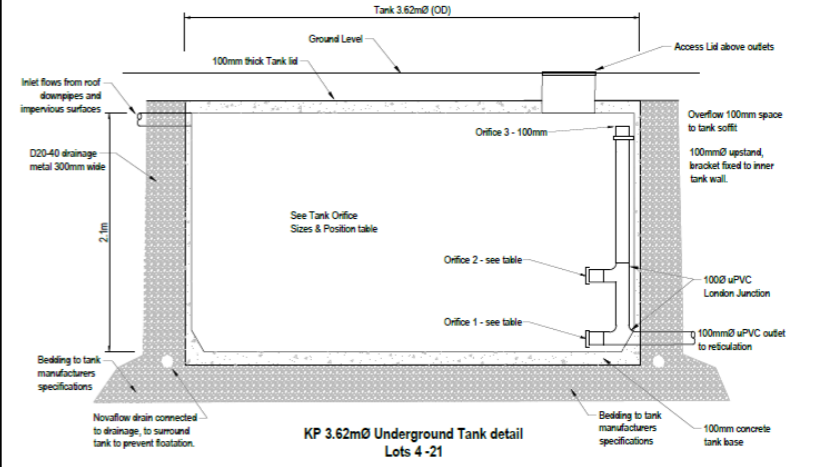


455 tūāwharangi Road, Whangaparaoa Stormwater Management Plan Summary

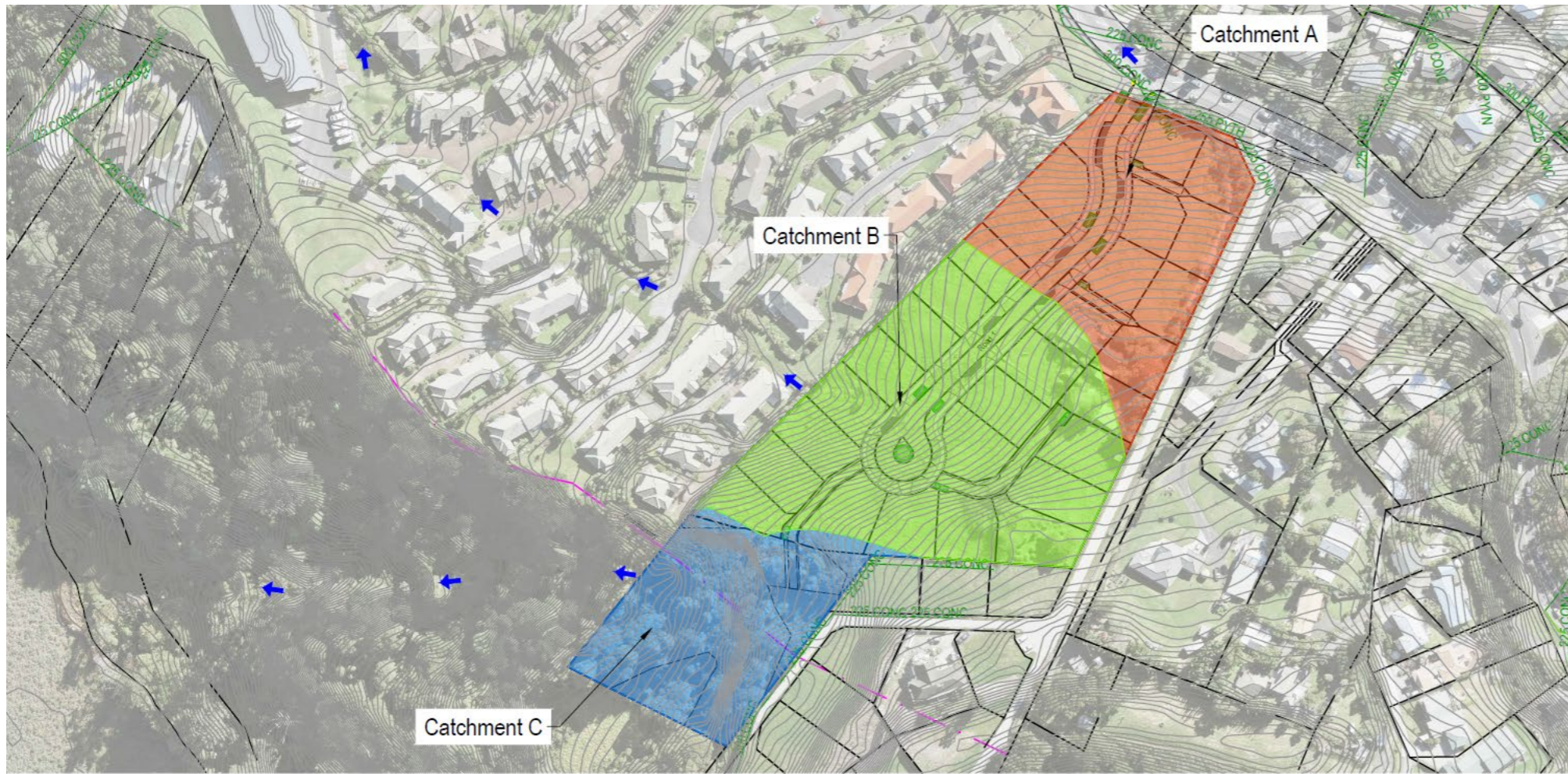
Stormwater management catchment	Proposed land use	Receiving environment	Water quality management	Hydrology mitigation (retention)	Hydrology mitigation (detention)	Flood management	Outlet design	Assets to be vested with council	General comments																																																											
Catchment B	Lots 4-21 @ Single house lot @ 60% imperviousness	Weiti River, 1.2 ha catchment diversion to to the SEA area and onto the Weiti River	Road and JOALs runoff will flow to raingardens for treatment	n/a	The proposed catchment diversion will change the hydrological balance in the existing gully/stream. Therefore, attenuation to 10-year storm event within the lots recommended to reduce the flows within the gully to pre-development of the	n/a	Bubble up chamber to discharge to existing gully	<ul style="list-style-type: none"> Pipe networks 1 Public Raingarden Bubble up chamber outfall 	<p>The following condition to be included for RC approval. Lots 4 – 21 will have a 20,000 litre detention tank to be installed at the time of building as per the details given below;</p>  <p style="text-align: center;">KP 3.62mØ Underground Tank detail Lots 4-21</p> <table border="1" data-bbox="1994 940 2754 1134"> <thead> <tr> <th>Lot Number</th> <th>Tank Size (ltr)</th> <th>Orifice 1</th> <th>Orifice 2</th> <th>Orifice 3 (Overflow)</th> </tr> <tr> <th></th> <th></th> <th>Size (mm)</th> <th>Distance to Overflow (m)</th> <th>Discharge Rate (m³/s)</th> <th>Size (mm)</th> <th>Distance to Overflow (m)</th> <th>Discharge Rate (m³/s)</th> <th>Size (mm)</th> </tr> </thead> <tbody> <tr> <td>Lots 