



ANNEXURE A – STEENBERG MMP CATALOGUE OF INFRASTRUCTURE

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1. Infrastrucutre Locality Maps



Figure 1: Properties subject to MMP and onsite dams (Map 1 of 2)

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Figure 2: Properties subject to MMP and onsite dams (Map 2 of 2)

2. Catalogue of Existing Infrastructure

The catalogue below provides a record of the existing in-stream infrastructure to which this Maintenance Management Plan applies. It is intended to identify the principal infrastructure assets requiring periodic maintenance. While every reasonable effort has been made to compile a comprehensive inventory based on available information and site inspections, it is acknowledged that it may not capture every individual infrastructure component or reflect all site conditions with complete accuracy. The omission of a minor or ancillary existing infrastructure component from this catalogue does not imply that it is unauthorised or excluded from this MMP, provided it forms part of the existing lawful infrastructure and any maintenance remains within the scope of this MMP.

Infrastructure ID	Description	Quantity	Size	Materials
Erf 11072				
Dam 1	Instream clay-lined earth-fill dam	1	1194 m ³	Clay & Soil
Dam 1 Inlet	Rock-filled earthen channel	1	n/a	Soil, rocks, PVC Pipe
Dam 1 Outlet	Stone cascade and earthen channel to Dam 2	1	n/a	Concrete, stone, soil
Dam 2	Instream clay-lined earth-fill dam	1	13 068 m ³	Clay and Soil
Dam 2 Inlet 1	Stone cascade and earthen channel from Dam 1	1	n/a	Concrete, stone, soil
Dam 2 Inlet 2	Earthen channel under stone bridge	1	n/a	Soil & vegetation
Dam 2 Outlet	Stone wall & cascading stone & earthen channel	1	n/a	Concrete, stone, soil, vegetation
Gabion Weirs	Wire mesh baskets filled with rocks	5	n/a	Wire & Rocks
Channel Crossing	Stone Bridge with channel underneath	1	±3m wide	Stone & cement
Channel Crossing	Stone Bridge with pipe culvert	5	±3m wide	Stone, cement & concrete pipe
Channel Crossing	Wooden Bridge	7	±3m wide	Wood & Metal
Treated Effluent Receiving Point	Stone & Concrete structure with PVC pipe	1	n/a	Stone, concrete, PVC pipe
Irrigation infrastructure	Underground pipes & irrigation points	n/a	n/a	Main Supply: HDPE Lateral Pipes: PVC

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Infrastructure ID	Description	Quantity	Size	Materials
Aerators in Dam 2	Surface aerator installed within the in-stream dam to improve water circulation and dissolved oxygen levels	2	n/a	Metal and plastic components.
Borehole Pump & Infrastructure	Borehole Pump & Infrastructure	2	n/a	Metal and plastic components.
Erf 11111				
Dam 4	Instream clay-lined earth fill dam with gabion reinforcements	1	1 904 m ³	Clay, soil, wire mesh, rocks
Dam 4 Inlet	Open vegetated channel	1	n/a	Soil, rocks, vegetation
Dam 4 Outlet	Piped	1	n/a	PVC Pipe
Estate Access Road	Surfaced internal estate road	n/a	±5m wide	Asphalt
Culvert underneath estate access road	Stone & Concrete culvert	1	n/a	Stone, Cement, PVC pipe, Concrete
Channel Crossing	Stone Bridge with channel underneath	1	±3m wide	Stone & cement
Channel Crossing	Stone Bridge with pipe culvert	3	±3m wide	Stone, cement & concrete pipe
Point where channel goes underground	Culvert & drains where natural flow moves into underground pipe	1	n/a	Stone, cement, concrete 2 pipes and 4 concrete drains
Underground Channel	Piped channel running underground	n/a	n/a	HDPE
Irrigation infrastructure	Underground pipes & irrigation points	n/a	n/a	Main Supply: HDPE Lateral Pipes: PVC
Aerator in Dam 4	Surface aerator installed within the in-stream dam to improve water circulation and dissolved oxygen levels	1	n/a	Metal and plastic components.
Erf 11039				
Culvert underneath	Stone & Concrete culvert	1	n/a	Stone, Cement, PVC pipe, Concrete

