Road												0
Gundiah	Jessons Road	Ch. 1.072 from Emery's Bridge Rd	1.072	0.04	1.112	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	6	200	240
Gundiah	Oakey Creek Bridge			0.03	0.03	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	30	3	200	90
Paterson	Orphant Rd												0
Paterson	Orphant Rd	Ch 0.221 from Patersons Rd	0.221	0.11	0.331	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	110	4	200	440
Tiaro	Owanyilla Road - East			0.1	0.1	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Tiaro	Owanyilla Road - West			0.1	0.1	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Paterson	Paterson Road												0
Paterson	Paterson Road	Ch. 0.698 from Old Gympie Rd	0.698	0.04	0.738	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	4	200	160
Paterson	Paterson Road	Ch. 1.595 from Old Gympie Rd	1.595	0.02	1.615	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	200	80
Paterson	Paterson Road	Ch. 3.629 from Old Gympie Rd	3.629	0.08	3.709	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	80	4	200	320
Paterson	Paterson Road	Ch. 4.268 from Old Gympie Rd	4.268	0.1	4.368	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Gundiah	Pineview Road & Spring Creek Road												0
Gundiah	PineView Rd	Ch. 3.275 from Emery's Bridge Rd	3.275	0.01	3.285	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	6	200	60
Gundiah	PineView Rd	Ch. 3.41 from Emery's Bridge Rd	3.410	0.062	3.472	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	62	6	200	372
Gundiah	PineView Rd	Ch. 3.675 from Emery's Bridge Rd	3.675	0.03	3.705	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	30	6	200	180
Gundiah	Shady Camp Road												0
Gundiah	Shady Camp Road	Ch. 6.439 from Emery's Bridge Rd	6.439	0.027	6.466	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	27	5	200	135
Gootchie	Sheehan's Road												
Gootchie	Sheehan's Road	Ch. 1.017 from Bruce Highway	1.017	0.04	1.057	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	4	200	160
Gootchie	Sheehan's Road	Ch. 1.546 from Bruce Highway	1.546	0.015	1.561	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4	200	60
Owanyilla	Stutz Road			0.005	0.005	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	5	4	200	20
Tiaro	Tahiti Road												0
Tiaro	Tahiti Road	Ch 4.0	4.000	0.01	4.01	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	8	200	80
Tiaro	Tahiti Road	Ch 7.95	7.950	0.01	7.96	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	8	200	80
Gundiah	Tram Road	Ch: .340 from Main Street	0.340	0.1	0.44	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Bauple	Bakers Road	0.00 from Chapman Road West		0.2	0.2	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	200	4	200	800
Bauple	Bakers Road	Ch: .117	0.117	0.022	0.139	Road Scours		Replace pavement with rock/gravel as required	Unsealed	22	4	200	88
Bauple	Bakers Road	Ch: .818	0.818	0.027	0.845	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	27	4	200	108
Bauple	Bakers Road	Ch: 1.072	1.072	0.045	1.117	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	45	4	200	180
Bauple	Bakers Road	Ch: 1.618	1.618	0.075	1.693	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	75	4	200	300
Bauple	Bakers Road	Ch: 2.222	2.222	0.042	2.264	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	42	4	200	168
Glenwood	Brassington Road	Ch: .472 from Sunrise	0.472	0.025	0.497	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	25	10	200	250

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Tiaro	Inman Street												0
Tiaro	Inman Road	Ch 1.271 from Bruce Hwy	1.271	0.01	1.281	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	6	200	60
Owanyilla	Petersen Road			0.055	0.055	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	55	5	200	275
Bauple	Rosendale Creek	Ch: 0.844				Removal of Flood Debris - Trees		Remove debris	Sealed				0
Bauple	Stratford Road												0
Bauple	Stratford Rd	Ch 0.38 from Willets Road	0.380	0.02	0.4	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	200	80
Bauple	R Connors Road	Ch:215 from Bauple Drive		0.15	0.15	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	150	4	200	600
Bauple	R Connors Road	Ch: .389 from Bauple Drive		0.002	0.002	Headwall and Pipes		Replace pavement with rock/gravel as required	Unsealed	2	2	200	4
Bauple	R Connors Road	Ch:.526 from Bauple Drive		0.002	0.002	Headwall and Pipes		Replace pavement with rock/gravel as required	Unsealed	2	2	200	4
Bauple	Brooks Road												0
Bauple	Brooks Rd	Ch. 1.412 from Bruce Highway	1.412	0.015	1.427	Replace of Pipes		Replace missing pipes and material with rock and gravel	Unsealed	15	4.5	200	67.5
Bauple	Cunningham Road		0.000	0.05	0.05	Road Scours		Replace pavement with rock/gravel as required	Unsealed	50	4.5	200	225
Bauple	Cunningham Road	Ch: 0.80 from Bauple Drive	0.800	0.015	0.815	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4	200	60
Bauple	Cunningham Road	Ch: .727 from Bauple Drive	0.727	0.088	0.815	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	88	4	200	352
Bauple	Cunningham Road	Ch: 1.318 from Bauple Drive	1.318	0.045	1.363	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	45	4	200	180
Bauple	McKellar Street	Ch: 0.436 from Forestry Road	0.438	0.064	0.502	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	64	5	200	320
Bauple	Emma Road	Ch: 0.44 from petit Road	0.440	0.04	0.48	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	40	4	200	160
Glenwood	Petit Road	Ch: 0.159 from Martyn Road	0.159	0.015	0.174	Road Scours		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	15	3	200	45
Bauple	Longs Road	Ch: .20 from Bakers Road	0.200	0.043	0.243	Resurfacing		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	43	4	200	172
Oakhurst	Suthers Road												0
Oakhurst	Suthers Road	Ch. 1.334 From Old Gayndah Rd	1.334	0.026	1.36	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	26	4.5	200	117
Oakhurst	Suthers Road	Ch. 1.515 From Old Gayndah Rd	1.515	0.139	1.654	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	139	4.5	200	625.5
Oakhurst	Suthers Road	Ch. 1.746 From Old Gayndah Rd	1.746	0.018	1.764	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	18	4.5	200	81
Oakhurst	Suthers Road	Ch. 1.799 From Old Gayndah Rd	1.799	0.014	1.813	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	14	4.5	200	63
Oakhurst	Suthers Road	Ch. 2.092 From Old Gayndah Rd	2.092	0.044	2.136	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	44	4.5	200	198
Oakhurst	Suthers Road	Ch. 2.146 From Old Gayndah Rd	2.146	0.037	2.183	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	37	4.5	200	166.5
Oakhurst	Suthers Road	Ch. 2.194 From Old Gayndah Rd	2.194	0.014	2.208	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	14	4.5	200	63
Oakhurst	Suthers Road	Ch. 2.217 From Old Gayndah Rd	2.217	0.013	2.23	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	13	4.5	200	58.5
Oakhurst	Suthers Road	Ch. 2.362 From Old Gayndah Rd	2.362	0.066	2.428	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	66	4.5	200	297
Oakhurst	Suthers Road	Ch. 2.568 From Old Gayndah Rd	2.568	0.028	2.596	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	28	4.5	200	126
Oakhurst	Suthers Road	Ch. 2.856 From Old Gayndah Rd	2.856	0.02	2.876	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4.5	200	90
Oakhurst	Suthers Road	Ch. 2.964 From Old Gayndah Rd	2.964	0.038	3.002	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	38	4.5	200	171
Tiaro	St Mary's Road												0
Tiaro	St Marys Rd	Ch. 0.485 from Mungar Rd	0.485	0.01	0.495	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	10	3	200	30
Tiaro	St Marys Rd	Ch. 0.91 from Mungar Rd	0.910	0.01	0.92	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	10	3	200	30
Tiaro	St Marys Rd	Ch. 1.216 from Mungar Rd	1.216	0.01	1.226	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	10	3	200	30

