

Appendix D

Report 10-4715R2

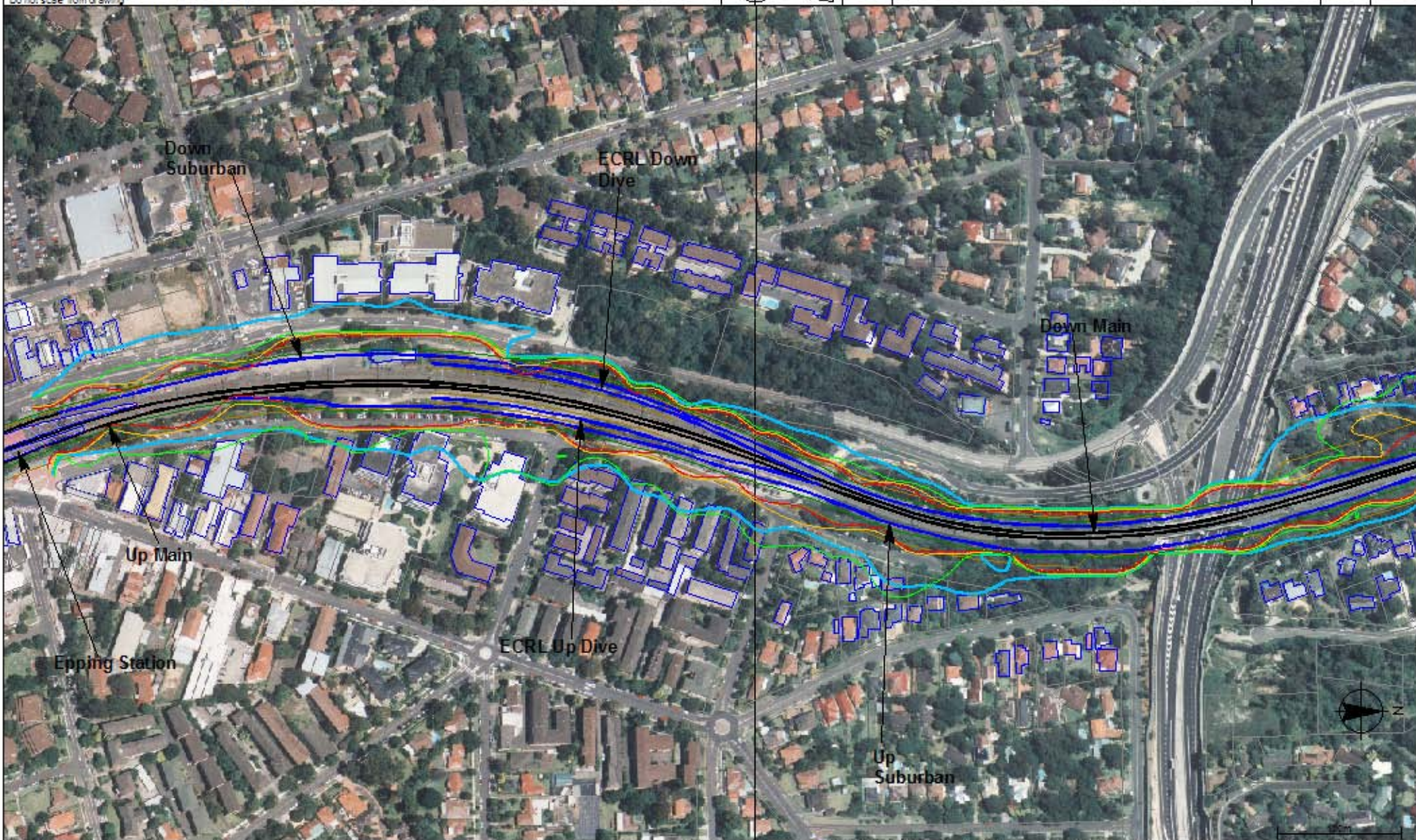
Cover Page

Main North Line - Noise Contour Plots with 2m Barriers (Passenger trains) - ground floor

