

Steenbras Catchment and
Wellfield

Method Statement: Maintenance and Repair

City of Cape Town

Document control record

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1 Introduction

1.1 Method statement

A Method Statement is a “live document” in that modifications are negotiated between the Contractor and the ECO or project management team, as circumstances unfold. All Method Statements will form part of the EMMP documentation and are subject to all terms and conditions contained within the EMMP.

1.2 Form A and Form B

The following templates (Form A and Form B) must be used for all method statements.

The DEA&DP may, within a reasonable notice period, request to evaluate the maintenance activities and assess the maintenance sites as per the adopted EMMP.

Form A should be completed at least 7 working days before the commencement of any maintenance activity and Form B at least 3 working days following the completion of the maintenance activity(ies). At least two photographs are required from two different points of perspective (A and B) looking at the site (coordinates of these points are required). When listing the type and reference code, this must be done by specifically listing the relevant detail within the adopted EMMP as well as the mitigation measures contained in the EMMP.

All method statements must be compiled by the contractor and as a minimum be approved by the ECO appointed to oversee the maintenance activities.

Table 3 and Table 4 contains co-ordinates and photos that can be copied into Form A as required.

Table 1 Reporting for intent to undertake maintenance activities – Form A

REPORTING FOR INTENT TO UNDERTAKE MAINTENANCE ACTIVITIES – FORM A				
Section A: Landowner Details				
Name	Surname	Farm No.	Erf No.	Today's Date
Section B: Details of proposed maintenance activity				
WUA/GA reference number and DEA&DP reference number for MMP.	Activity Type:	Reference code (<i>make reference to MMP</i>)	Footprint area (m ²)	Volume of material (m ³)
Equipment to be used:	Description of method for planned activity:			Date when work will commence:
Date of last flood event for site:	Note any further damage and comments regarding the state of the site			
Section C: Photographs of activity location before maintenance				
Before A: Co-ordinates S and E				
Before B: Co-ordinates S and E				

Date of Photos	
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Table 2 Reporting for intent to undertake maintenance activities – Form B

REPORTING FOR COMPLETION OF MAINTENANCE ACTIVITIES – FORM B				
Section A: Landowner Details				
Name	Surname	Farm No.	Erf No.	Today's Date
Section B: Details of proposed maintenance activity				
WUA/GA reference number and DEA&DP reference number for MMP.	Activity Type:	Reference code (<i>make reference to MMP</i>)	Footprint area (m ²)	Volume of material (m ³)
Equipment that was used:	Description of method for completed activity and if commence date changed			Date activity completed
Date of last flood event for site:	Note any challenges or difficulties experienced in following the MMP method statement			
Section C: Photographs of activity location after maintenance				
After A: Co-ordinates S and E				
After B: Co-ordinates S and E				
Date of Photos				

Table 3 Steenbras Wellfield infrastructure crossing (below- and above-ground) watercourses

Ref #	Start		End		Infrastructure	Properties
1	34° 9'37.24"S	18°56'47.23"E	34° 9'38.06"S	18°56'46.09"E	Below ground pipeline and drift crossing.	Remainder of portion 5 of farm portion 309
						
2	34° 9'40.58"S	18°56'41.35"E	34° 9'41.51"S	18°56'39.92"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
3	34° 9'45.42"S	18°56'32.69"E	34° 9'45.29"S	18°56'31.25"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						

Ref #	Start		End		Infrastructure	Properties
4	34° 9'42.79"S	18°56'29.05"E	34° 9'40.98"S	18°56'27.45"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309
						
5	34° 9'36.39"S	18°56'21.08"E	34° 9'37.38"S	18°56'19.32"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
6	34° 9'42.05"S	18°56'11.95"E	34° 9'42.26"S	18°56'11.33"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309
						

Ref #	Start		End		Infrastructure	Properties
7	34° 9'46.90"S	18°56'0.04"E	34° 9'52.06"S	18°55'50.96"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
8	34° 9'52.15"S	18°55'50.83"E	34° 9'53.73"S	18°55'48.19"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
9	34° 9'54.91"S	18°55'45.88"E	34° 9'55.29"S	18°55'45.31"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
10	34° 9'55.56"S	18°55'44.87"E	34° 9'56.60"S	18°55'43.14"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
11	34° 9'57.01"S	18°55'42.46"E	34° 9'58.04"S	18°55'40.77"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
12	34° 9'58.19"S	18°55'40.38"E	34°10'0.31"S	18°55'37.43"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
13	34°10'1.37"S	18°55'35.02"E	34°10'1.95"S	18°55'33.61"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
14	34°10'2.45"S	18°55'32.69"E	34°10'3.39"S	18°55'31.06"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
15	34°10'4.67"S	18°55'28.69"E	34°10'5.96"S	18°55'26.29"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
16	34°10'7.13"S	18°55'24.08"E	34°10'8.52"S	18°55'21.86"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
17	34°10'9.08"S	18°55'20.96"E	34°10'9.60"S	18°55'20.16"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
18	34°10'10.59"S	18°55'18.91"E	34°10'10.59"S	18°55'18.91"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
19	34°10'13.12"S	18°55'14.39"E	34°10'16.39"S	18°55'8.10"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
20	34°10'17.30"S	18°55'5.99"E	34°10'18.25"S	18°55'3.62"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309
						
21	34°10'22.58"S	18°54'52.98"E	34°10'25.16"S	18°54'46.66"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						

