

**APPENDIX B (R1) - TABLE E7.2 : SITE SPECIFIC MANHOLE CONDITIONS AND REPAIR REQUIREMENTS**

STREET_NAME	LOCATION_DETAILS	MANHOLE_ID	MANHOLE_CONDITION	REPAIRS REQUIRED		
1	SINCLAIR ST (CL)	MH AT REDWOOD AV	S-MH00012925	All risers fractured or cracked	Replace all risers and grout base	
2	SINCLAIR ST (CL)	MH AT BOYD AV	S-MH00010347	All risers fractured or cracked	Replace top 600mm of 750mm conc risers, grout cracks in remaining risers	
3	ASSINIBOINE AV	MH AT ASSINIBOINE AV	S-MH20002662	Conc MH in fair condition	Replace broken frame, replace bottom 3 steps	
4	ASSINIBOINE AV	1ST MH S OF ASSINIBOINE AV	S-MH70000004	Chamber in good condtion, No steps in chamber	No action required	no video
5	PORTAGE AV	1ST MH W OF RIVERBEND CR (W LEG)	S-MH20008231	Forcemain discharge, heavy spalling on risers, steps unsafe, stack changes to rectangular at 3.0m	Remove 90° forcemain elbow and replace with external drop structure, install new steps	
6	PORTAGE AV	MH AT GARDERN RD (CL)	S-MH20008298	Moderate spalling on conc risers	Patch under conc reducer section at 0.45m, patch holes in reducer section, patch risers where spalling is located, grout around outside of service at 3.2m	
7	PORTAGE AV [S PL]	1ST MH W OF ST. JOHN AMBULANCE WAY	S-MH20010435	Brick risers at top of MH, conc risers in fair condition, rectangular stack below 1.35m	Grout below frame and patch brick risers	
8	PORTAGE AV [S PL]	1ST MH E OF ST. JOHN AMBULANCE WAY	S-MH20010446	Brick risers at top of MH, conc risers in fair condition, rectangular stack below 1.95m	Grout below frame and patch brick risers	
9	WOLSELEY AV [N OF CL]	1ST MH E OF STILES ST	S-MH20010489	Brick risers at top of MH, conc risers in fair condition, rectangular stack below	Grout below frame and patch brick risers	no video
10	WOLSELEY AV [N OF CL]	MH AT CLIFTON ST S	S-MH20010497	1 row of bricks under frame, concrete risers in good condition, wire in MH (maybe for flow monitoring)	No action required	
11	CLIFTON ST N (WESTON ST)	MH AT NOTRE DAME AV (N OF CL)	S-MH20011676	No usable steps, fractured and broken conc risers	Replace the top 4.5m of conc risers	
12	CLIFTON ST N	MH AT NOTRE DAME AV (S PL)	S-MH20011646	Brick risers at top in poor condition, remaining 0.3m conc risers in poor to fair condition	Replace the top 3.0m of conc risers	
13	BROADWAY (CL)	MH AT LANGSIDE ST (CL)	S-MH20013275	Some newer conc riser sections	No action required	no video
14	BROADWAY (CL)	MH AT YOUNG ST (CL)	S-MH20013273	Some newer conc riser sections	No action required	no video
15	JOHN HIRSCH PL	1ST MH N OF BANNATYNE AVE	S-MH20014697	New conc risers to 1.88m	No action required	no video
16	JOHN HIRSCH PL	MH AT BANNATYNE AV (2ND MH E OF RORIE ST)	S-MH20014685	MH in good condition	No action required	no video
17	ELLICE AV	MH AT SPENCE ST	S-MH20014974	Brick MH in good condition	No action required	no video
18	ELLICE AV	MH AT BALMORAL ST	S-MH20014958	Top section of MH is newer, reducer at 2.8m, MH in very good condition, PVC pipe intruding into MH at 2.65m	No action required	no video
19	MCPHILLIPS ST (CL)	MH AT ALEXANDER AV W	S-MH20017685	0.3m of brick risers in poor shape, cracked and fractured conc risers sections	Replace 1st 1.8m of risers, grout cracks in remaining risers	no video
20	MCPHILLIPS ST (CL)	MH AT ROSS AV	S-MH20017468	Conc risers in good condition	No action required	no video
21	ALEXANDER AV	MH AT DOROTHY ST	S-MH70028371	Newer MH in good condition	No action required	no video
22	ALEXANDER AV	MH AT BEACON ST	S-MH20017761	Poor grouting under frame	Grout under frame	no video
23	HENDERSON HWY	MH AT DONALDA AVE.	S-MH40004951	1 row of bricks under frame, concrete risers in fair condition	Replace row of brick risers with 0.1m conc riser, grout cracked conc risers	
24	HENDERSON HWY	MH AT MUNROE AVE.	S-TE70030362	Tee (Branch) not a MH	No action required	
25	HENDERSON HWY	MH AT TRENT AV	S-MH40004963	Top 0.45m conc risers cracked and fractured, remaining conc risers in fair condition, MH stack is square from 3.0m to bottom	Replace top 0.45m conc risers	
26	COSMO PL	1ST MH E OF EATON ST	S-MH40009984	No usable steps	Install new steps top to bottom and patch conc riser at 1.83m	
27	COSMO PL	1ST MH W OF EATON ST	S-MH40009974	2 rows of bricks under frame, MH stack is square from 3.0m to bottom	Reset shifted frame, replace bricks under frame with 0.2m conc riser, patch conc riser joint at 3.4m	
28	COSMO PL	1ST MH W OF BERLIN ST (SOUTH SEWER)	S-MH40009975	Frame and cover in poor condition, 1 row of bricks under frame, MH stack offset from sewer	Replace frame and cover, replace bricks under frame with 0.1m conc riser, patch hole in riser at 2.5m, grout joint in riser at 3.65m	

