TECHNICAL REPORT

09

Updated noise and vibration assessment—operational rail

(Part 2 of 2)

NARROMINE TO NARRABRI PROJECT



TECHNICAL REPORT

09

Updated noise and vibration assessment—operational rail

Appendix D Predicted airborne railway noise levels—Year 2026 proposal opening

NARROMINE TO NARRABRI PROJECT

The predicted railway noise levels at the commencement of railway operations in year 2026 are detailed in the following table and noise contour maps.

The predicted noise levels are provided for the identified sensitive receivers within the 2 km study area. This includes all sensitive receivers where the predicted noise levels triggered an investigation of noise mitigation.

Following the tabulated results are the predicted noise contour maps for the daytime and night-time railway operations at the proposal opening in year 2026. The noise contours have been presented as the daytime and night-time assessment criteria adopted from the RING. All noise contours are predicted at 2.4 m above the residual ground level.

The noise contours are calculated from the interpolation of thousands of calculation points and provide an overview of the railway noise levels to assist the interpretation of the assessment and its outcomes. The tabulated noise levels at the individual sensitive receivers should be referenced when assessing railway noise levels against the criteria.

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
239732	60	55	80	47	52	74
239733	60	55	80	47	53	76
239740	60	55	80	49	54	78
239748	60	55	80	47	52	76
239751	60	55	80	46	52	76
239764	60	55	80	45	50	73
239768	60	55	80	42	47	72
239781	60	55	80	37	42	67
243368	60	55	80	44	49	73
243378	60	55	80	48	53	78
243390	60	55	80	45	50	73
243394	60	55	80	40	45	69
243428	60	55	80	48	53	77
243429	60	55	80	49	54	79
243438	60	55	80	47	52	75
243471	60	55	80	54	**60**	**85**
243473	60	55	80	52	**57**	**82**
243487	60	55	80	45	50	74
243504	60	55	80	42	48	73
243563	60	55	80	31	36	60
243585	60	55	80	39	44	68
243591	60	55	80	41	46	71
243609	60	55	80	41	45	70
243664	60	55	80	42	47	70
243690	60	55	80	47	52	76
243754	60	55	80	44	49	73
243758	60	55	80	46	52	74
243772	60	55	80	50	55	78
243783	60	55	80	44	49	73
243791	60	55	80	52	**57**	**81**
243829	60	55	80	50	54	**81**
243840	60	55	80	40	45	69
243844	60	55	80	44	50	73
243849	60	55	80	45	50	73
243853	60	55	80	46	52	74
243859	60	55	80	43	48	71
243862	60	55	80	46	51	75
243864	60	55	80	46	52	75
243867	60	55	80	48	53	76
243868	60	55	80	51	**56**	**81**
243882	60	55	80	47	52	77
243884	60	55	80	48	53	77
243895	60	55	80	44	50	73
243898	60	55	80	43	49	72
243902	60	55	80	42	47	70
243906	60	55	80	51	**56**	80
243927	60	55	80	51	**56**	**81**
243931	60	55	80	52	**57**	**82**
243937	60	55	80	44	49	73
243951	60	55	80	45	50	73
243961	60	55	80	47	52	76
243977	60	55	80	49	54	79
243983	60	55	80	44	48	71
243987	60	55	80	45	49	72
243996	60	55	80	51	55	80
244012	60	55	80	43	47	72
244013	60	55	80	44	48	72
244014	60	55	80	45	49	73
244038	60	55	80	43	48	71
244053	60	55	80	51	**56**	80
244057	60	55	80	51	**56**	80
244075	60	55	80	46	51	74
244093	60	55	80	46	51	75