Ref #	Start		End		Infrastructure	Properties
22	34°10'33.29"S	18°54'19.77"E	34°10'34.70"S	18°54'17.70"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309
						
23	34°10'42.64"S	18°53'56.33"E	34°10'10.59"S	18°55'18.91"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
24	34°10'52.05"S	18°53'40.36"E	34°10'55.38"S	18°53'36.27"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						

Ref #	Start		End		Infrastructure	Properties
25	34°11'1.96"S	18°53'31.96"E	34°11'3.68"S	18°53'31.69"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
26	34°11'5.18"S	18°53'31.72"E	34°11'5.62"S	18°53'31.86"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
27	34°11'8.83"S	18°53'31.03"E	34°11'9.74"S	18°53'30.84"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						

Ref #	Start		End		Infrastructure	Properties
28	34°11'10.80"S	18°53'30.92"E	34°11'14.01"S	18°53'32.10"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
29	34°11'15.22"S	18°53'32.84"E	34°11'16.99"S	18°53'34.71"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
30	34°11'17.61"S	18°53'35.80"E	34°11'15.94"S	18°53'40.54"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
31	34°11'9.17"S	18°53'51.60"E	34°11'8.03"S	18°53'54.10"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
32	34°11'7.20"S	18°53'56.37"E	34°11'5.37"S	18°54'3.05"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
33	34°10'39.48"S	18°54'30.15"E	34°10'39.48"S	18°54'30.15"E	Below ground pipeline and bridge.	Remainder of portion 5 of farm portion 309
						
34	34°11'19.20"S	18°53'30.93"E	34°11'20.44"S	18°53'28.65"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
35	34°11'23.23"S	18°53'27.22"E	34°11'25.09"S	18°53'26.09"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
36	34°11'26.31"S	18°53'25.20"E	34°11'27.05"S	18°53'23.99"E	River crossing: Aboveground pipeline and bridge	Remainder of portion 5 of farm portion 309
						
37	34°11'28.29"S	18°53'21.11"E	34°11'28.84"S	18°53'18.62"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
38	34°11'28.98"S	18°53'17.92"E	34°11'30.44"S	18°53'14.58"E	Above ground pipeline and access road.	Remainder of portion 5 of farm portion 309
39	34°11'32.21"S	18°53'11.05"E	34°11'33.67"S	18°53'8.43"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
40	34°11'34.31"S	18°53'7.29"E	34°11'34.77"S	18°53'6.00"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
41	34°11'35.83"S	18°53'3.41"E	34°11'36.44"S	18°53'1.47"E	Above ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
42	34°11'37.06"S	18°52'59.24"E	34°11'37.30"S	18°52'58.59"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
43	34°11'37.35"S	18°52'58.47"E	34°11'38.85"S	18°52'53.45"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
44	34°11'39.46"S	18°52'52.16"E	34°11'41.37"S	18°52'47.63"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
45	34°11'41.85"S	18°52'46.33"E	34°11'42.10"S	18°52'45.66"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
46	34°11'42.70"S	18°52'44.31"E	34°11'42.94"S	18°52'41.71"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
47	34°11'43.84"S	18°52'36.28"E	34°11'44.88"S	18°52'34.68"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
48	34°11'45.40"S	18°52'33.94"E	34°11'46.19"S	18°52'32.15"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
49	34°10'37.95"S	18°54'29.32"E	34°10'37.98"S	18°54'29.74"E	Below ground pipeline and bridge.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
50	34° 11'3"S	18°53'27.32"E	34° 11'3.01"S	18°53'26.84"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
51	34° 11'8.26"S	18°53'15.66"E	34° 11'8.01"S	18°53'15.46"E	Above ground pipeline with steel girder bridge.	Remainder of portion 5 of farm portion 309
						
52	34° 9'37.98"S	18°57'16.33"E	34° 9'37.75"S	18°57'16.14"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309

Ref #	Start		End		Infrastructure	Properties
						
53	34° 9'24.47"S	18°56'39.63"E	34° 9'24.26"S	18°56'39.44"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						
54	34° 9'26.49"S	18°56'35.55"E	34° 9'26.26"S	18°56'35.38"E	Below ground pipeline and access road.	Remainder of portion 5 of farm portion 309
						

1) Vegetation clearance around borehole sites

Table 4 Vegetation clearance around borehole sites

Ref #	Infrastructure	Properties	Coordinates	Photo (Taken during early 2022)
H1A1	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34° 9'37.25" S 18°56'47.01" E	
H1A2	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34° 9'39.99" S 18°56'26.54" E	
H1A3 b	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34° 9'57.91"S 18°55'40.58" E	
H1A4 b	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°10'22.68" S 18°55'26.94" E	
H8A2	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'4.69"S 18°54'7.41"E	

Ref #	Infrastructure	Properties	Coordinates	Photo (Taken during early 2022)
H8A4	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'7.75"S 18°53'55.90"E	
H8A5	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'36.87"S 18°53'0.62"E	
H8A7	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'17.49"S 18°53'35.01"E	
H8A9	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°10'46.46"S 18°54'31.84"E	

Ref #	Infrastructure	Properties	Coordinates	Photo (Taken during early 2022)
H8A10	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'17.26" S 18°53'34.94" E	
H8A11	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°11'9.41" S 18°53'11.69" E	
H8A13	Production borehole pumphouse	Farm 309 Portion 5, Caledon RD	34°10'54.76" S 18°53'36.59" E	

In diversity there is beauty and there is strength.

MAYA ANGELOU

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