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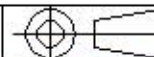
65 dBA LAmax No Barriers	60 dBA LAeq(24h) No Barriers
60 dBA LAmax with 2.0m Barriers	55 dBA LAeq(24h) with 2.0m Barriers
65 dBA LAmax with 2.0m Barriers	60 dBA LAeq(24h) with 2.0m Barriers
90 dBA LAmax with 2.0m Barriers	65 dBA LAeq(24h) with 2.0m Barriers
Barriers	Station Platform
	Existing Track
	New Train Lines

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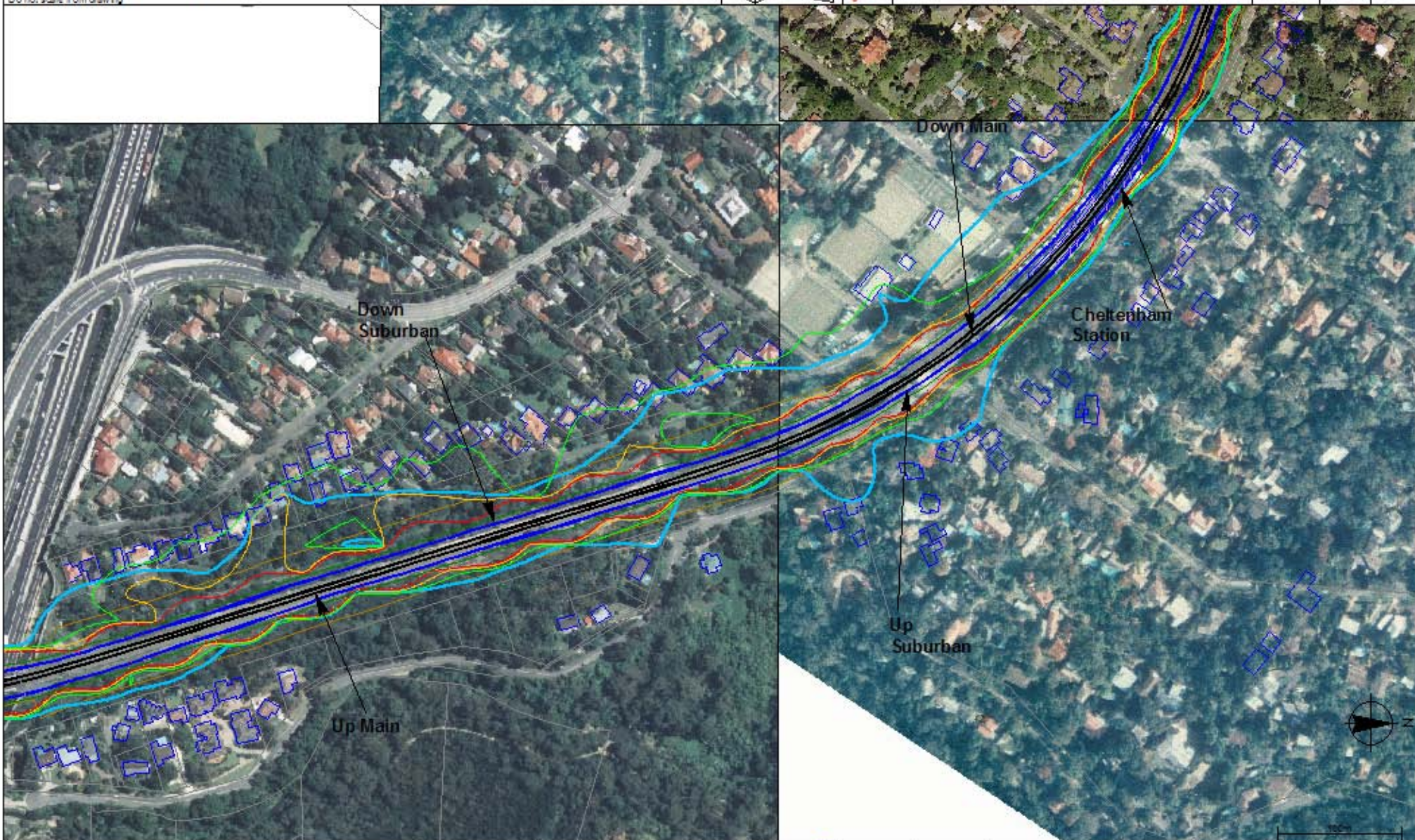