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Tiaro	St Marys Rd	Ch. 1.605 from Mungar Rd	1.605	0.019	1.624	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	19	3	200	57
Tiaro	St Marys Rd	Ch. 1.686 from Mungar Rd	1.686	0.05	1.736	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	50	3	200	150
Tiaro	St Marys Rd	Ch. 1.94 from Mungar Rd	1.940	0.034	1.974	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	34	3	200	102
Tiaro	St Marys Rd	Ch. 3.075 from Mungar Rd	3.075	0.01	3.085	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	10	3	200	30
Tiaro	St Marys Rd	Ch. 3.118 from Mungar Rd	3.118	0.012	3.13	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	12	3	200	36
Tiaro	St Marys Rd	Ch. 4.25 from Mungar Rd	4.250	0.09	4.34	Gravel Resheeting		Digout and remove unsuitable material, replace missing pavement with appropriate material	Unsealed	90	3	200	270
Bauple	Valentines Road												0
Bauple	Valentines Road	Ch 0.65 from Bauple drive	0.650	0.05	0.7	Road Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	50	5	200	250
Bauple	Valentines Road	Ch 1.963 from Bauple drive	1.963	0.015	1.978	Road Failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	5	200	75
													0
Tiaro	Redbank Road												0
Tiaro	Redbank Rd	Ch. 0.769 from Netherby Rd	0.769	0.25	1.019	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	250	7	200	1750
Tiaro	Redbank Rd	Ch. 3.957 from Netherby Rd	3.957	0.06	4.017	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	60	6	200	360
Tiaro	Redbank Rd	Ch. 4.727 from Netherby Rd	4.727	0.1	4.827	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Tinana	Four Mile Road East			0.1	0.1	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	6	200	600
Tinana	Four Mile Road East			0.05	0.05	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	50	6	200	300
Tinana	Melrose Road			0.15	0.15	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	150	3	200	450
Bidwill	Diagonal Road			0.5	0.5	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	500	4	200	2000
Oakhurst	Boundary Road			0.2	0.2	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	200	5	200	1000
Antigua	Gilmers Road			0.04	0.04	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	5	200	200
Bidwill	Bidwill Road												
Bidwill	Bidwill Road	Ch: .205	0.205	0.02	0.225	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	20	6	200	120
Bidwill	Bidwill Road	Ch 1.0 from Cooloola Coast Rd	1.000	0.03	1.03	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	30	6	200	180
Bidwill	Jumpo Creek Bridge	CH: 6.500	6.500	0.085	6.585	Pipe Erosion and Asphalt failure		Replace pavement with rock/gravel as required	Sealed	85	6	200	510
Teddington	Teddington Road								Sealed				0
Teddington	Teddington Road	Whole Road	0.000	5	5	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	5000	7	200	35000
Teddington	Five Mile Road	Ch: 1.900	1.900	0.04	1.94	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	2	200	80
Bauple	Bauple Drive	Ch: 0.900	0.900	0.04	0.94	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	6	200	240
Yerra	Berthelsen Road	Ch:0.00 - 2.444	0.000	2.444	2.444	Road Scours		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	2444	3	200	7332
Brooweena	Kolbore Road	Ch: 0.00 - 5.895	0.000	5.895	5.895	Gravel Patching and Washouts		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	5895	4	200	23580
Brooweena	Kildare Road	Ch: 0.0 - 4.102	0.000	4.102	4.102	Gravel Patching and Washouts			Unsealed	4102	3	200	12306
Brooweena	Kildare Rd	Ch. 0.148 from Woolooga Rd	0.148	0.186	0.334	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	186	3	300	558
Brooweena	Kildare Rd	Ch. 0.823 from Woolooga Rd	0.823	0.156	0.979	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	156	3	300	468
Brooweena	Kildare Rd	Ch. 1.109 from Woolooga Rd	1.109	0.326	1.435	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	326	3	300	978
Brooweena	Idahlia Range Road												0
Brooweena	Idahlia Range Rd	Ch.1.266 from Neardie Rd	1.266	0.091	1.357	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	91	3	200	273

