

**Berrigan SC**

**Sewer Infrastructure Risk Register**

RISK IDENTIFICATION							RISK ANALYSIS				
Risk No.	Asset at Risk	What can happen?	When can it occur?	Possible cause	Existing controls	Is risk credible?	Likelihood	Consequences	Risk rating	Action required	Is risk acceptable?
1	Community Wastewater Management System treatment plant	Discharge to environment from power outage	Anytime now	Loss of supply from energy authority, storm damage, mechanical failure	High level alarms, response callout system, 6 hr storage capacity on site	Likely			#N/A	#N/A	
2	Community Wastewater Management System treatment plant	Discharge to environment from inadequate capacity	Within 2-3 years	Growth projected in next 3 years will exceed capacity	None	Likely			#N/A	#N/A	
3	Community Wastewater Management System treatment plant	Discharge to environment from control system failure	Anytime now	Electronic system fault, sensor fault	PC back-up system in place	Unlikely			#N/A	#N/A	
4	Effluent pump station	Overflow	Anytime now	Alarm failure	Nil	Possible			#N/A	#N/A	
5	CWMS Pump station	Overflow	Anytime now	Mechanical failure	Maintenance contract, monitoring, flushing	Unlikely			#N/A	#N/A	
6	CWMS Pump station	Overflow from pump station failure	Anytime now	Failure of power supply, electrical system, pump or alarm sensor	Regular inspections & maintenance	Likely			#N/A	#N/A	
7	CWMS Treatment Plant	Effluent discharge to the environment	Anytime now	Power failure from external cause - storm, vehicle collision	Monitoring system, on-site storage	Likely			#N/A	#N/A	

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8	CWMS Treatment Plant	Effluent discharge to the environment	Within 5 years	Pump failure, wear& tear, lack of maintenance	Maintenance regime, Planned replacement	Likely			#N/A	#N/A	
9	Oodnadatta CWMS	Pump failure	Anytime now	Mechanical failure	Regular contract service	Possible			#N/A	#N/A	
10	Oodnadatta CWMS	Blockage	Anytime now	Lack of flushing	None	Possible			#N/A	#N/A	
11	Oodnadatta CWMS	Collapse of septic pits	Within 2-3 years	Concrete corrosion	Monitoring	Almost certain			#N/A	#N/A	
12	CWMS	Infrastructure damaged by excavation	Anytime now	Excavations on work sites	Dial before you Dig	Possible			#N/A	#N/A	
13	Hamlyn Bridge CWMS	System total blockage	Anytime in the future	Tree roots, infiltration of foreign objects, silt.	Reactive flushing, reactive maintenance	Possible			#N/A	#N/A	
14	Hamlyn Bridge CWMS	Damage from earthquake	Anytime in the future	Earthquake	Reactive maintenance	Rare			#N/A	#N/A	
15	Renmark CWMS System	Pump failure	Anytime now	Power failure > 2 hrs duration	Auto restart, limited pump well storage	Likely			#N/A	#N/A	
16	Renmark CWMS System	Pump failure	Anytime now	Seized motor	Reactive maintenance program	Possible			#N/A	#N/A	
17	Renmark CWMS System	Pump failure	Anytime now	Failure of electronic controls	Reactive maintenance program	Possible			#N/A	#N/A	
18	Lameroo CWMS	Pump failure	Anytime now	External power failure	Standby pumps	Possible			#N/A	#N/A	

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19	CWMS Gravity lines	Broken lines	Anytime now	Tree roots, Damage by excavation	Regular flushing/jet vacuum of lines. Dial before you dig location service	Possible			#N/A	#N/A	
20	CWMS Gravity lines	Deterioration of existing pipes	Anytime now	Ageing pipes	Capital replacement program	Possible			#N/A	#N/A	
21	CWMS Pump Station	Discharge to the environment	Within 2-3 years	System overload from infiltration	Smoke testing	Possible			#N/A	#N/A	
22	CWMS Pump Station	Electrical fault	Anytime now	Ageing equipment	Back-up systems, contingency plans	Unlikely			#N/A	#N/A	
23	CWMS Pump Station	Power failure	Anytime now	Lightning, natural disaster	Standby generator, call out staff response	Unlikely			#N/A	#N/A	
24									#N/A	#N/A	
25									#N/A	#N/A	
26									#N/A	#N/A	
27									#N/A	#N/A	
28									#N/A	#N/A	
29									#N/A	#N/A	
30									#N/A	#N/A	
31									#N/A	#N/A	
32									#N/A	#N/A	
33									#N/A	#N/A	
34									#N/A	#N/A	
35									#N/A	#N/A	

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36									#N/A	#N/A	
37									#N/A	#N/A	
38									#N/A	#N/A	
39									#N/A	#N/A	
40									#N/A	#N/A	
41									#N/A	#N/A	
42									#N/A	#N/A	
43									#N/A	#N/A	
44									#N/A	#N/A	
45									#N/A	#N/A	
46									#N/A	#N/A	
47									#N/A	#N/A	
48									#N/A	#N/A	
49									#N/A	#N/A	
50									#N/A	#N/A	
51									#N/A	#N/A	
52									#N/A	#N/A	
53									#N/A	#N/A	
54									#N/A	#N/A	
55									#N/A	#N/A	
56									#N/A	#N/A	
57									#N/A	#N/A	
58									#N/A	#N/A	
59									#N/A	#N/A	
60									#N/A	#N/A	
61									#N/A	#N/A	
62									#N/A	#N/A	
63									#N/A	#N/A	
64									#N/A	#N/A	
65									#N/A	#N/A	
66									#N/A	#N/A	
67									#N/A	#N/A	
68									#N/A	#N/A	

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69									#N/A	#N/A	
70									#N/A	#N/A	
71									#N/A	#N/A	
72									#N/A	#N/A	
73									#N/A	#N/A	
74									#N/A	#N/A	
75									#N/A	#N/A	
76									#N/A	#N/A	
77									#N/A	#N/A	
78									#N/A	#N/A	
79									#N/A	#N/A	
80									#N/A	#N/A	
81									#N/A	#N/A	
82									#N/A	#N/A	
83									#N/A	#N/A	
84									#N/A	#N/A	
85									#N/A	#N/A	
86									#N/A	#N/A	
87									#N/A	#N/A	
88									#N/A	#N/A	
89									#N/A	#N/A	
90									#N/A	#N/A	
91									#N/A	#N/A	
92									#N/A	#N/A	
93									#N/A	#N/A	
94									#N/A	#N/A	
95									#N/A	#N/A	
96									#N/A	#N/A	
97									#N/A	#N/A	
98									#N/A	#N/A	
99									#N/A	#N/A	
100									#N/A	#N/A	
101									#N/A	#N/A	

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102									#N/A	#N/A	
103									#N/A	#N/A	
104									#N/A	#N/A	
105									#N/A	#N/A	
106									#N/A	#N/A	

RISK TREATMENT			RISK TREATMENT PLAN				
Treatment option(s)	Residual risk	Risk treatment plan	Actions	Responsibility	Resources	Budget	Date due









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