4 and 11</td> <td>20000</td> <td>17</td> <td>1.84</td> <td>0.000585</td> <td>-</td> <td>-</td> <td>0.000845</td> <td>100</td> </tr> <tr> <td>Lots 5, 6 and 7</td> <td>20000</td> <td>21</td> <td>1.92</td> <td>0.000923</td> <td>10</td> <td>0.99</td> <td>0.001520</td> <td>100</td> </tr> <tr> <td>Lots 8, 9, 10, 20 and 21</td> <td>20000</td> <td>24</td> <td>1.91</td> <td>0.001188</td> <td>10</td> <td>0.98</td> <td>0.001920</td> <td>100</td> </tr> <tr> <td>Lots 13, 14, 16, 17, 18 and 19</td> <td>20000</td> <td>25</td> <td>1.89</td> <td>0.001307</td> <td>17</td> <td>0.93</td> <td>0.002433</td> <td>100</td> </tr> <tr> <td>Lots 12 and 15</td> <td>20000</td> <td>29</td> <td>1.88</td> <td>0.001780</td> <td>18</td> <td>0.93</td> <td>0.003145</td> <td>100</td> </tr> </tbody> </table>	Lot Number	Tank Size (ltr)	Orifice 1	Orifice 2	Orifice 3 (Overflow)			Size (mm)	Distance to Overflow (m)	Discharge Rate (m ³ /s)	Size (mm)	Distance to Overflow (m)	Discharge Rate (m ³ /s)	Size (mm)	Lots 4 and 11	20000	17	1.84	0.000585	-	-	0.000845	100	Lots 5, 6 and 7	20000	21	1.92	0.000923	10	0.99	0.001520	100	Lots 8, 9, 10, 20 and 21	20000	24	1.91	0.001188	10	0.98	0.001920	100	Lots 13, 14, 16, 17, 18 and 19	20000	25	1.89	0.001307	17	0.93	0.002433	100	Lots 12 and 15	20000	29	1.88	0.001780	18	0.93	0.003145	100
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Notes:

Low infiltration rates as per geotechnical investigation report

This document is prepared to provide a summary of the stormwater management requirements within the adopted Stormwater Management Plan. To see the full Stormwater Management Plan please contact HWDevelopment@aucklandcouncil.govt.nz

SMP Area



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Development plan