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
244102	60	55	80	45	50	73
244118	60	55	80	46	52	75
244124	60	55	80	42	48	70
244131	60	55	80	44	49	73
244137	60	55	80	46	51	74
244173	60	55	80	49	53	78
244201	60	55	80	47	52	76
244211	60	55	80	46	51	75
244214	60	55	80	45	50	73
244225	60	55	80	44	49	74
244234	60	55	80	40	44	69
244255	60	55	80	37	41	66
244284	60	55	80	42	47	71
244309	60	55	80	52	**57**	**81**
244329	60	55	80	42	47	70
244376	60	55	80	44	49	72
244394	60	55	80	40	45	70
244401	60	55	80	41	46	71
244419	60	55	80	47	52	75
244422	60	55	80	42	47	70
244437	60	55	80	41	46	70
244449	60	55	80	38	42	66
244465	60	55	80	48	53	76
244483	60	55	80	46	51	75
244492	60	55	80	42	47	70
244498	60	55	80	46	51	75
244510	60	55	80	46	50	74
244531	60	55	80	47	52	75
244536	60	55	80	43	47	72
244547	60	55	80	49	54	78
244554	60	55	80	46	50	75
244568	60	55	80	43	48	72
244983	60	55	80	46	51	76
244994	60	55	80	45	51	75
245002	60	55	80	42	47	70
245004	60	55	80	41	47	70
245009	60	55	80	47	52	75
245034	60	55	80	43	48	73
245042	60	55	80	44	50	73
245044	60	55	80	45	51	74
245046	60	55	80	45	50	74
245047	60	55	80	44	49	74
245048	60	55	80	45	50	75
245053	60	55	80	47	52	76
245066	60	55	80	42	47	72
245067	60	55	80	41	46	69
245073	60	55	80	42	47	72
245074	60	55	80	40	45	68
245077	60	55	80	42	47	70
245078	60	55	80	42	47	72
245081	60	55	80	42	47	71
245083	60	55	80	42	47	70
245084	60	55	80	42	47	71
245088	60	55	80	43	48	72
245090	60	55	80	41	46	70
245091	60	55	80	42	47	70
245093	60	55	80	43	48	72
245096	60	55	80	42	47	70
245097	60	55	80	43	48	71
245103	60	55	80	42	47	71
245104	60	55	80	44	49	73
245105	60	55	80	41	47	69
245106	60	55	80	42	47	70

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245107	60	55	80	43	48	72
245113	60	55	80	41	47	70
245114	60	55	80	45	50	74
245115	60	55	80	42	48	70
245118	60	55	80	42	47	70
245120	60	55	80	41	46	70
245126	60	55	80	42	47	70
245128	60	55	80	41	47	70
245132	60	55	80	42	47	70
245135	60	55	80	42	47	70
245138	60	55	80	42	47	71
245139	60	55	80	42	47	70
245142	60	55	80	41	46	69
245144	60	55	80	42	47	70
245146	60	55	80	43	48	71
245150	60	55	80	42	47	70
245155	60	55	80	43	48	71
245156	60	55	80	43	48	72
245159	60	55	80	40	45	67
245161	60	55	80	45	50	74
245162	60	55	80	43	48	72
245164	60	55	80	44	49	72
245170	60	55	80	44	49	73
245171	60	55	80	42	47	70
245172	60	55	80	44	49	72
245175	60	55	80	42	47	69
245181	60	55	80	43	48	71
245182	60	55	80	45	50	73
245184	60	55	80	43	48	71
245185	60	55	80	42	47	70
245186	60	55	80	43	48	71
245188	60	55	80	42	47	70
245189	60	55	80	43	48	71
245190	60	55	80	41	47	69
245191	60	55	80	43	48	71
245194	60	55	80	42	47	70
245197	60	55	80	43	48	71
245198	60	55	80	42	47	69
245199	60	55	80	43	48	72
245200	60	55	80	39	45	67
245201	60	55	80	43	48	71
245203	60	55	80	42	47	70
245204	60	55	80	43	48	71
245205	60	55	80	43	48	72
245206	60	55	80	39	44	68
245208	60	55	80	43	48	72
245209	60	55	80	45	50	74
245210	60	55	80	46	52	76
245211	60	55	80	43	48	70
245212	60	55	80	41	46	68
245213	60	55	80	42	47	70
245214	60	55	80	43	48	72
245215	60	55	80	39	44	67
245216	60	55	80	42	47	69
245218	60	55	80	43	48	71
245219	60	55	80	42	47	70
245224	60	55	80	43	48	71
245225	60	55	80	42	47	69
245228	60	55	80	39	44	66
245232	60	55	80	42	47	70
245233	60	55	80	41	46	69
245234	60	55	80	44	49	73
245235	60	55	80	40	45	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245237	60	55	80	42	47	70
245240	60	55	80	42	47	70
245241	60	55	80	44	49	73
245244	60	55	80	44	49	72
245246	60	55	80	44	49	72
245248	60	55	80	41	46	68
245251	60	55	80	45	50	74
245252	60	55	80	42	47	70
245255	60	55	80	39	44	67
245258	60	55	80	42	48	71
245259	60	55	80	44	49	71
245262	60	55	80	42	47	70
245265	60	55	80	41	46	69
245268	60	55	80	43	49	71
245269	60	55	80	36	41	64
245274	60	55	80	42	47	69
245275	60	55	80	38	43	66
245276	60	55	80	44	49	72
245279	60	55	80	42	47	71
245280	60	55	80	40	46	68
245283	60	55	80	43	48	70
245285	60	55	80	40	45	67
245286	60	55	80	41	47	70
245289	60	55	80	37	42	64
245290	60	55	80	44	49	72
245294	60	55	80	44	49	72
245295	60	55	80	42	47	71
245296	60	55	80	42	47	70
245298	60	55	80	40	46	68
245299	60	55	80	41	46	69
245300	60	55	80	40	45	67
245309	60	55	80	42	47	70
245311	60	55	80	43	48	70
245312	60	55	80	41	46	68
245313	60	55	80	42	47	70
245314	60	55	80	41	46	69
245316	60	55	80	39	45	68
245317	60	55	80	38	43	65
245319	60	55	80	38	43	65
245321	60	55	80	42	47	70
245323	60	55	80	39	44	67
245324	60	55	80	42	47	70
245325	60	55	80	39	44	68
245328	60	55	80	41	46	69
245330	60	55	80	41	47	69
245334	60	55	80	44	49	72
245336	60	55	80	38	43	65
245337	60	55	80	40	45	68
245339	60	55	80	46	51	73
245340	60	55	80	42	48	70
245341	60	55	80	42	47	70
245344	60	55	80	44	49	72
245345	60	55	80	42	47	70
245346	60	55	80	41	46	69
245349	60	55	80	42	47	71
245351	60	55	80	41	47	70
245352	60	55	80	42	47	70
245353	60	55	80	42	47	70
245354	60	55	80	38	44	67
245355	60	55	80	39	44	66
245356	60	55	80	43	48	71
245357	60	55	80	42	47	71
245358	60	55	80	45	50	74

