

5 SUMMARY TABLE

Catchment	Focus Area	Summary of Conditions	Cause of Condition	Major Impacts / Threats / Values
Crystal Creek	Crystal Creek Upper Reaches	Moderate-Good	1 st and 2 nd order streams are generally in good condition. Threats to bank stability arising on alluvial sections mainly from a combination of <ul style="list-style-type: none"> - Agricultural practices, and • Removal of remnant buffer zones, 	Values: <ul style="list-style-type: none"> • Partially within the Mt Spec National Park • Significant areas of non-remnant vegetation Threats: <ul style="list-style-type: none"> • On-going incursion into designated buffer zones for agricultural purposes
	Crystal Creek Lower Reach	Moderate	Moderately modified remnant condition. With significant clearing next to 3 rd and 4 th order streams major threats come from <ul style="list-style-type: none"> - Agricultural practices, - Removal of remnant buffer zones, and • The presence of sodic and erodible soils. 	Values: <ul style="list-style-type: none"> • Possibly the southern extent of essential habitat for the Mahogany Glider Threats: <ul style="list-style-type: none"> • Incursion of agriculture into riparian zones. • Combination of riparian degradation and sodic/dispersive soils may compromise water quality.
Lorna Creek	Lorna Creek	Moderate-Good	<ul style="list-style-type: none"> • Clearing for agriculture in upper reaches 	Values: <ul style="list-style-type: none"> • Minimal clearing within the designated buffer zone. Threats: <ul style="list-style-type: none"> • Vehicle access for recreational purposes is compromising bank stability.
Creek 1 (name unknown)	Creek 1	Good	<ul style="list-style-type: none"> • Minimal clearing only around highway 	Values: <ul style="list-style-type: none"> • Near pristine condition Threats: <ul style="list-style-type: none"> • Clearing for coastal development.
Creek2 name unknown)	Creek 2	Moderate-	<ul style="list-style-type: none"> • Full clearing in middle reaches on erodible sodic soils. Upper and lower reaches have good condition with fully intact riparian zones. 	Values: <ul style="list-style-type: none"> • Near pristine condition in upper sections on granitic slopes. Threats: <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development.
Ollera Creek	Upper Reaches Ollera Creek	Good	<ul style="list-style-type: none"> • Little to no clearing has taken place within the upper granitic slopes of Ollera Creek 	Values: <ul style="list-style-type: none"> • Partially within the Mt Spec National Park. • Riparian zones relatively intact. Threats: <ul style="list-style-type: none"> • Clearing for agricultural purposes.



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	Mid Reaches Ollera Creek	Moderate	Variable condition with different channels having different riparian condition. Some channels have full clearing on erodible sodic soils	Values: <ul style="list-style-type: none"> Occasional areas in pristine condition with minimal disturbance within the designated riparian zones. Threats: <ul style="list-style-type: none"> Vegetation clearing on erodible, sodic, soils
	Lower Reaches Ollera Creek	Good	<ul style="list-style-type: none"> Lower reaches are in good condition with minimal disturbance around transport corridors 	Values: <ul style="list-style-type: none"> Relatively pristine condition with minimal disturbance within designated buffer zones. Threats: <ul style="list-style-type: none"> Clearing for agricultural purposes and residential development
Scrubby Creek	Scrubby Creek	Poor	<ul style="list-style-type: none"> . Little to no native vegetation exists within the designated buffer width along the majority of the creek 	Values: <ul style="list-style-type: none"> Minimal. Highly disturbed, weed infested area. Threats: <ul style="list-style-type: none"> Already significantly degraded.
Creek 3 (name unknown)	Creek 3	Moderate-Poor	<ul style="list-style-type: none"> 2 major channels have a very varied condition ranging from full coverage's within the designated buffer zone to no riparian coverage at the high bank 	Values: <ul style="list-style-type: none"> Minimal. Highly disturbed, weed infested area. Threats: <ul style="list-style-type: none"> Already significantly degraded
Hencamp Creek	Upper Reaches Hencamp Creek	Moderate-good	<ul style="list-style-type: none"> Little to no clearing has taken place within the upper granitic slopes of Hencamp Creek 	Values: <ul style="list-style-type: none"> Pristine areas in areas of rough terrain on relatively steep granitic slopes Riparian zones intact. Threats: <ul style="list-style-type: none"> Nutrient and sediment laden runoff from adjacent agricultural areas.
	Lower Reaches Hencamp Creek	Moderate-Poor	<ul style="list-style-type: none"> Variable condition with different channels having different riparian condition. Some channels have full clearing on erodible sodic soils 	Values: <ul style="list-style-type: none"> High integrity riparian systems along some creek banks. Threats: <ul style="list-style-type: none"> Nutrient and sediment laden runoff from erodible, sodic, soils in adjacent agricultural areas.
Rollingstone Creek	Upper Reaches Rollingstone Creek	Good	<ul style="list-style-type: none"> The upper granitic slopes are in pristine condition with little to know incursion into the designated buffer zone. The alluvial flats are in relatively good condition. However, there is some incursion into the designated buffer zone 	Values: <ul style="list-style-type: none"> Pristine condition along upper granitic slopes Reasonable riparian buffer systems on river banks of the alluvial flats. Threats:



Catchment	Focus Area	Summary of Conditions	Cause of Condition	Major Impacts / Threats / Values
				<ul style="list-style-type: none"> Clearing for agricultural purposes, small crop farming, and residential development
Rollingstone Creek	Lower Reaches Rollingstone Creek	Moderate	<ul style="list-style-type: none"> Clearing has occurred to the high bank. Adjacent land use within this area's are currently agricultural lands and degraded agricultural/pastoral lands 	<p>Values:</p> <ul style="list-style-type: none"> Relatively minor damage to riparian zones. <p>Threats:</p> <ul style="list-style-type: none"> Nutrient and sediment laden runoff from erodible, sodic, soils in adjacent agricultural areas
Creek 4 (name unknown)	Creek 4	Poor	<ul style="list-style-type: none"> Over half of the Creek has been cleared to the high bank with adjacent land uses being current agricultural or previous agricultural pastoral lands 	<p>Values:</p> <ul style="list-style-type: none"> Minimal <p>Threats:</p> <ul style="list-style-type: none"> Nutrient and sediment laden runoff from erodible, sodic, soils in adjacent agricultural areas Clearing for agricultural purposes and residential development
Surveyor Creek	Surveyor Creek	Moderate-poor	<ul style="list-style-type: none"> Variable condition with different channels having different riparian condition. Some channels have full clearing on erodible sodic soils 	<p>Values:</p> <ul style="list-style-type: none"> Northern channel:- minimal values. Southern channel:- riparian zone still relatively intact. <p>Threats:</p> <ul style="list-style-type: none"> Nutrient and sediment laden runoff from erodible, sodic, soils in adjacent agricultural areas
Creek 5 (name unknown)	Creek 5	Good	<ul style="list-style-type: none"> Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> Clearing for agricultural purposes and residential development
Baar Creek	Baar Creek	Good	<ul style="list-style-type: none"> Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> Clearing for agricultural purposes and residential development
Station Creek	Station Creek	Good	<ul style="list-style-type: none"> Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> Clearing for agricultural purposes and residential development



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Creek 6 (name unknown)	Creek 6	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development
Saltwater Creek	Saltwater Creek Upper Reaches	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Upper Reaches in near pristine condition. • Minimal incursions into riparian buffer zones <p>Threats:</p> <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development.
	Saltwater Creek Lower Reaches	Good-moderate	<ul style="list-style-type: none"> • Breach of the designated buffer zone include road and rail corridors and some minor clearing for unknown purposes and for aquaculture 	<p>Values:</p> <ul style="list-style-type: none"> • Riparian zones in near pristine condition. Incursions into buffer zones restricted to transport corridors. <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
Cassowary/Camp Oven Creek	Cassowary/Camp Oven Creek	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Riparian zones in near pristine condition. Incursions into buffer zones restricted to transport corridors. <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
Lillypond Creek		Moderate	<ul style="list-style-type: none"> • A large section of non-remnant vegetation exists between the rail and road corridor. This area is degraded agricultural/pastoral land which is starting to regrow. Contains a mixture of native and invasive species 	<p>Values:</p> <ul style="list-style-type: none"> • Where remaining, the riparian zone and adjacent vegetation are in near pristine condition <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
Leichardt Creek	Leichardt Creek Upper Reaches	Good	<ul style="list-style-type: none"> • Minimal clearing has occurred with only one breach into the designated buffer zone for property access on the alluvial plains 	<p>Values:</p> <ul style="list-style-type: none"> • Extensive riparian cover on both the granitic slopes and alluvial plains <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
	Leichardt Creek Mid Reaches	Moderate	<ul style="list-style-type: none"> • Disturbances in the upper part of this reach seem to be in relation to an old quarrying operation 	<p>Values:</p>