Designed by WK	Checked by CW	Approved by - date	Filename 10-4715 NWRL Appendix D	Date 19/08/2008	Scale NTS
Title 10-4715 NWRL - Appendix D Electric Passenger - Operational Phase with 2.0m Barriers Noise Contours 1.5m Above Ground				DWG.No. D-EP-OP2-NC1.5-01	Sheet 1
				Rev 0	

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65 dBA L _{max} No Barriers	60 dBA L _{Aeq} (24h) No Barriers
60 dBA L _{max} with 2.0m Barriers	55 dBA L _{Aeq} (24h) with 2.0m Barriers
65 dBA L _{max} with 2.0m Barriers	60 dBA L _{Aeq} (24h) with 2.0m Barriers
90 dBA L _{max} with 2.0m Barriers	65 dBA L _{Aeq} (24h) with 2.0m Barriers
Barriers	Station Platform
	Existing Track
	New Train Lines

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Title 10-4715 NWRL - Appendix D Electric Passenger - Operational Phase with 2.0m Barriers Noise Contours 1.5m Above Ground				DWG.No. D-EP-OP2-NC1.5-02	
				Sheet 2	Rev 0

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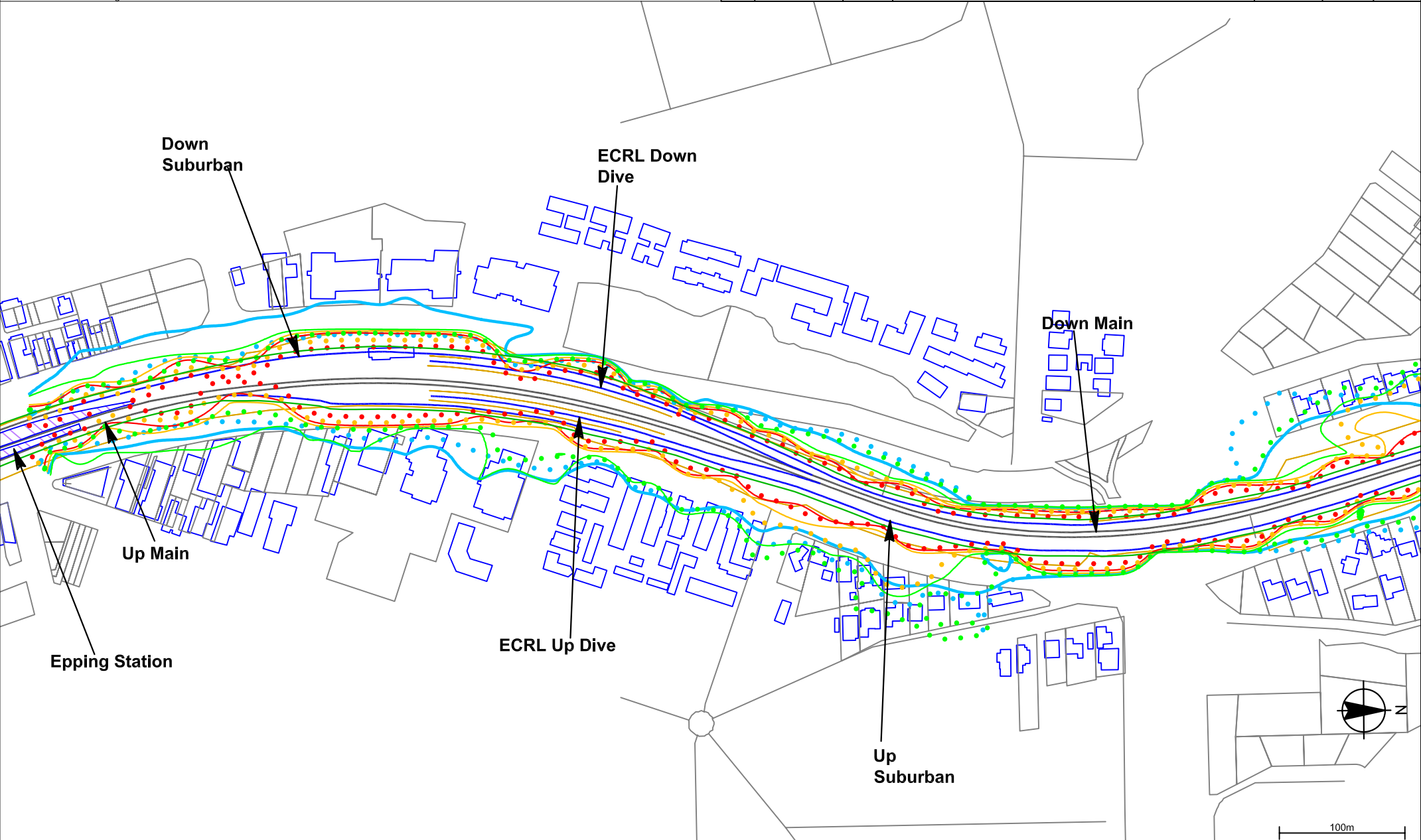
Legend 65 dBA L _{Amax} No Barriers 60 dBA L _{Amax} with 2.0m Barriers 65 dBA L _{Amax} with 2.0m Barriers 90 dBA L _{Amax} with 2.0m Barriers Barriers Station Platform Existing Track New Train Lines	60 dBA L _{Aeq} (24h) No Barriers 55 dBA L _{Aeq} (24h) with 2.0m Barriers 60 dBA L _{Aeq} (24h) with 2.0m Barriers 65 dBA L _{Aeq} (24h) with 2.0m Barriers
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Title 10-4715 NWRL - Appendix D Electric Passenger - Operational Phase with 2.0m Barriers Noise Contours 1.5m Above Ground				DWG.No. D-EP-OP2-NC1.5-03	
				Sheet 3	Rev 0