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245359	60	55	80	38	43	66
245360	60	55	80	39	44	65
245361	60	55	80	43	48	72
245362	60	55	80	39	45	67
245366	60	55	80	37	42	65
245367	60	55	80	43	49	72
245368	60	55	80	38	43	67
245371	60	55	80	40	45	68
245372	60	55	80	40	45	67
245374	60	55	80	45	51	73
245376	60	55	80	40	45	67
245378	60	55	80	40	45	68
245381	60	55	80	45	50	74
245382	60	55	80	40	45	68
245385	60	55	80	36	41	65
245387	60	55	80	40	45	67
245391	60	55	80	40	45	68
245393	60	55	80	41	46	69
245395	60	55	80	45	50	73
245396	60	55	80	41	46	69
245399	60	55	80	39	44	68
245400	60	55	80	41	46	69
245401	60	55	80	42	47	71
245403	60	55	80	40	45	67
245404	60	55	80	40	45	68
245411	60	55	80	39	44	66
245412	60	55	80	42	47	70
245415	60	55	80	40	45	67
245416	60	55	80	43	48	72
245418	60	55	80	38	43	66
245419	60	55	80	39	44	67
245422	60	55	80	41	46	69
245423	60	55	80	42	48	70
245424	60	55	80	44	50	73
245429	60	55	80	44	49	73
245430	60	55	80	39	44	66
245431	60	55	80	41	46	69
245432	60	55	80	58	**63**	**88**
245434	60	55	80	44	49	72
245438	60	55	80	46	51	76
245439	60	55	80	41	46	70
245440	60	55	80	44	49	72
245441	60	55	80	41	46	70
245442	60	55	80	45	51	74
245443	60	55	80	46	51	75
245445	60	55	80	41	46	69
245446	60	55	80	41	46	69
245447	60	55	80	40	45	69
245449	60	55	80	41	46	70
245451	60	55	80	41	46	70
245452	60	55	80	46	51	74
245453	60	55	80	41	46	69
245454	60	55	80	54	**59**	**84**
245455	60	55	80	40	46	69
245456	60	55	80	42	47	71
245459	60	55	80	59	**64**	**89**
245462	60	55	80	50	55	80
245463	60	55	80	41	46	70
245466	60	55	80	41	46	69
245469	60	55	80	41	46	69
245470	60	55	80	40	45	69
245471	60	55	80	42	47	70
245474	60	55	80	43	48	72