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Brooweena	Idahlia Range Rd	Ch.3.036 from Neardie Rd	3.036	0.029	3.065	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	29	3	200	87
Brooweena	Idahlia Range Rd	Ch.3.108 from Neardie Rd	3.108	0.033	3.141	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	33	3	200	99
Brooweena	Idahlia Range Rd	Ch.5.174 from Neardie Rd	5.174	0.02	5.194	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	3	200	60
Mungar	Harrison Road	Ch: 0.100	0.100	0.1	0.2	Road Scours		Replace pavement with rock/gravel as required	Unsealed	100	4	200	400
Oakhurst	Old Gayndah Road	Ch: 00	0.000	0.3	0.3	Shoulder Scouring		Replace pavement with rock/gravel as required	Unsealed	300	2	500	600
Yerra	Pilerwa Road		0.000	0.05	0.05	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	50	6	200	300
Brooweena	Malarga Downs	Ch: 0.00 -10.337	0.000	2	2	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	2000	4	300	8000
Glenwood	Neerdie Road		0.000	0.15	0.15	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	150	4	300	600
Brooweena	Whoop Whoop Road	Ch: 1.500	1.500	0.3	1.8	Gravel Patch and Scours		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	300	3	300	900
Brooweena	Heath Road	Ch: 1.0	1.000	0.2	1.2	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	200	3	500	600
Brooweena	Gigoomgan Road	Ch:		0.5	0.5	Gravel Patch		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	500	3	300	1500
Brooweena	Gigoomgan Road			0.3	0.3	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	300	4.5	300	1350
Netherby	Netherby Road												0
Netherby	Netherby Road	Ch: 1.203 from Bauple/Woolooga Road	1.203	0.01	1.213	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	6	200	60
Netherby	Netherby Road	Ch:1.233	1.233	0.01	1.243	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	6	200	60
Netherby	Netherby Road	Ch:1.250	1.250	0.01	1.26	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	3	200	30
Netherby	Netherby Road	Ch:1.310	1.310	0.08	1.39	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	80	1.5	300	120
Netherby	Netherby Road	Ch: 2.575	2.575	0.06	2.635	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	60	1.5	200	90
Netherby	Netherby Road	Ch: 2.675	2.675	0.02	2.695	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	20	2	200	40
Netherby	Netherby Road	Ch: 2.749	2.749	0.015	2.764	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	15	2	200	30
Netherby	Netherby Road	Ch: 2.809 - LHS	2.809	0.016	2.825	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	16	3	200	48
Netherby	Netherby Road	Ch:2.809 - RHS	2.809	0.01	2.819	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	1.5	200	15
Netherby	Netherby Road	Ch: 2.854	2.854	0.008	2.862	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	8	1.2	200	9.6
Netherby	Netherby Road	Ch: 2.928	2.928	0.05	2.978	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	50	2	200	100
Netherby	Netherby Road	Ch:10.097 from Oaky Creek	10.097	0.062	10.159	Road Scours		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	62	3	500	186
Netherby	Netherby Road	Ch:11.10	11.100	0.07	11.17	Road Scours		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	70	8	600	560
Netherby	Netherby Road	Ch:15.305	15.305	0.01	15.315	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	10	1.5	300	15
Gundiah	Birts Road												
Gundiah	Birts Rd	Ch.00 from Emery's Bridge Rd	0.000	1.03	1.03	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	1030	4	200	4120
Tinana	Pioneer Park Pathway			0	0	Undermined and displaced		Digout and replace Pathway with new material - placement of rock/gravel and concrete	Concrete				0
Mungar	Pohlman Rd near Mungar Rd			0	0	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed				0
Brooweena	Innooroolabah Rd			0	0								
Brooweena	Innooroolabah Rd	Ch. 2.446 from Biggenden Rd	2.446	0.08	2.526	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	80	4.5	200	360
Brooweena	Inooroolabah Rd			0	0	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed				0
Brooweena	Neerdie Road			0	0	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement					0
Musket Flat	Old Gayndah Road - Doongul Creek			0.02	0.02	Washout at both ends of concrete		Replace missing material with rock and gravel	Concrete	20	4		80