29	NAIRN AV	1ST MH W OF GREY ST	S-MH40009973	MH in W bound lane of overpass, fractured riser below frame, large amount of debris at invert	Replace 0.1m riser below frame, grout riser joint at 2.15m, install 17 steps	
30	CARRIERE AV	MH AT HILL ST	S-MH50006481	750mm to 900mm reducer just below frame, MH in poor condition	Replace 200mm conc riser and grout remaining conc risers and joints as required, remove intruding PVC services, remove old horseshoe steps and install 8 new steps, grout around outside of CB leads at MH interface	no video
31	CARRIERE AV	MH AT BRAEMAR AV	S-MH50006478	Row of bricks under frame, 750mm to 900mm reducer below bricks, CB leads in MH stack	Replace bricks with 100mm conc riser and grout remaining conc risers and joints as required, remove intruding PVC services, grout around outside of CB leads at MH interface	no video
32	CARRIERE AV	1ST MH W OF BRAEMAR AV	S-MH50006482	750mm to 900mm flat top reducer under frame, PVC CB lead from back lane	Grout conc riser joints as required	no video
33	ACADEMY RD	MH AT CENTENNIAL ST	S-MH60005344	row of bricks under frame, MH in very poor condition, conc risers badly degraded	Replace MH stack	
34	ACADEMY RD	MH AT BEAVERBROOK (W PL)	S-MH60005403	MH in very poor condition, conc risers badly degraded	Replace MH stack	
35	ACADEMY RD	MH AT BEAVERBROOK (CL)	S-MH60005404	MH in Excellent Condition	No action required	
36	OSBORNE ST (WPL)	MH @ KYLEMORE AVE	S-MH60007164	MH in poor condition	Replace MH stack	
37	OSBORNE ST (WPL)	MH @ WALKER AVE	S-MH60007145	Top 0.9m of MH risers fractured	Replace top 0.9m of conc risers, patch remaining cracked conc riser sections as required	
38	CARRIERE AV	MH AT ST MARYS RD (CL)	S-MH50006483	3 rows of brick risers, flat top reducer with 0.3m of 750mm and the remaining stack is 900mm, 2 intruding PVC leads intruding into MH	Remove brick risers and replace with 900 conc risers. Patch cracked risers and joints throughout remaining MH stack. Remove intruding services in stack. Grout around service pipes.	
39	MCPHILLIPS ST (CL)	MH S PL LOGAN AV	S-MH20017703	Top 0.1m of riser has voids in it, remaining conc risers in fair condition, risers appear to have been patched already	Replace top 0.1m riser section	no video
40	ELLICE AV	1ST MH W SPENCE ST	S-MH70008172	6 rows of bricks in poor condition, remaining 750mm conc risers in good condition	Replace bricks with 300mm conc riser section	no video
41	ELLICE AV	MH AT SPENCE ST CL	S-MH20014974	750mm wide brick risers make up stack and are in good condition, 5 horse shoe steps at bottom, otherwise no steps	Remove 5 horseshoe steps and install 15 new steps	no video
42	ELLICE AV	MH AT YOUNG ST	S-MH20014973	750mm wide brick risers make up stack, top 1.2m of bricks in poor condition, the remaining bricks are in fair condition	Replace top 1.0m of bricks with 1.2m of conc riser sections	no video
43	ELLICE AV	1ST MH W SPENCE ST	S-MH70056635	MH under pavement	City to expose MH prior to lining if required	no video
44	ACADEMY RD	MH AT WELLINGTON CR S WPL	S-MH70027167	750mm to 1200mm flat top reducer, MH in excellent condition	No action required	
45	ACADEMY RD	MH AT WELLINGTON CR S CL	S-MH60005407	750mm to 1200mm flat top reducer, MH in excellent condition	No action required	