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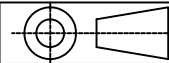


Legend			
85 dBA LAmax No Barriers	60 dBA LAeq(24h) No Barriers	Existing Track	New Train Lines
80 dBA LAmax with 2.0m Barriers	55 dBA LAeq(24h) with 2.0m Barriers		
85 dBA LAmax with 2.0m Barriers	60 dBA LAeq(24h) with 2.0m Barriers		
90 dBA LAmax with 2.0m Barriers	65 dBA LAeq(24h) with 2.0m Barriers		
Barriers	Station Platform		

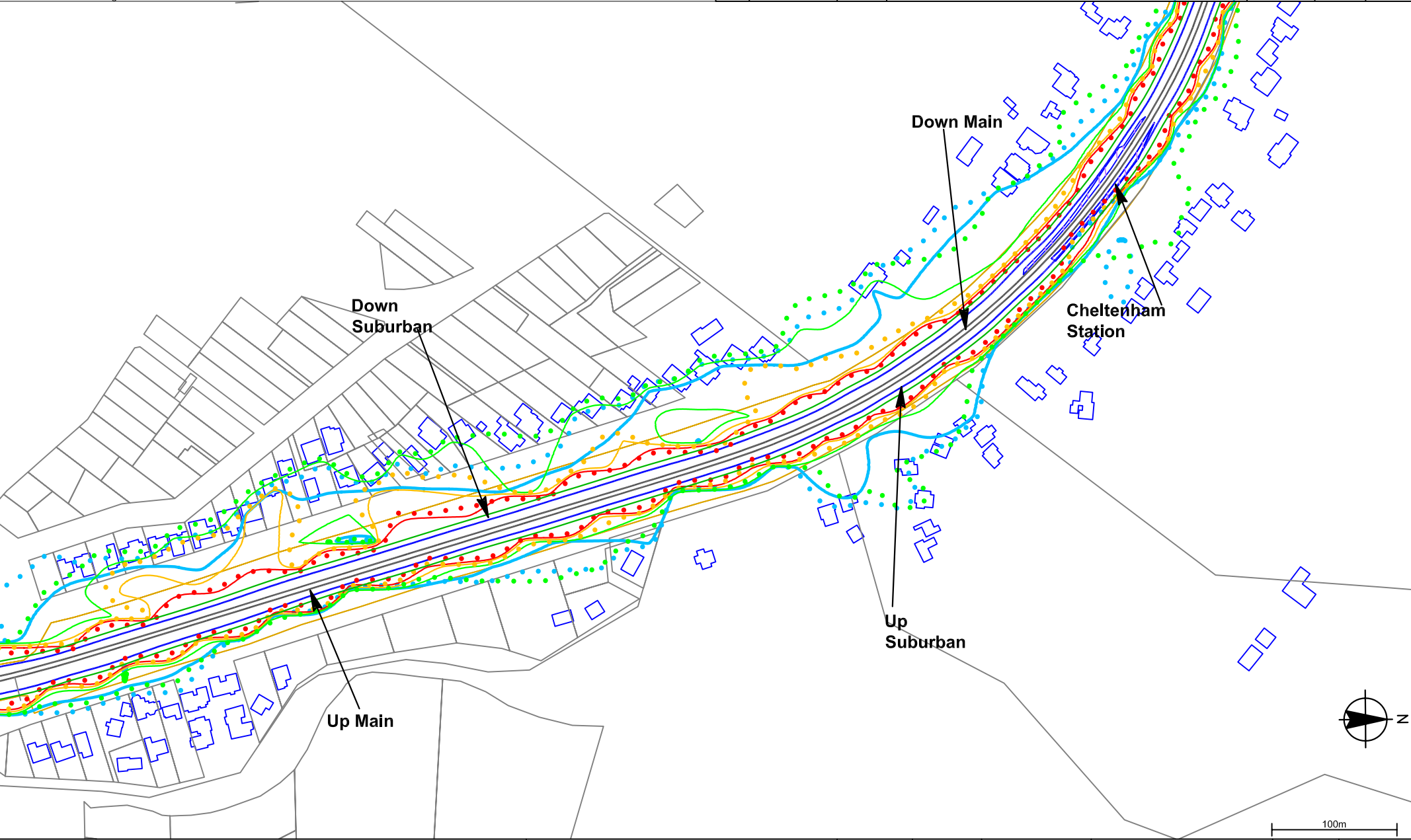
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Title 10-4715 NWRL - Appendix D Electric Passenger - Operational Phase with 2.0m Barriers Noise Contours 1.5m Above Ground				DWG.No. D-EP-OP2-NC1.5-01	
				Sheet 1	Rev 0