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Tiaro	Glenbar Road												
Tiaro	Glenbar Rd	Ch: 5.27	5.270	0.4	5.67	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	400	4.5	200	1800
Tiaro	Glenbar Rd	Ch: 5.70	5.700	0.4	6.1	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	400	4.5	200	1800
Brooweena	Glenbar & Kolbor Rd			0	0	Road Scours		Replace pavement with rock/gravel as required	Unsealed				0
Brooweena	Walkers Flat Rd (Cnr Glenbar Rd)			0	0	Road Scours		Replace pavement with rock/gravel as required	Unsealed				0
Brooweena	Bullocky Road												
Brooweena	Bullocky Rd	Ch 2.14	2.140	0.05	2.19	Road Scours		Replace pavement with rock/gravel as required	Unsealed	50	4	200	200
Brooweena	Bullocky Rd	Ch 2.7	2.700	0.15	2.85	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	150	4	200	600
Brooweena	Bullocky Rd	Ch 2.9	2.900	0.15	3.05	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	150	4	200	600
Brooweena	Bullocky Rd	Ch 3.1	3.100	0.03	3.13	Shoulder scouring		Replace pavement with rock/gravel as required	Unsealed	30	4	200	120
Brooweena	Bullocky Rd	Ch 4.1	4.100	0.03	4.13	Shoulder scouring		Replace pavement with rock/gravel as required	Unsealed	30	4	200	120
Brooweena	Bullocky Rd	Ch 4.4	4.400	0.2	4.6	Pavement failure & subsequent		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	200	4	200	800
Brooweena	Bullocky Rd	Ch. 2.344 from Gigoomgan/Bullocky Rd	2.344	0.056	2.4	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	56	4	200	224
Brooweena	Bullocky Rd	Ch. 3.636 from Gigoomgan/Bullocky Rd	3.636	0.092	3.728	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	92	4	200	368
Brooweena	Bullocky Rd	Ch. 3.826 from Gigoomgan/Bullocky Rd	3.826	0.044	3.87	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	44	4	200	176
Brooweena	Booubyjan Road												0
Brooweena	Booubyjan Rd	from Thomson Gap Ch 0.307-1.060	0.307	0	0.307	Table drain & pavement scouring		Replace missing material with rock and gravel	Sealed		4		0
Brooweena	Booubyjan Rd	from Thomson Gap Ch 1.27	1.270	0.02	1.29	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	20	4	200	80
Brooweena	Booubyjan Rd	from Thomson Gap Ch 1.362	1.362	0.01	1.372	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Sealed	10	4	200	40
Brooweena	Booubyjan Rd	from Thomson Gap Ch 3.06	3.060	0.03	3.09	Undermine floodway		Digout and replace Floodway with new material - placement of rock/gravel and concrete	Sealed	30	4	200	120
Brooweena	Booubyjan Rd			0.03	0.03	Culvert washout		Replace pavement with rock/gravel as required	Sealed	30	4	200	120
Brooweena	Booubyjan Rd	from Thomson Gap Ch 6.61	6.610	0.03	6.64	Floodway (Scour & blocked pipes)			Sealed	30	4	200	120
Brooweena	Booubyjan Rd	from Thomson Gap Ch 6.61	6.610	0.02	6.63	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4	200	80
Brooweena	Booubyjan Rd	from Thomson Gap Ch 7.35	7.350	0.02	7.37	Road Scours		Replace pavement with rock/gravel as required	Unsealed	20	4	200	80
Brooweena	Booubyjan Rd	from Thomson Gap Ch 7.5	7.500	0.1	7.6	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Brooweena	Booubyjan Rd	from Thomson Gap Ch 9.13	9.130	0.01	9.14	Culvert washout		Replace pavement with rock/gravel as required	Unsealed	10	4		40
Brooweena	Booubyjan Rd	from Thomson Gap Ch 10.557	10.557	0.1	10.657	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	100	4	200	400
Brooweena	Booubyjan Rd	from Thomson Gap Ch 10.630	10.630	0.05	10.68	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	50	4	200	200
Brooweena	Booubyjan Rd	from Thomson Gap Ch 11.516	11.516	0.02	11.536	Road Scours		Replace pavement with rock/gravel as required	Unsealed	20	4	200	80
Brooweena	Booubyjan Rd	from Thomson Gap Ch 19.983	19.983	0.02	20.003	Scour over pipe		Replace missing material with rock and gravel	Unsealed	20	4		80
Brooweena	Ellerslie Rd												0
Brooweena	Ellerslie Rd	Ch 2.9 from Glenbar Rd	2.900	0.03	2.93	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	30	4.5	200	135
Brooweena	Calgoa Road												0
Brooweena	Calgoa Rd	Ch 3.8 from Woolooga Rd	3.800	0.4	4.2	Full width pavement failure			Unsealed	400	4.5	300	1800
Brooweena	Calgoa Rd	Ch 4.2 from Woolooga Rd	4.200	0.4	4.6	Full width pavement failure			Unsealed	400	4.5	300	1800
Brooweena	Cooke Road												0

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Brooweena	Cooke Rd	Ch 0.86 from Calgoa	0.860	0	0.86	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed				0
Brooweena	Cooke Rd	Ch 1.5 from Calgoa	1.500	0	1.5	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed				0
Brooweena	Thunder Ck Rd	Ch 0.5 from Calgoa	0.500	0.05	0.55	Road Scours		Replace pavement with rock/gravel as required	Unsealed	50	2.5	400	125
Brooweena	Yarrabine Road												
Brooweena	Yarrabine Rd	Ch 1.9 from Woolooga Rd	1.900	0.3	2.2	Gravel Patch - Failures		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	300	4	300	1200
Brooweena	Yarrabine Rd	Ch 2.1 from Woolooga Rd	2.100	0.01	2.11	Pipe culvert scour (450mm dia)		Replace pavement with rock/gravel as required	Unsealed	10	4	300	40
Brooweena	Utopia Road												0
Brooweena	Utopia Rd	Ch 0.7 from Innooroolabah Rd	0.700	0.01	0.71	Longitudinal pavement scour			Unsealed	10	4.5	300	45
Brooweena	Utopia Rd	Ch 3.2 from Innooroolabah Rd	3.200	0.01	3.21	Longitudinal pavement scour			Unsealed	10	4.5	300	45
Brooweena	Utopia Rd	Ch 3.9 from Innooroolabah Rd	3.900	0.01	3.91	Road washout		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4.5	300	45
Brooweena	Utopia Rd	Ch 4.9 from Innooroolabah Rd	4.900	0.01	4.91	Road washout		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4.5	300	45
Brooweena	Utopia Rd	Ch 5.0 from Innooroolabah Rd	5.000	0.015	5.015	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4.5	300	67.5
Brooweena	Utopia Rd	Ch 5.2 from Innooroolabah Rd	5.200	0.015	5.215	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	15	4.5	300	67.5
Brooweena	Utopia Rd	Ch. 5.249 From Innooroolabah/Utopia Rd	5.249	0.047	5.296	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	47	4.5	300	211.5
Brooweena	Utopia Rd	Ch.0.0 From Innooroolabah/Utopia Rd	0.000	0.083	0.083	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	83	4.5	300	373.5
Brooweena	Utopia Rd	Ch.5.032 From Innooroolabah/Utopia Rd	5.032	0.047	5.079	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	47	4.5	300	211.5
Brooweena	Staib Road												
Brooweena	Staib Rd	Ch 0.3 from Biggeden Rd	0.300	0.02	0.32	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4.5	200	90
Brooweena	Staib Rd	Ch 1.9 from Biggeden Rd	1.900	0.05	0	Road Scours		Replace pavement with rock/gravel as required	Unsealed	50	4.5	200	225
Brooweena													
Yerra	Grohn Road												
Yerra	Grohn Rd	Ch 0.5 from Yerra Rd	0.500	0.05	0.55	Road Scours		Replace pavement with rock/gravel as required	Unsealed	50	3	200	150
Mungar	Dunford Road West												
Mungar	Dunford Rd West	Ch 1.7 from Yerra Rd	1.700	0.2	1.9	Road Scours		Replace pavement with rock/gravel as required	Unsealed	200	4	200	800
Mungar	Dunford Rd West	Ch 3.8 from Yerra Rd	3.800	0.1	3.9	Road Scours		Replace pavement with rock/gravel as required	Unsealed	100	4	200	400
Granville	Walkers Pt Rd	Ch 5.7 from Burns St	5.700	0.05	5.75	Road Scours		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	50	4	200	200
Granville													
Bidwill	Pallant Rd	Ch 1.0 from Bidwill Rd	1.000	0.02	1.02	Longitudinal pavement scour			Unsealed	20	4	200	80
Bidwill	Avin Road												
Bidwill	Avin Rd	Ch 1.9 from Bidwill Rd	1.900	0.02	1.92	Culvert washout		Replace pavement with rock/gravel as required	Unsealed	20	4	200	80
Bidwill	Avin Rd	Ch 1.5 from Bidwill Rd	1.500	0.04	1.54	Road Scours		Replace pavement with rock/gravel as required	Unsealed	40	4	200	160
Bidwill													
Bidwill	Weir Road												
Bidwill	Weir Rd	Ch 1.7 from Bidwill Rd	1.700	0.01	1.71	Pavement failure		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	6	200	60
Bidwill	Weir Rd	Ch 1.1 from Bidwill Rd	1.100	0.01	1.11	Culvert washout		Replace pavement with rock/gravel as required	Unsealed	10	6	200	60
Bidwill	Fredriksen Road	Ch 1.06 from Bidwill Rd	1.060	0.01	1.07	Floodway scour & he			Unsealed	10	6	200	60