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245475	60	55	80	42	48	71
245476	60	55	80	42	47	71
245477	60	55	80	45	51	74
245478	60	55	80	43	49	72
245480	60	55	80	43	48	72
245481	60	55	80	44	49	72
245484	60	55	80	44	49	73
245485	60	55	80	41	46	70
245488	60	55	80	42	47	69
245489	60	55	80	44	49	73
245490	60	55	80	43	48	71
245491	60	55	80	44	49	72
245494	60	55	80	45	51	74
245496	60	55	80	45	50	73
245497	60	55	80	46	51	74
245502	60	55	80	43	49	72
245512	60	55	80	59	**64**	**89**
245517	60	55	80	58	**63**	**90**
245520	60	55	80	41	46	68
245523	60	55	80	52	**57**	**82**
245524	60	55	80	57	**62**	**87**
245541	60	55	80	53	**58**	**82**
245542	60	55	80	43	48	71
245543	60	55	80	42	47	69
245544	60	55	80	50	**56**	80
245553	60	55	80	43	49	71
245558	60	55	80	45	50	73
245578	60	55	80	46	52	75
245579	60	55	80	44	49	72
245580	60	55	80	43	48	71
245586	60	55	80	46	51	76
245588	60	55	80	37	42	66
245591	60	55	80	38	43	66
245593	60	55	80	43	48	72
245601	60	55	80	43	48	71
245604	60	55	80	39	44	67
245605	60	55	80	39	44	68
245606	60	55	80	40	45	69
245608	60	55	80	39	44	67
245611	60	55	80	40	46	70
245612	60	55	80	40	45	68
245615	60	55	80	42	47	70
245617	60	55	80	46	51	73
245619	60	55	80	40	46	70
245629	60	55	80	40	45	69
245631	60	55	80	39	45	68
245635	60	55	80	40	46	70
245638	60	55	80	47	52	75
245639	60	55	80	46	52	75
245641	60	55	80	40	45	68
245643	60	55	80	39	44	68
245644	60	55	80	38	43	68
245645	60	55	80	40	45	69
245646	60	55	80	41	46	69
245650	60	55	80	42	48	72
245651	60	55	80	40	45	68
245658	60	55	80	42	47	70
245660	60	55	80	41	46	69
245662	60	55	80	44	49	72
245663	60	55	80	42	48	71
245664	60	55	80	42	47	70
245666	60	55	80	42	47	70
245677	60	55	80	36	41	63

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245697	60	55	80	35	40	63
245705	60	55	80	37	42	64
245706	60	55	80	37	42	65
245707	60	55	80	42	47	71
245709	60	55	80	35	40	63
245713	60	55	80	36	41	64
245717	60	55	80	37	42	64
245718	60	55	80	35	40	62
245721	60	55	80	37	42	65
245722	60	55	80	36	41	64
245727	60	55	80	37	42	65
245728	60	55	80	41	46	70
245737	60	55	80	37	42	65
245741	60	55	80	37	42	65
245749	60	55	80	38	43	66
245754	60	55	80	36	41	64
245757	60	55	80	42	47	72
245758	60	55	80	39	44	67
245759	60	55	80	38	43	65
245760	60	55	80	37	42	64
245770	60	55	80	38	43	65
245772	60	55	80	38	43	66
245780	60	55	80	36	41	65
245788	60	55	80	38	43	65
245790	60	55	80	37	42	65
245794	60	55	80	38	43	66
245795	60	55	80	42	47	71
245806	60	55	80	37	42	65
245808	60	55	80	37	42	66
245820	60	55	80	41	46	70
245821	60	55	80	37	42	65
245825	60	55	80	38	43	66
245827	60	55	80	38	43	65
245831	60	55	80	35	40	64
245833	60	55	80	38	43	66
245836	60	55	80	36	41	64
245840	60	55	80	37	42	65
245848	60	55	80	41	46	70
245851	60	55	80	38	43	65
245852	60	55	80	36	41	63
245856	60	55	80	39	44	67
245858	60	55	80	37	43	65
245861	60	55	80	38	43	66
245865	60	55	80	39	45	68
245866	60	55	80	38	43	65
245870	60	55	80	39	44	66
245871	60	55	80	39	44	68
245877	60	55	80	41	46	69
245878	60	55	80	37	42	65
245882	60	55	80	38	43	66
245885	60	55	80	42	47	71
245886	60	55	80	38	44	66
245887	60	55	80	39	44	68
245889	60	55	80	38	43	65
245891	60	55	80	38	43	67
245895	60	55	80	41	46	70
245897	60	55	80	38	43	67
245899	60	55	80	38	43	67
245901	60	55	80	39	44	69
245902	60	55	80	39	45	68
245903	60	55	80	39	44	67
245906	60	55	80	39	44	67
245910	60	55	80	41	46	69