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				<ul style="list-style-type: none"> Only minor incursion into riparian zones. Threats: <ul style="list-style-type: none"> Future clearing for agricultural purposes and/or residential development.
	Leichardt Creek Lower Reaches	Moderate	<ul style="list-style-type: none"> Disturbances between the Bruce Highway and the railway corridor are extensive with the northern bank completely cleared between these 2 points 	Values: <ul style="list-style-type: none"> The majority of the lower sections of the river have extensive coverage with only minor disturbances within the designated buffer zones Threats: <ul style="list-style-type: none"> Exposure of cleared land surfaces between transport corridors. Potential degradation of water quality from sediment laden runoff. Future clearing for agricultural purposes and/or residential development.
Sleeperlog/Christmas	Sleeperlog/Christmas Upper Reaches	Moderate	<ul style="list-style-type: none"> Clearing in the southern section on the alluvial plains can be attributed to agricultural purposes and possibly an old WW2 airstrip. 	Values: <ul style="list-style-type: none"> Granitic slopes in pristine condition with no incursion into the designated buffer zone. Minimal clearing in the majority of the drainage channels. Threats: <ul style="list-style-type: none"> Where clearing has occurred the exposed soils are easily eroded and have the potential to degrade water quality through sediment laden run-off Future clearing for agricultural purposes and/or residential development.
	Sleeperlog/Christmas Lower Reaches	Moderate-Good	<ul style="list-style-type: none"> Breaches of the designated buffer zone include road and rail corridors and some minor clearing for unknown purposes and for aquaculture 	Values: <ul style="list-style-type: none"> Only minor breaches into the riparian zones associated with transport corridors. Threats: <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes and/or residential development. Nutrient laden runoff from aquaculture facilities.
Two Mile Creek	Two Mile Creek	Good	<ul style="list-style-type: none"> The only breach of the designated buffer zone is for road and rail corridors and some minor clearing for aquaculture purposes in the estuarine sand dune zone 	Values: <ul style="list-style-type: none"> Minimal incursion into the designated buffer zone. Threats: <ul style="list-style-type: none"> Aquaculture expansion. Future clearing for agricultural and/or industrial purposes



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				and/or residential development.
Creek 7 (name unknown)	Creek 7	Good	<ul style="list-style-type: none"> Creek 7 has pristine riparian vegetation with only one breach within the designated buffer with being the railway corridor 	Values: <ul style="list-style-type: none"> Pristine riparian vegetation with only minor incursions into the buffer zone associated with transport corridors. Threats: <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes and/or residential development.
Creek 8 (name unknown)	Creek 8	Good	<ul style="list-style-type: none"> The only breach of the designated buffer zone is for road and rail corridors 	Values: <ul style="list-style-type: none"> Pristine riparian vegetation with only minor incursions into the buffer zone associated with transport corridors. Threats: <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes and/or residential development.
Bluewater Creek	Bluewater Creek Upper Reaches	Good	<ul style="list-style-type: none"> There is minimal disturbance at the base of the scarp with some minor encroachments into the riparian vegetation 	Values: <ul style="list-style-type: none"> Granitic slopes in pristine condition with no incursion into the designated buffer zone. Minimal clearing in the majority of the drainage channels. Threats: <ul style="list-style-type: none"> Where clearing has occurred the exposed soils are easily eroded and have the potential to degrade water quality through sediment laden run-off
	Bluewater Creek Middler Reaches	Poor	<ul style="list-style-type: none"> This reach is highly modified with major breaches into the designated buffer zone. This poor condition is mainly due to residential properties on the northern side and pastoral uses on the southern bank 	Values: <ul style="list-style-type: none"> Minimal Threats: <ul style="list-style-type: none"> Continued clearance for residential development along the northern bank and pastoral usage along the southern bank. Compromised water quality from a combination of overland flow and dispersive and erosive soils.
Catchment	Focus Area	Summary of Conditions	Cause of Condition	Major Impacts / Threats / Values
	Bluewater Creek Lower Reaches	Moderate	<ul style="list-style-type: none"> Significant areas adjacent to 3rd and 4th order streams are cleared within the designated buffer zone. However, little of this clearing is directly adjacent to the channel 	Values: <ul style="list-style-type: none"> Riparian zones still relatively intact Threats: <ul style="list-style-type: none"> Urban expansion
Deep/ Althaus/ Healy	Deep/ Althaus/ Healy	Moderate	<ul style="list-style-type: none"> Several 1st and 2nd order streams have little to no riparian 	Values:



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Creeks	Creeks Upper Reaches		vegetation within the designated buffer zone The majority of clearing within this reach has been for cattle grazing	<ul style="list-style-type: none"> Threats: Continued agricultural incursion into riparian zones.
	Deep/ Althaus/ Healy Creeks Lower Reaches	Poor-moderate	<ul style="list-style-type: none"> Significant areas adjacent to 3rd and 4th order streams are cleared within the designated buffer zone. However, little of this clearing is directly adjacent to the channel. 	<ul style="list-style-type: none"> Values: Riparian zones still intact despite historic clearing for agricultural and pastoral purposes, and current residential development. Threats: Residential development and associated incursions into riparian zones.
Alligator Creek	Alligator Creek Upper Reaches	Moderate	<ul style="list-style-type: none"> All the areas within the Bowling Green Bay National Park are in pristine condition with only minimal incursion into the designated buffer zone. Riparian condition is compromised in the western anabranches with unconfirmed land use and cattle grazing taking place within this part of the catchment 	<ul style="list-style-type: none"> Values: Within the Bowling Green Bay National Park. Pristine riparian vegetation within the Bowling Green Bay National Park section of the river. .Threats: Incursion into riparian zones for cattle grazing purposes. Compromised water quality from bank destabilisation associated with cattle grazing and/or recreational activities.
	Alligator Creek Mid Reaches	Poor	<ul style="list-style-type: none"> For grazing and rural residential purposes has resulted in little to no natural riparian vegetation along large areas in both 1st/2nd order streams, and 3rd/4th order streams. 	<ul style="list-style-type: none"> Values: Minimal remaining following clearing for grazing and rural residential purposes. Threats: Large areas of cleared land with moderately sodic soils could compromise water quality. Expansion of rural residential development. Reliance on groundwater could compromise both riparian and hyporheic zones associated with the river system

CLIENT: CREEK TO CORAL
 PROJECT: RIPARIAN ASSESSMENT OF THE ROSS AND BLACK RIVER BASINS
 REPORT: RIPARIAN ASSESSMENT
 REF: C2CRIP



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	Alligator Creek Lower Reaches	Good	<ul style="list-style-type: none"> The majority of the reach is bordered with mangroves grading to sparsely vegetated estuarine salt flats. This is the natural condition of the area 	<p>Values:</p> <ul style="list-style-type: none"> Near pristine estuarine riparian vegetation <p>Threats:</p> <ul style="list-style-type: none"> Installation of marine water exclusion dams will impact on: <ol style="list-style-type: none"> Saline dependent ecosystems (e.g. vegetated estuarine salt flats), and Movement of catadromous and anadromous species through the creek system. Estuarine hyporheic zones Industrial and/or communal effluent.



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Station Creek	Station Creek	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development
Creek 6 (name unknown)	Creek 6	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Relatively pristine condition. <p>Threats:</p> <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development
Saltwater Creek	Saltwater Creek Upper Reaches	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Upper Reaches in near pristine condition. • Minimal incursions into riparian buffer zones <p>Threats:</p> <ul style="list-style-type: none"> • Clearing for agricultural purposes and residential development.
	Saltwater Creek Lower Reaches	Good-moderate	<ul style="list-style-type: none"> • Breach of the designated buffer zone include road and rail corridors and some minor clearing for unknown purposes and for aquaculture 	<p>Values:</p> <ul style="list-style-type: none"> • Riparian zones in near pristine condition. Incursions into buffer zones restricted to transport corridors. <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
Cassowary/Camp Oven Creek	Cassowary/Camp Oven Creek	Good	<ul style="list-style-type: none"> • Good condition with minimal incursion into the designated buffer zone 	<p>Values:</p> <ul style="list-style-type: none"> • Riparian zones in near pristine condition. Incursions into buffer zones restricted to transport corridors. <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.
Lillypond Creek		Moderate	<ul style="list-style-type: none"> • A large section of non-remnant vegetation exists between the rail and road corridor. This area is degraded agricultural/pastoral land which is starting to regrow. Contains a mixture of native and invasive species 	<p>Values:</p> <ul style="list-style-type: none"> • Where remaining, the riparian zone and adjacent vegetation are in near pristine condition <p>Threats:</p> <ul style="list-style-type: none"> • Future clearing for agricultural purposes and/or residential development.