Flood Damage For Maryborough, Woocoo & Tiaro Areas

Locality	Road Name	Chainage Description	Chainage Start	Distance (km)	Chainage Finish	Description of Asset Damage	Completion Date	Proposed Restoration Works	Sealed/Unsealed	Length (m)	Width	Depth	Total M2
Bidwill													
Bidwill	Kinbacher Lane	Ch 0.6 from Bidwill Rd	0.600	0.02	0.62	Longitudinal & transverse pavement scour			Unsealed	20	4	200	80
Bauple	Van Hensbroek Road												
Bauple	Vanhensbroek Rd	Ch 0.925 from Petit Rd	0.925	0.028	0.953	28m of Table drain			Unsealed	28	1	200	28
Bauple	Vanhensbroek Rd	Ch 1.843 from Petit Rd	1.843	0.02	1.863	20m of Edge Scour			Unsealed	20	1	200	20
Glenwood	Wards Rd	Ch. 0.090 from Arbor17 Rd	0.090	0.198	0.288	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	198	6	200	1188
Bauple	Stottenville Road	Ch 5.239 from Forestry Rd	5.239	0	5.239	Culvert Scour			Sealed		6	200	0
Bauple	Stottenville Road	Ch: 0.727 from Forestry Road	0.727			Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	6.5	200	260
Brooweena	Neardie Rd	Ch 4.905 from IIdahlia Range Rd/Neardie Rd	4.905	0.085	4.99	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	85	4.5	200	382.5
Brooweena	Mill Road	Ch 0.3840 from Stottenville Rd	0.384	0.005	0.389	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	5	5	200	25
Gundiah	Dakins Rd	Ch. 00	0.000	0.3	0.3	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	300	6	200	1800
Bauple	Daniel Rd	Ch 0.197 from Vanhensbroek Rd	0.197	0.02	0.217	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	20	7	200	140
Bauple	Daniel Rd	Floodway		0	0	Removal of Flood Debris		Remove debris					0
Bauple	Deephouse Rd	Ch 0.597 from Vanhensbroek Rd	0.597	0.028	0.625	28m of Table drain			Unsealed	28	1.5	200	42
Bauple	Deephouse Rd	Ch: 2.077	2.077	0.01	2.087	Shoulder scouring - LHS		Replace pavement with rock/gravel as required	Unsealed	10	1.5	500	15
Bauple	Deephouse Rd	Ch: 2.077	2.077	0.025	2.102	Shoulder scouring - RHS		Replace pavement with rock/gravel as required	Unsealed	25	1.5	500	37.5
Bauple	Faine Road												
Bauple	Faine Road	Ch 1.425 from Darwin Rd	1.411	0.04	1.451	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	40	5	200	200
Glenwood	Freshneys Rd	Ch. 2.196 from Cherry Tree Rd	2.196	0.15	2.346	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	150	3	200	450
Brooweena	Gigoomgan Road												
Brooweena	Gigoomgan Rd	Ch.4.27 from MBH/Biggenden Rd	4.270	0.02	4.29	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	20	4.5	200	90
Brooweena	Gigoomgan Rd	Ch.7.491 from MBH/Biggenden Rd	7.491	0.01	7.501	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric and place appropriate pavement	Unsealed	10	4.5	200	45
Brooweena	Nangrin Rd	At Railway Crossing		0.006	0.006	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	6	2	200	12
Mungar	Pohlman Rd	Ch .9 from Mungard Rd	0.900	0.006	0.906	Pavement Repair at Floodway		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	6	3	200	18
Mungar	Antigua Rd	Ch 0.3 from Railway Crossing	0.300	0.02	0.32	Pavement Repair		Digout and remove unsuitable material, replace with mattress rock, fabric, place 200mm pavement and 2 coat emulsion seal	Sealed	20	3	200	60
Mungar	Burtons Rd	Ch 1.2 from Antigua Rd	1.200	0.02	1.22	Resheet full width		Replace missing pavement with new material	Unsealed	20	5	200	100

ATTACHMENT WS-4

Our ref: Doc 1675960

10 August 2011

Ms Lisa Desmond
Chief Executive Officer
Fraser Coast Regional Council
C/- King & Company Solicitors
Attn: [REDACTED]

REQUIREMENT TO PROVIDE STATEMENT TO COMMISSION OF INQUIRY

I, Justice Catherine E Holmes, Commissioner of Inquiry, pursuant to section 5(1)(d) of the *Commissions of Inquiry Act 1950* (Qld), require Ms Lisa Desmond to provide a written statement, under oath or affirmation, to the Queensland Floods Commission of Inquiry, in which the said Ms Desmond:

- provides all information in her possession and identifies the source or sources of that information;
- makes commentary and provides opinions she is qualified to give as to the appropriateness of particular actions or decisions and the basis of that commentary or opinion;

in respect of the following:

1. whether all documents requested by the Requirement dated 1 March 2011 have been provided to the Commission;
2. the details of any draft flood studies obtained or made available to the Council since March 2011;
3. any changes to the Council's land planning processes, policies or other statutory instruments in response to flooding that occurred during the period 1 December 2010 to 31 January 2011, including drafts, considerations and adopted documents of Council;
4. how information about flood risk for specific properties is made available and any processes for obtaining this information applicable to each of the following:
 - a. members of the public;
 - b. insurance companies;
 - c. prospective developers and their representatives;
5. whether and to what extent Council's infrastructure (for example, sewers, roads, stormwater) was affected by flooding that occurred during the period 1 December 2010 to 31 January 2011, citing specific examples where possible;
6. for 5, details of the reconstruction of this infrastructure including costs and programs;
7. funding arrangements for repairs to damaged Council infrastructure;

8. any policies or other documents which require property owners to have an evacuation plan and/or route in the case of flooding.

Ms Desmond may also address other topics relevant to the Terms of Reference of the Commission in the statement, if she wishes.

The statement is to be provided to the Queensland Floods Commission of Inquiry by 5pm, 1 September 2011.

The statement can be provided by post, email or by arranging delivery to the Commission by emailing info@floodcommission.qld.gov.au.



Commissioner
Justice C E Holmes

ATTACHMENT WS-5

Request for building information

19

<p>Indicate type of information required</p>	<p><input type="checkbox"/> PART A – DEVELOPMENT INFORMATION</p> <p><input type="checkbox"/> PART B – APPROVAL INFORMATION</p> <p><input type="checkbox"/> PART C – INSPECTION INFORMATION</p>
<p>1. Applicant details Clearly identify who is making the application. The applicant need not be the owner of the land. If the applicant is a company, a contact person must be shown.</p>	<p>Name <i>(in full)</i> <input type="text"/></p> <p>Company name <i>(if applicable)</i> Contact <input type="text"/> person <input type="text"/></p> <p>Phone no. <i>business hours</i> <input type="text"/> Mobile no. <input type="text"/> Fax no. <input type="text"/></p> <p>Email address <input type="text"/></p> <p>Postal address <input type="text"/></p> <p>Postcode <input type="text"/></p>
<p>2. Description of land The description must identify all land the subject of the application. The lot & plan details (eg. SP/RP) are shown on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.</p>	<p>Street address <i>(include no., street, suburb / locality & postcode)</i> <input type="text"/></p> <p>Postcode <input type="text"/></p> <p>Lot & plan details <i>(attach list if necessary)</i> <input type="text"/></p> <p>Shop/tenancy no. <i>(if applicable)</i> <input type="text"/> Storey / level <i>(if applicable)</i> <input type="text"/> Total area of land <i>(m²/ha)</i> <input type="text"/></p> <p>Existing use of premises <input type="text"/></p> <p>In which local government area is the land situated? <input type="text"/></p>
<p>3. Description of proposed development Clearly identify the proposed development. This section only needs to be completed if requesting information for PART A Development Information</p>	<div style="border: 1px solid black; height: 100px;"></div>
<p>4. Building certifier reference number and development approval number This section needs to be completed if requesting information for PART B Development Information and/or PART C Inspection Information.</p>	<p>Building certifier reference number <input type="text"/></p> <p>Development approval number <input type="text"/></p>

OFFICE USE ONLY

Fee Payable \$		Date Received		Receiving Officer's signature		Recommended form Version 2, 02/08
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Development information Part A

Information requested

For items ticked the Council is to provide all development information in its possession that may affect the assessment of an application for building work approval on the subject site. Development information under Schedule 1 of the *Building Act 1975* means information about the following:

- the physical characteristics and location of infrastructure related to the application
- local government easements, encumbrances or estates or interests in land likely to be relevant to the application
- information about site characteristics information likely to affect the assessment of the application

Item No	Tick if required	Information requested	(Council use) Provided yes/no
A – Infrastructure/services information			
A1		Plan of any sewer main or sanitary drain within or adjacent to the property, including approved connection point and any limitations on capacity	
A2		Plan of any water main within or adjacent to the property, including approved connection point and any limitations on capacity	
A3		Plan of any storm water main or drain within or adjacent to the property, including approved connection point and any limitations on capacity	
A4		Plans of any overland flow path within the property	
A5		Details of any required land application area for on-site disposal of sewerage, including any reserve area	
A6		Details of approved swimming pool discharge point	
A7		Location of mine subsidence areas	
B – Information specific to property			
B1		Details of any local government easements affecting the land	
B2		Flood level information, including minimum floor levels applicable to the property	
B3		Details of amenity and aesthetic resolutions	
B4		Details of any land-slip area applicable to the property (including mine subsidence)	
B5		Details of the location and nature of any filling that has been placed on the property	
B6		Details of any erosion control requirements applicable to the property	
B7		Details of any acid-sulphate soils contained in the property	
B8		Details of any airport height limitations applicable to the property	
B9		Details of any known contaminated soil contained on the property	
B10		Details of any declared bushfire prone areas that affect the property	
B11		Details of any local laws that affect the property	
B12		Details of any conservation/protected areas that affect the property	
B13		Details of any vegetation management area that affects the property	
B14		Details of any nature conservation or wet-lands areas that affect the property	
C – Engineering information			
C1		Details of any design standards/location requirements for vehicle crossings applicable to the land	
C2		Details of any limitations applicable to on-site driveway gradients or locations, for the property	
C3		Details of any water supply catchments that affects the property	
C4		Details of any sewerage surcharge area that affects the property	
C5		Details of any drainage problems that affect the property	
C6		Details of levels of proposed road or footway works that affect the property	

Development information Part A

D – Existing building information			
D1		Details of existing buildings on the property if available	
D2		Copies of current Certificates of Classification for the property	
D3		Hydraulic services plans (existing commercial buildings)	
D4		Details of any heritage-listed buildings	
D5		Records relating to fire safety application and inspection	
E – Development and Planning approvals			
E1		Details of any current development approvals applicable to the property	
E2		Details of any self-assessable requirements that may be relevant to the proposed building work. For example, in relation to domestic construction, covered car parking spaces, or water storage tanks.	
E3		Details of any other approvals (other than building work) necessary for the proposed development to proceed	
F – Local Government registers of information			
F1		Relevant sections of register of exemptions under the <i>Building Act 1975</i> , Chapter 8, Swimming Pool Fencing	
F2		Relevant sections of register of resolutions under the <i>Building Act 1975</i> about land liable to flooding	
F3		Relevant sections of register of show cause and enforcement notice information	

Information requested

For items ticked, the Council is to provide all approval documentation in its possession relied upon for the application for building work approval on the subject site.