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245912	60	55	80	40	45	70
245914	60	55	80	41	46	70
245915	60	55	80	39	44	67
245917	60	55	80	41	46	70
245918	60	55	80	39	44	67
245923	60	55	80	39	44	68
245924	60	55	80	43	48	72
245925	60	55	80	37	42	66
245926	60	55	80	40	45	69
245933	60	55	80	40	45	70
245934	60	55	80	41	46	70
245935	60	55	80	40	45	67
245936	60	55	80	37	43	65
245940	60	55	80	40	46	69
245942	60	55	80	40	46	70
245945	60	55	80	41	46	68
245950	60	55	80	38	43	66
245951	60	55	80	40	45	69
245953	60	55	80	40	45	68
245954	60	55	80	42	48	71
245956	60	55	80	39	44	69
245958	60	55	80	40	45	68
245959	60	55	80	40	46	69
245965	60	55	80	41	46	70
245966	60	55	80	39	44	67
245972	60	55	80	40	45	69
245974	60	55	80	43	48	72
245977	60	55	80	38	43	66
245978	60	55	80	40	45	69
245979	60	55	80	40	45	68
245980	60	55	80	41	46	69
245981	60	55	80	39	44	67
245982	60	55	80	39	44	67
245992	60	55	80	40	45	69
245993	60	55	80	41	46	70
245994	60	55	80	38	43	65
245995	60	55	80	40	45	69
245997	60	55	80	40	45	67
245998	60	55	80	39	44	68
246000	60	55	80	44	50	74
246001	60	55	80	43	48	72
246004	60	55	80	39	45	68
246006	60	55	80	37	42	64
246008	60	55	80	40	45	68
246010	60	55	80	40	45	68
246012	60	55	80	43	48	72
246014	60	55	80	39	44	68
246015	60	55	80	38	44	67
246016	60	55	80	39	44	67
246017	60	55	80	44	49	74
246020	60	55	80	40	46	69
246021	60	55	80	39	44	67
246022	60	55	80	39	44	68
246023	60	55	80	38	43	67
246024	60	55	80	39	44	67
246025	60	55	80	41	46	69
246028	60	55	80	40	45	68
246030	60	55	80	43	48	72
246033	60	55	80	39	44	67
246035	60	55	80	41	47	71
246036	60	55	80	37	43	67
246037	60	55	80	40	46	70
246038	60	55	80	39	44	67

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246041	60	55	80	40	45	67
246043	60	55	80	49	55	79
246045	60	55	80	43	49	72
246046	60	55	80	39	44	68
246047	60	55	80	40	45	68
246048	60	55	80	40	45	68
246051	60	55	80	43	48	72
246052	60	55	80	40	45	69
246054	60	55	80	52	**57**	**81**
246057	60	55	80	40	45	68
246059	60	55	80	40	45	68
246061	60	55	80	40	45	68
246064	60	55	80	36	42	66
246066	60	55	80	40	45	68
246067	60	55	80	41	46	70
246069	60	55	80	42	47	71
246071	60	55	80	44	49	72
246072	60	55	80	42	47	71
246073	60	55	80	39	45	69
246074	60	55	80	40	45	69
246077	60	55	80	41	46	69
246081	60	55	80	42	47	70
246083	60	55	80	42	47	71
246086	60	55	80	41	47	71
246090	60	55	80	41	46	70
246092	60	55	80	41	46	70
246096	60	55	80	39	44	69
246098	60	55	80	40	45	70
246100	60	55	80	40	45	69
246102	60	55	80	42	47	71
246103	60	55	80	41	46	70
246104	60	55	80	41	46	69
246106	60	55	80	42	48	70
246108	60	55	80	41	47	71
246109	60	55	80	42	47	71
246110	60	55	80	42	47	70
246112	60	55	80	40	45	68
246113	60	55	80	47	53	77
246114	60	55	80	39	44	68
246119	60	55	80	42	47	71
246123	60	55	80	40	45	69
246124	60	55	80	40	45	68
246126	60	55	80	41	47	71
246127	60	55	80	41	46	70
246128	60	55	80	42	47	69
246129	60	55	80	41	46	69
246130	60	55	80	42	47	72
246133	60	55	80	43	49	72
246134	60	55	80	41	46	70
246137	60	55	80	42	47	70
246140	60	55	80	41	47	71
246142	60	55	80	42	47	71
246143	60	55	80	41	46	69
246147	60	55	80	43	48	72
246148	60	55	80	41	47	69
246149	60	55	80	46	51	75
246151	60	55	80	41	46	70
246152	60	55	80	42	47	70
246153	60	55	80	40	45	68
246154	60	55	80	43	48	70
246155	60	55	80	43	48	70
246157	60	55	80	42	47	71
246159	60	55	80	43	48	71