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Leichardt Creek	Leichardt Creek Upper Reaches	Good	<ul style="list-style-type: none"> Minimal clearing has occurred with only one breach into the designated buffer zone for property access on the alluvial plains 	<p>Values:</p> <ul style="list-style-type: none"> Extensive riparian cover on both the granitic slopes and alluvial plains <p>Threats:</p> <ul style="list-style-type: none"> Future clearing for agricultural purposes and/or residential development.
	Leichardt Creek Mid Reaches	Moderate	<ul style="list-style-type: none"> Disturbances in the upper part of this reach seem to be in relation to an old quarrying operation 	<p>Values:</p> <ul style="list-style-type: none"> Only minor incursion into riparian zones. <p>Threats:</p> <ul style="list-style-type: none"> Future clearing for agricultural purposes and/or residential development.
	Leichardt Creek Lower Reaches	Moderate	<ul style="list-style-type: none"> Disturbances between the Bruce Highway and the railway corridor are extensive with the northern bank completely cleared between these 2 points 	<p>Values:</p> <ul style="list-style-type: none"> The majority of the lower sections of the river have extensive coverage with only minor disturbances within the designated buffer zones <p>Threats:</p> <ul style="list-style-type: none"> Exposure of cleared land surfaces between transport corridors. Potential degradation of water quality from sediment laden runoff. Future clearing for agricultural purposes and/or residential development.
Sleeperlog/Christmas	Sleeperlog/Christmas Upper Reaches	Moderate	<ul style="list-style-type: none"> Clearing in the southern section on the alluvial plains can be attributed to agricultural purposes and possibly an old WW2 airstrip. 	<p>Values:</p> <ul style="list-style-type: none"> Granitic slopes in pristine condition with no incursion into the designated buffer zone. Minimal clearing in the majority of the drainage channels. <p>Threats:</p> <ul style="list-style-type: none"> Where clearing has occurred the exposed soils are easily eroded and have the potential to degrade water quality through sediment laden run-off Future clearing for agricultural purposes and/or residential development.
	Sleeperlog/Christmas Lower Reaches	Moderate-Good	<ul style="list-style-type: none"> Breaches of the designated buffer zone include road and rail corridors and some minor clearing for unknown purposes and for aquaculture 	<p>Values:</p> <ul style="list-style-type: none"> Only minor breaches into the riparian zones associated with transport corridors. <p>Threats:</p> <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes



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				and/or residential development. <ul style="list-style-type: none"> Nutrient laden runoff from aquaculture facilities.
Two Mile Creek	Two Mile Creek	Good	<ul style="list-style-type: none"> The only breach of the designated buffer zone is for road and rail corridors and some minor clearing for aquaculture purposes in the estuarine sand dune zone 	Values: <ul style="list-style-type: none"> Minimal incursion into the designated buffer zone. Threats: <ul style="list-style-type: none"> Aquaculture expansion. Future clearing for agricultural and/or industrial purposes and/or residential development.
Creek 7 (name unknown)	Creek 7	Good	<ul style="list-style-type: none"> Creek 7 has pristine riparian vegetation with only one breach within the designated buffer with being the railway corridor 	Values: <ul style="list-style-type: none"> Pristine riparian vegetation with only minor incursions into the buffer zone associated with transport corridors. Threats: <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes and/or residential development.
Creek 8 (name unknown)	Creek 8	Good	<ul style="list-style-type: none"> The only breach of the designated buffer zone is for road and rail corridors 	Values: <ul style="list-style-type: none"> Pristine riparian vegetation with only minor incursions into the buffer zone associated with transport corridors. Threats: <ul style="list-style-type: none"> Future clearing for agricultural and/or industrial purposes and/or residential development.
Bluewater Creek	Bluewater Creek Upper Reaches	Good	<ul style="list-style-type: none"> There is minimal disturbance at the base of the scarp with some minor encroachments into the riparian vegetation 	Values: <ul style="list-style-type: none"> Granitic slopes in pristine condition with no incursion into the designated buffer zone. Minimal clearing in the majority of the drainage channels. Threats: <ul style="list-style-type: none"> Where clearing has occurred the exposed soils are easily eroded and have the potential to degrade water quality through sediment laden run-off
	Bluewater Creek Middler Reaches	Poor	<ul style="list-style-type: none"> This reach is highly modified with major breaches into the designated buffer zone. This poor condition is mainly due to residential properties on the northern side and pastoral uses on the southern bank 	Values: <ul style="list-style-type: none"> Minimal Threats: <ul style="list-style-type: none"> Continued clearance for residential development along the northern bank and pastoral usage along the southern bank. Compromised water quality from a combination of overland flow and dispersive and erosive soils.