Item No	Tick if required	Information requested	(Council use) Provided yes / no
G1		The application and the approval documents for the application	
G2		The decision notice or negotiated decision notice for the application	
G3		A copy of the plans, drawings and specifications and other documents and information lodged by the applicant, stamped approved or otherwise endorsed by the assessment manager	
G4		A list of required fire safety installations and required special fire services applying to the building work	
G5		Certificates relied on to decide the application	
G6		Information relied on to decide the application in relation to local government easements, encumbrances or estates or interests in land likely to be relevant to the application	
G7		Information relied on to decide the application in relation to the physical characteristics and location of infrastructure related to the application	
		Design levels of proposed road or footway works	
		Design or location of stormwater connections	
		Design or location of vehicle crossings	
G8		Information relied on to decide the application in relation to site characteristic information likely to affect the assessment of the application	
		Details of any heritage-listed buildings	
		Discharge of swimming pool backwash water	
		Flood level information, including minimum floor levels	
		Limitations on driveway gradients	
		Limitations on the capacity of sewerage, stormwater and water supply services	
		Location of any erosion control districts	
		Location of contaminated land	
		Location of land-slip areas	
		Location of mine subsidence areas	
		Details of any declared bushfire prone areas that affect the property	
G9		If the application relates to building work that uses an alternative solution, a notice of reasons for any approval	

Inspection information Part C

Information requested

For items ticked, the Council is to provide all inspection documents in its possession relied upon for the approval and finalisation of building work on the subject site.

Item No	Tick if required	Information requested	(Council use) Provided yes / no
H1		Compliance certificate (Form 15)	
H2		Notice, given to the builder for the work by or for the building certifier about an inspection of the work	
H3		Certificate about an inspection under the Building Act 1975 (for a stage of building work – Form 16)	
H4		Final inspection certificate (for mandatory stages class 1a single detached and class 10 - Form 21)	
H5		Certificate of classification (including interim certificate of classification – Form 11)	
H6		Certificate relating to the inspection of the building work relied upon by the relevant building certifier (a certificate given by a referral agency eg. QFRS)	
H7		Information relied on to decide the application in relation to the physical characteristics and location of infrastructure related to the application (Form 16 QBSA licensee Aspect certificate)	
		Engineer's – eg footing, slab, frame	
		Surveyor's – eg set-out	
		Termite	
		Wet area	
		Glazing	
		Trusses	
		Smoke alarms	
		Energy efficiency	
		Other – specify	
		Other – specify	
		Other – specify	
		Other – specify	

ATTACHMENT WS-6



Fraser Coast
REGIONAL COUNCIL

Flood, Stormwater and Tidal Surge

Property Search Report

WARNING

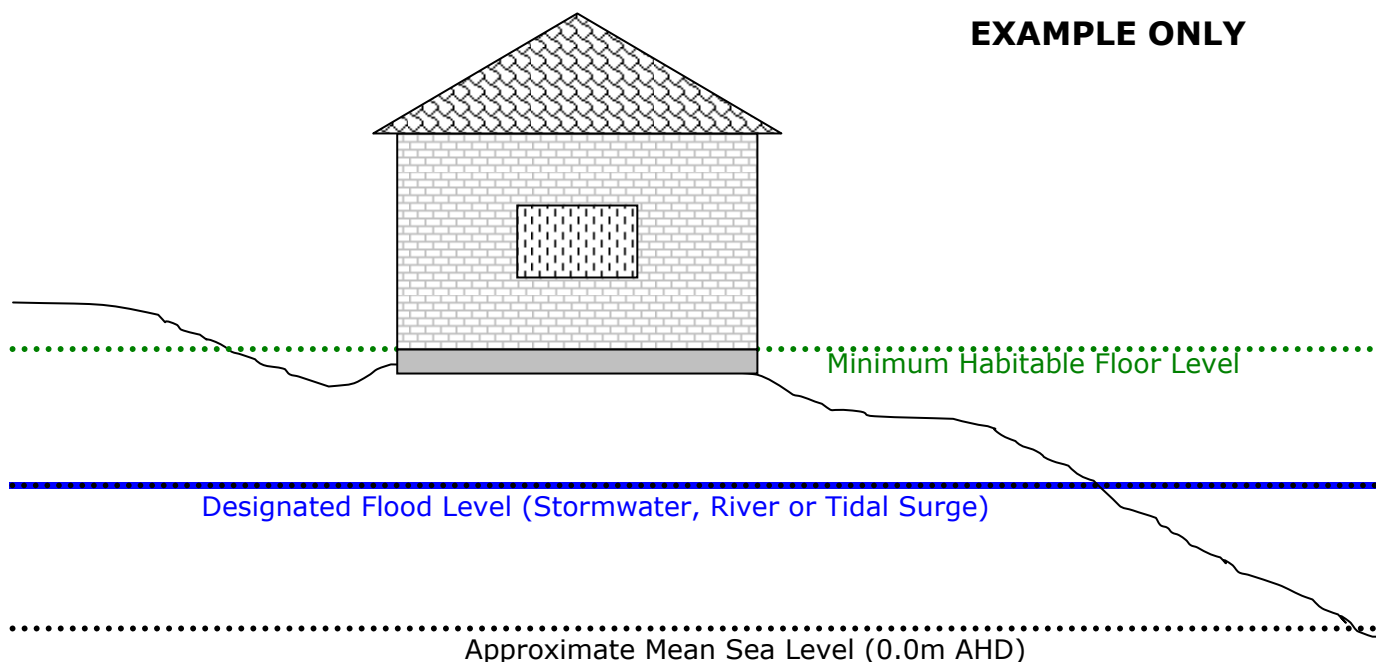
THIS FLOOD SEARCH DOES NOT IN ITSELF INDICATE
WHETHER THE SUBJECT PROPERTY HAS OR HAS NOT BEEN
AFFECTED BY FLOODS