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246162	60	55	80	40	45	68
246163	60	55	80	43	48	70
246166	60	55	80	44	49	72
246168	60	55	80	43	48	71
246169	60	55	80	45	50	74
246170	60	55	80	46	52	76
246175	60	55	80	43	48	72
246177	60	55	80	40	45	68
246187	60	55	80	50	55	79
246188	60	55	80	43	49	71
246189	60	55	80	39	44	67
246196	60	55	80	42	47	71
246197	60	55	80	42	48	71
246200	60	55	80	43	48	72
246203	60	55	80	43	48	72
246206	60	55	80	42	47	71
246207	60	55	80	43	48	72
246210	60	55	80	44	49	73
246211	60	55	80	42	48	71
246212	60	55	80	42	47	70
246221	60	55	80	51	**56**	**81**
246224	60	55	80	46	51	75
246228	60	55	80	47	52	76
246230	60	55	80	51	**56**	**81**
246232	60	55	80	46	51	75
246235	60	55	80	43	48	73
246237	60	55	80	41	46	69
246238	60	55	80	46	51	76
246241	60	55	80	47	52	77
246242	60	55	80	46	51	75
246243	60	55	80	43	49	72
246249	60	55	80	47	52	76
246251	60	55	80	46	51	75
246259	60	55	80	48	53	77
246270	60	55	80	44	49	72
246271	60	55	80	50	55	79
246272	60	55	80	42	47	71
246302	60	55	80	44	49	72
246310	60	55	80	43	48	72
246319	60	55	80	45	50	73
246320	60	55	80	50	**56**	80
246321	60	55	80	44	49	73
246365	60	55	80	46	51	76
246369	60	55	80	45	50	75
246374	60	55	80	45	51	75
246387	60	55	80	47	53	77
246399	60	55	80	47	52	76
246420	60	55	80	48	53	77
246433	60	55	80	49	54	78
246439	60	55	80	48	53	77
246451	60	55	80	47	52	76
246457	60	55	80	47	52	76
246464	60	55	80	46	51	75
246470	60	55	80	52	**57**	**82**
246472	60	55	80	44	49	72
246532	60	55	80	54	**59**	**84**
246536	60	55	80	53	**58**	**82**
246552	60	55	80	42	47	71
246557	60	55	80	44	49	71
246567	60	55	80	47	53	76
246569	60	55	80	47	52	75
246570	60	55	80	44	49	72
246578	60	55	80	46	52	75

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246587	60	55	80	46	51	75
246592	60	55	80	47	52	76
246593	60	55	80	46	51	75
246629	60	55	80	44	49	72
246673	60	55	80	56	**61**	**88**
246693	60	55	80	46	51	76
246698	60	55	80	43	48	73
246745	60	55	80	39	44	69
246747	60	55	80	35	40	65
246754	60	55	80	38	44	68
324718	60	55	80	37	42	67
324720	60	55	80	41	46	71
324729	60	55	80	46	52	74
324734	60	55	80	50	55	79
324738	60	55	80	51	**56**	**81**
324740	60	55	80	39	45	68
324792	60	55	80	37	41	66
324811	60	55	80	43	48	72
324819	60	55	80	44	49	73
324822	60	55	80	45	50	74
325117	60	55	80	42	48	71
325145	60	55	80	42	47	72
325292	60	55	80	42	46	72
325416	60	55	80	35	40	65
325550	60	55	80	36	41	65
325560	60	55	80	36	41	64
325572	60	55	80	34	38	62
326528	60	55	80	35	40	64
331634	60	55	80	**61**	**66**	**91**
331635	60	55	80	40	44	69
331692	60	55	80	42	47	70
331696	60	55	80	38	44	66
331698	60	55	80	48	53	77
331699	60	55	80	41	46	70
331700	60	55	80	42	47	72
331702	60	55	80	29	34	58
331704	60	55	80	38	43	67
331710	60	55	80	51	**56**	80
331715	60	55	80	36	41	64
331718	60	55	80	50	54	79
331722	60	55	80	40	45	69
331723	60	55	80	34	39	64
331724	60	55	80	39	44	69
331728	60	55	80	52	**56**	**81**
331734	60	55	80	42	48	70
331735	60	55	80	48	53	78
331738	60	55	80	47	53	76
331739	60	55	80	39	44	67
331740	60	55	80	27	32	56
331746	60	55	80	44	49	73
331749	60	55	80	50	55	80
331751	60	55	80	38	43	67
331759	60	55	80	49	53	77
331764	60	55	80	48	52	77
331766	60	55	80	45	49	74
331771	60	55	80	47	53	75
331774	60	55	80	50	55	80
331786	60	55	80	45	50	74
331788	60	55	80	35	40	65
331791	60	55	80	46	51	75
331798	60	55	80	47	52	75
331804	60	55	80	36	41	65
331805	60	55	80	43	48	73