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Infrastructure ID	Description	Quantity	Size	Materials
estate access road				
Dam 11	Instream clay-lined earth fill dam	1	2914 m ³	Clay, soil, wire mesh, rocks
Dam 11 Inlet 1	PVC Pipe from Dam 12	1	n/a	PVC Pipe
Dam 11 Outlet	PVC Pipe	1	n/a	PVC Pipe
Stormwater inflow into Dam 11	Brick stormwater diversion from estate	1	n/a	Brick & concrete
Dam 12	Instream clay-lined earth fill dam	1	541 m ³	Clay & soil
Dam 12 Inlet	Broad gabion channel	1	±5m wide	Wire mesh & rock
Dam 12 Outlet	PVC Pipe	1	n/a	PVC Pipe
Dam 13	Instream clay-lined earth fill dam with gabion reinforcements	1	1496 m ³	Clay, soil, wire mesh, rocks
Dam 13 Inlet 1	Stone culvert and gabions	1	n/a	Stone, cement, concrete, wire mesh, rocks
Dam 13 Outlet	Broad gabion channel	1	±5m wide	Wire mesh & rock
Stormwater inflow into Dam 13	Concrete stormwater diversion from estate	1	n/a	Concrete & Metal
Channel Crossing	Stone with pipe culvert	4	±3m wide	Stone, cement & concrete pipe
Channel Crossing	Wooden Bridge	2	±3m wide	Wood & Metal
Underground Channel	Piped channel running underground	n/a	n/a	HDPE
Irrigation infrastructure	Underground pipes & irrigation points	n/a	n/a	Main Supply: HDPE Lateral Pipes: PVC
Erf 12379				
Dam 6	Off stream, plastic composite lined earth filled dam	Erf 12379	6 360 m ³	Soil & Liner
Dam 7	Instream, clay lined earth filled dam	1	14 835 m ³	Soil & Clay
Dam 7 Inlet 1	Open, rock lined channel	1	n/a	Soil & rocks
Dam 7 Inlet 2	Stone & Cement open channel	1	n/a	Stone & Cement
Dam 7 Outlet	PVC Pipe leading to culvert	n/a	n/a	PVC Pipe, concrete culvert

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Infrastructure ID	Description	Quantity	Size	Materials
Dam 8	Instream, clay lined earth filled dam		213 m ³	Soil & Clay
Dam 8 Inlet	Open vegetated channel	n/a	n/a	Soil & Vegetation
Dam 8 Outlet	Stone & Cement Open Channel	n/a	n/a	Stone & Cement
Dam 9	Instream, clay lined earth filled dam	Erf 12379	1 632 m ³	Soil & Clay
Dam 9 Inlet	PVC Pipe	n/a	n/a	PVC Pipe
Dam 9 Outlet	Stone overflow & PVC Pipe	n/a	n/a	Stone, cement, PVC Pipe
Dam 10	Instream, clay lined earth filled dam with stone wall reinforcements	1	1 991 m ³	Soil, clay, stone, cement
Dam 10 Inlet	PVC Pipe	n/a	n/a	PVC Pipe
Dam 10 Outlet	PVC Pipe	n/a	n/a	PVC Pipe
Channel Crossing	Stone Bridge with pipe culvert	2	±3m wide	Stone, cement & concrete pipe
Channel Crossing	Wooden Bridge	1	±3m wide	Wood & Metal
Underground Channel	Piped channel running underground	n/a	n/a	HDPE
Irrigation infrastructure	Underground pipes & irrigation points	n/a	n/a	Main Supply: HDPE Lateral Pipes: PVC
Aerators in Dam 7	Nano bubbler and fountain installed within the in-stream dam to improve water circulation and dissolved oxygen levels	2	n/a	Metal and plastic components.