DATE:	FCRC (Property) SEARCH No.
LOT & PLAN:	STREET ADDRESS:
ZONE TYPE:	BOUNDARY GROUND LEVEL: AHD

DESIGNATED FLOOD LEVEL:	AHD
FLOOD TYPE:	Q100 Stormwater / Q100 River / Q100 Tidal Surge
INFORMATION SOURCE:	Historical Record / Flood Study / Bureau of Meteorology
MINIMUM HABITABLE FLOOR LEVEL:	AHD

PLEASE REFER TO IMPORTANT INFORMATION OVERLEAF

EXAMPLE ONLY



IMPORTANT INFORMATION

DISCLAIMER

This information relates only to regional flooding and NOT to localised run-off or localised flooding, which may or may not affect the above property. There is no guarantee that the designated flood level will never be exceeded.

This information should not be solely relied upon for the purpose of deciding whether to potentially purchase, build or develop on the subject land.

It is recommended that an independent licensed surveyor and / or a suitably qualified consulting engineer is engaged to confirm the existing ground and floor levels and to determine suitable floor heights and location of constructions to avoid building within an overland flow path

EXPLANATION OF TERMS

Annual Exceedance Probability (AEP) is the assigned probability of occurrence of a particular flood event.

E.g. 1% AEP is the best estimate of a flood event which has 1 chance in 100 of occurring in any one year. This flood event is likely to occur on average once every 100 years. A 20% AEP is the best estimate of a flood event which has 1 chance in 5 of occurring in any one year. This flood event is likely to occur on average once every 5 years.

It should be noted that any type of flood event may occur more frequently.

Designated Flood Level is determined based on highest known flood level affecting the identified property or a 1% AEP predicted flood event. Otherwise referred to as Q100.

Flood Type is the source of inundation responsible for the highest flood level affecting the identified property (stormwater, river or tidal surge). Flood types other than those noted in this search may affect the identified property; however, the type of flood related to the highest flood level affecting the property has been used to derive the Designated Flood Level.

E.g. Property may be affected by a 1% AEP flood event up to 4.56m AHD and tidal surge inundation up to 4.15m AHD. The stormwater flood type would be identified as the Flood Type as it has the highest flood level affecting the property.

Information Source is the source of flood level information. This is generally derived from flood studies, hydraulic modelling analysis or recorded historical flood events. It should be noted that historical flood information has been collected on an ad hoc basis during or after a major flood event and may include levels taken from debris or water level marks, local knowledge or surveyed flood levels. Flood studies and hydraulic modelling analysis predict flood levels based on rainfall patterns and intensities, hydrology, geographic data, land use and climate change aspects. Historical Records will only be used where no Flood Study or Hydraulic Model information exists.

Minimum Habitable Floor Level is determined as Designated Flood Level plus additional (minimum) 300mm freeboard

(NOTE 1: Finished Floor Level will be minimum freeboard + 150mm foundation slab or timber depth.)

(NOTE 2: Storm-tide levels and / or adopted floor levels are inclusive of freeboard requirement.)

ATTACHMENT WS-7

Our ref: Doc 1675982

10 August 2011

Mr Michael Ellery
Executive Manager of Development
Fraser Coast Regional Council
C/- King & Company Solicitors
Attn: [REDACTED]
GPO Box 758
BRISBANE QLD 4001

REQUIREMENT TO PROVIDE A STATEMENT TO COMMISSION OF INQUIRY

I, Justice Catherine E Holmes, Commissioner of Inquiry, pursuant to section 5(1)(d) of the *Commissions of Inquiry Act 1950* (Qld), require Mr Michael Ellery, Executive Manager of Development, to provide a written statement, under oath or affirmation, to the Queensland Floods Commission of Inquiry, in which the said Mr Ellery:

- provides all information in his possession and identifies the source or sources of that information;
- makes commentary and provides opinions he is qualified to give as to the appropriateness of particular actions or decisions and the basis of that commentary or opinion;

in respect of the following topics:

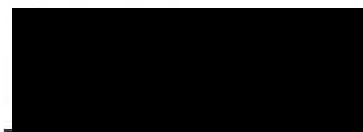
1. A summary of the assessment criteria contained in council's planning scheme(s) and how such criteria are used to assess applications for development in the natural hazard management area.
2. A description of how the natural hazard management area, as it relates to flood affected land, is reflected in the planning scheme.
3. Details of Council's defined flood event including a description of:
 - a) how the defined flood event was chosen;
 - b) the way in which the council's defined flood event was calculated or determined.
4. A description of any planning requirements to have evacuation routes and/or early warning systems for areas identified to be at high risk of flooding, including information about how the existence of such evacuation routes and/or early warning systems are communicated to occupiers of areas at high risk of flooding.
5. A description of any controls or standards used to assess the storage of chemicals or other Environmentally Relevant Applications for development below the Q100 flood line or the Council's defined flood event.

6. A description of any conditions imposed by Council on the approval of development applications to ensure that hazardous materials affected by flood water do not affect public safety and/or the environment.
7. A description of how levee banks are regulated in the council area using specific examples.
8. Details of council infrastructure (sewers, roads, stormwater etc) that was affected by flooding during the period 1 December 2010 to 31 January 2011.
9. A description of the measures used by Council to protect Council infrastructure (sewers, roads, stormwater etc) and to ensure such infrastructure functions during a defined flood event.

Mr Ellery may also address other topics relevant to the Terms of Reference of the Commission in the statement, if he wishes.

The statement is to be provided to the Queensland Floods Commission of Inquiry by 5 pm, Thursday 1 September 2011.

The statement can be provided by post, email or by arranging delivery to the Commission by emailing info@floodcommission.qld.gov.au.



Commissioner
Justice C E Holmes