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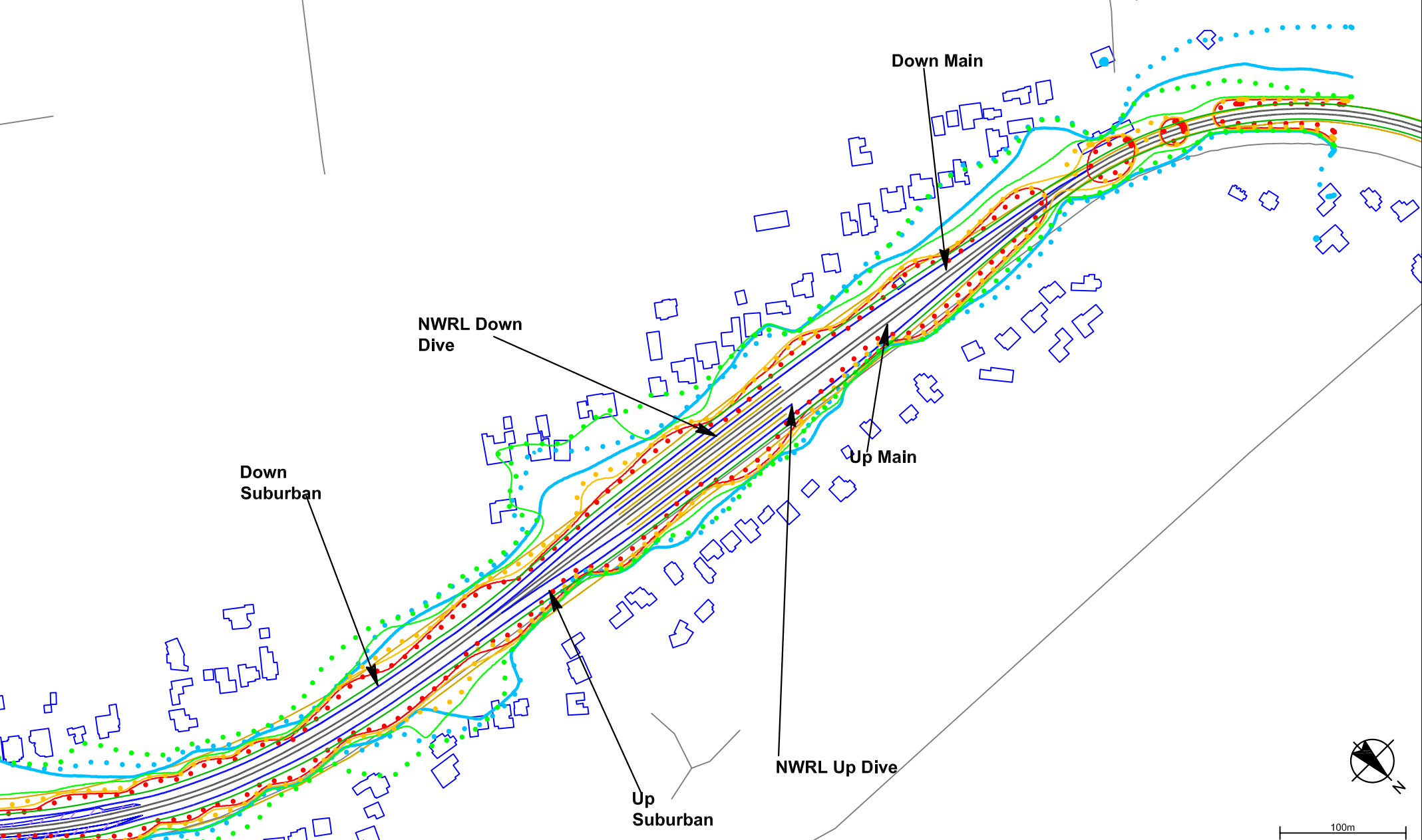


Legend			
85 dBA Lmax No Barriers	60 dBA LAeq(24h) No Barriers	Existing Track	New Train Lines
80 dBA Lmax with 2.0m Barriers	55 dBA LAeq(24h) with 2.0m Barriers		
85 dBA Lmax with 2.0m Barriers	60 dBA LAeq(24h) with 2.0m Barriers		
90 dBA Lmax with 2.0m Barriers	65 dBA LAeq(24h) with 2.0m Barriers		
Barriers	Station Platform		

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Title				DWG.No.	
10-4715 NWRL - Appendix D				D-EP-OP2-NC1.5-02	
Electric Passenger - Operational Phase with 2.0m Barriers				Sheet	Rev
Noise Contours 1.5m Above Ground				2	0

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Legend			
85 dBA LAmax No Barriers	60 dBA LAeq(24h) No Barriers	Existing Track	New Train Lines
80 dBA LAmax with 2.0m Barriers	55 dBA LAeq(24h) with 2.0m Barriers		
85 dBA LAmax with 2.0m Barriers	60 dBA LAeq(24h) with 2.0m Barriers		
90 dBA LAmax with 2.0m Barriers	65 dBA LAeq(24h) with 2.0m Barriers		
Barriers	Station Platform		

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10-4715 NWRL - Appendix D				D-EP-OP2-NC1.5-03	
Electric Passenger - Operational Phase with 2.0m Barriers				Sheet	Rev
Noise Contours 1.5m Above Ground				3	0