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	Bluewater Creek Lower Reaches	Moderate	<ul style="list-style-type: none"> Significant areas adjacent to 3rd and 4th order streams are cleared within the designated buffer zone. However, little of this clearing is directly adjacent to the channel 	<p>Values:</p> <ul style="list-style-type: none"> Riparian zones still relatively intact <p>Threats:</p> <ul style="list-style-type: none"> Urban expansion
Deep/ Althaus/ Healy Creeks	Deep/ Althaus/ Healy Creeks Upper Reaches	Moderate	<ul style="list-style-type: none"> Several 1st and 2nd order streams have little to no riparian vegetation within the designated buffer zone. The majority of clearing within this reach has been for cattle grazing 	<p>Values:</p> <ul style="list-style-type: none"> <p>Threats:</p> <ul style="list-style-type: none"> Continued agricultural incursion into riparian zones.
	Deep/ Althaus/ Healy Creeks Lower Reaches	Poor-moderate	<ul style="list-style-type: none"> Significant areas adjacent to 3rd and 4th order streams are cleared within the designated buffer zone. However, little of this clearing is directly adjacent to the channel. 	<p>Values:</p> <ul style="list-style-type: none"> Riparian zones still intact despite historic clearing for agricultural and pastoral purposes, and current residential development. <p>Threats:</p> <ul style="list-style-type: none"> Residential development and associated incursions into riparian zones.
Alligator Creek	Alligator Creek Upper Reaches	Moderate	<ul style="list-style-type: none"> All the areas within the Bowling Green Bay National Park are in pristine condition with only minimal incursion into the designated buffer zone. Riparian condition is compromised in the western anabranches with unconfirmed land use and cattle grazing taking place within this part of the catchment 	<p>Values:</p> <ul style="list-style-type: none"> Within the Bowling Green Bay National Park. Pristine riparian vegetation within the Bowling Green Bay National Park section of the river. <p>.Threats:</p> <ul style="list-style-type: none"> Incursion into riparian zones for cattle grazing purposes. Compromised water quality from bank destabilisation associated with cattle grazing and/or recreational activities.
	Alligator Creek Mid Reaches	Poor	<ul style="list-style-type: none"> For grazing and rural residential purposes has resulted in little to no natural riparian vegetation along large areas in both 1st/2nd order streams, and 3rd/4th order streams. 	<p>Values:</p> <ul style="list-style-type: none"> Minimal remaining following clearing for grazing and rural residential purposes. <p>Threats:</p> <ul style="list-style-type: none"> Large areas of cleared land with moderately sodic soils could compromise water quality. Expansion of rural residential development. Reliance on groundwater could compromise both riparian and hyporheic zones associated with the river system

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 REPORT: RIPARIAN ASSESSMENT
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Catchment	Focus Area	Summary of Conditions	Cause of Condition	Major Impacts / Threats / Values
	Alligator Creek Lower Reaches	Good	<ul style="list-style-type: none"> The majority of the reach is bordered with mangroves grading to sparsely vegetated estuarine salt flats. This is the natural condition of the area 	<p>Values:</p> <ul style="list-style-type: none"> Near pristine estuarine riparian vegetation <p>Threats:</p> <ul style="list-style-type: none"> Installation of marine water exclusion dams will impact on: <ul style="list-style-type: none"> (d) Saline dependent ecosystems (e.g. vegetated estuarine salt flats), and (e) Movement of catadromous and anadromous species through the creek system. (f) Estuarine hyporheic zones Industrial and/or communal effluent.