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
331814	60	55	80	42	46	69
331822	60	55	80	48	53	77
331823	60	55	80	46	51	75
331830	60	55	80	49	54	78
331833	60	55	80	42	47	72
331834	60	55	80	50	55	79
331835	60	55	80	34	39	61
331839	60	55	80	47	52	76
331844	60	55	80	47	51	76
331845	60	55	80	44	48	72
331847	60	55	80	43	48	72
331849	60	55	80	42	46	71
331850	60	55	80	42	47	71
331851	60	55	80	56	**61**	**86**
331852	60	55	80	53	**58**	**83**
331855	60	55	80	50	54	79
331859	60	55	80	50	55	80
331860	60	55	80	54	**59**	**84**
331869	60	55	80	42	47	71
331905	60	55	80	35	39	64
331915	60	55	80	43	48	73
331921	60	55	80	39	44	68
331922	60	55	80	39	44	68
331924	60	55	80	49	53	78
331932	60	55	80	44	49	73
331940	60	55	80	35	40	64
331960	60	55	80	41	46	71
331977	60	55	80	50	55	80
331978	60	55	80	46	50	74
331980	60	55	80	44	48	71
331995	60	55	80	42	47	69
332012	60	55	80	38	42	65
332019	60	55	80	43	48	73
332023	60	55	80	49	55	80
332028	60	55	80	44	49	72
332038	60	55	80	51	**56**	**81**
332039	60	55	80	37	42	67
332044	60	55	80	49	53	77
332047	60	55	80	52	**57**	**82**
332056	60	55	80	49	53	78
332060	60	55	80	38	42	66
332063	60	55	80	58	**62**	**88**
332070	60	55	80	45	50	74
332072	60	55	80	43	48	71
332076	60	55	80	46	51	74
332090	60	55	80	48	53	77
332156	60	55	80	39	44	68
332265	60	55	80	48	52	78
332313	60	55	80	36	40	64
332427	60	55	80	41	45	70
332428	60	55	80	41	46	69
332429	60	55	80	45	49	72
332430	60	55	80	37	42	67
332431	60	55	80	40	44	68
332432	60	55	80	44	48	72
332434	60	55	80	47	52	77
332435	60	55	80	40	45	69
332437	60	55	80	45	50	74
332438	60	55	80	41	46	69
332439	60	55	80	43	48	72
332440	60	55	80	42	46	70
332441	60	55	80	42	47	69
332453	60	55	80	43	48	72

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332455	60	55	80	42	47	71
332459	60	55	80	48	52	77
332461	60	55	80	44	49	73
332462	60	55	80	40	45	68
332463	60	55	80	42	47	69
332464	60	55	80	44	50	73
332465	60	55	80	44	49	73
332467	60	55	80	53	**58**	**83**
332468	60	55	80	38	43	66
332470	60	55	80	39	44	68
332471	60	55	80	51	55	80
332472	60	55	80	42	47	72
332475	60	55	80	41	45	69
332476	60	55	80	40	45	68
332477	60	55	80	40	45	68
332478	60	55	80	41	46	69
332480	60	55	80	40	46	70
332484	60	55	80	40	45	68
332485	60	55	80	37	42	67
332498	60	55	80	40	45	68
332612	60	55	80	38	43	67
332614	60	55	80	39	44	68
332615	60	55	80	52	**57**	**81**
332616	60	55	80	47	52	76
332618	60	55	80	39	44	66
332622	60	55	80	43	48	71
332623	60	55	80	39	44	66
332624	60	55	80	41	46	69
332625	60	55	80	40	46	69
332626	60	55	80	40	46	69
332627	60	55	80	39	44	67
332628	60	55	80	41	46	69
332630	60	55	80	42	47	71
332633	60	55	80	40	45	68
332634	60	55	80	43	48	71
332635	60	55	80	41	46	69
332636	60	55	80	41	46	69
332637	60	55	80	42	47	70
332638	60	55	80	40	45	67
332639	60	55	80	40	45	69
332640	60	55	80	39	45	67
332641	60	55	80	41	46	70
332646	60	55	80	38	43	67
332648	60	55	80	40	45	68
332650	60	55	80	38	44	67
332651	60	55	80	40	45	68
332652	60	55	80	42	47	70
332655	60	55	80	39	44	67
332656	60	55	80	40	45	68
332657	60	55	80	40	45	69
332663	60	55	80	41	46	70
332664	60	55	80	39	44	68
332665	60	55	80	38	43	64
332666	60	55	80	40	45	68
332667	60	55	80	40	45	69
332668	60	55	80	41	46	69
332669	60	55	80	39	45	68
332671	60	55	80	38	43	67
332672	60	55	80	42	47	70
332673	60	55	80	40	45	67
332674	60	55	80	39	44	65
332676	60	55	80	42	47	71
332677	60	55	80	38	44	67

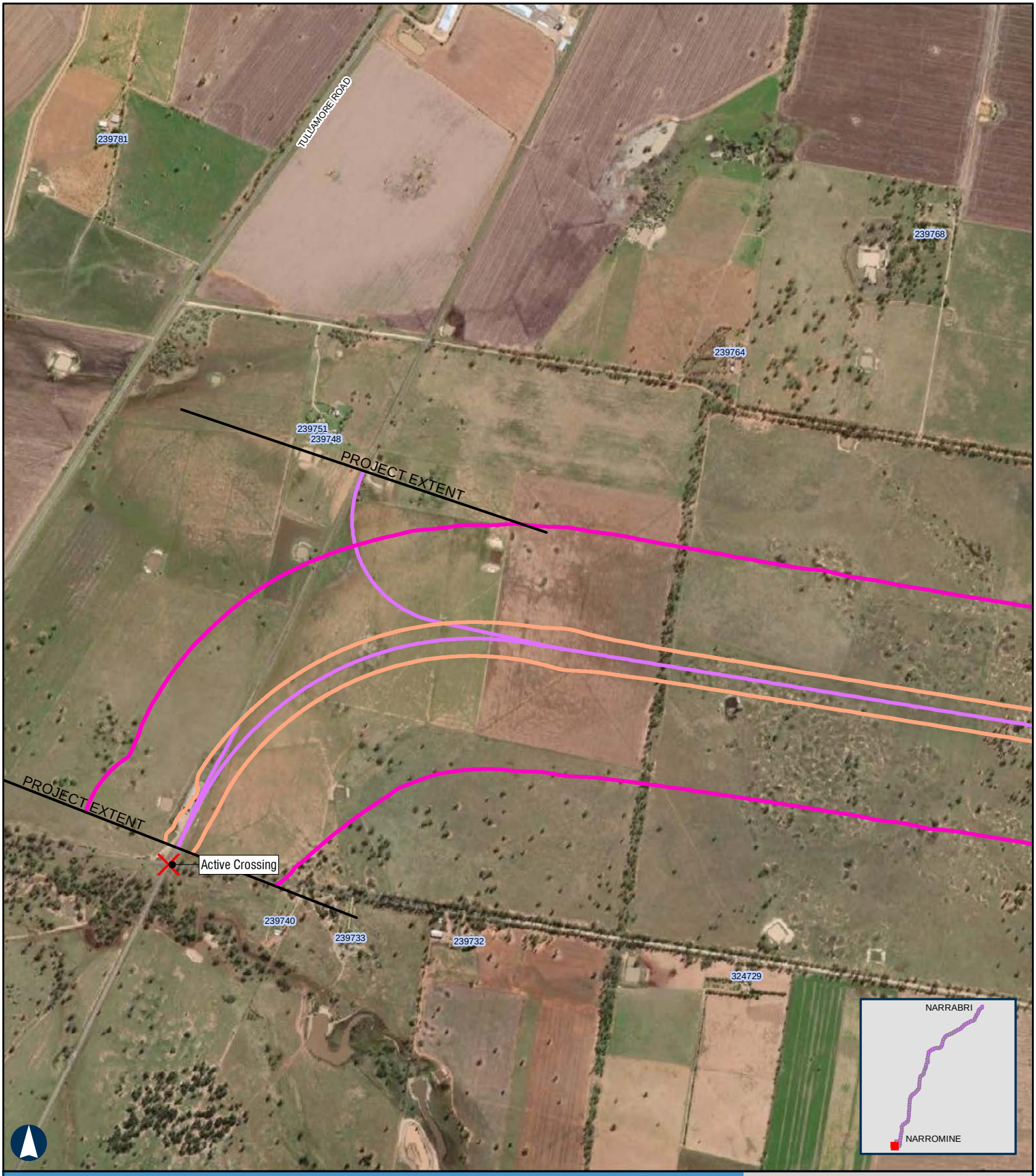
Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332678	60	55	80	39	45	66
332681	60	55	80	40	46	69
332682	60	55	80	39	44	67
332683	60	55	80	41	46	69
332684	60	55	80	37	42	64
332688	60	55	80	40	45	68
332689	60	55	80	39	44	67
332696	60	55	80	42	47	71
332697	60	55	80	36	41	64
332698	60	55	80	40	45	68
332699	60	55	80	37	42	64
332706	60	55	80	41	46	69
332707	60	55	80	40	45	69
332712	60	55	80	42	47	70
332713	60	55	80	41	46	69
332714	60	55	80	41	47	70
332715	60	55	80	39	44	67
332719	60	55	80	42	47	70
332720	60	55	80	38	43	65
332721	60	55	80	39	44	67
332722	60	55	80	40	45	68
332723	60	55	80	39	44	67
332724	60	55	80	39	45	67
332731	60	55	80	36	41	65
332734	60	55	80	37	42	65
332735	60	55	80	38	43	65
332736	60	55	80	39	44	67
332739	60	55	80	47	52	76
332741	60	55	80	44	49	72
332742	60	55	80	39	44	66
332743	60	55	80	40	46	69
332744	60	55	80	38	43	66
332745	60	55	80	40	45	68
332746	60	55	80	40	45	68
332749	60	55	80	39	44	68
332754	60	55	80	44	49	74
332760	60	55	80	42	47	70
332763	60	55	80	39	44	68
332764	60	55	80	39	44	68
332765	60	55	80	38	43	66
332770	60	55	80	40	45	69
332773	60	55	80	42	47	70
332774	60	55	80	42	47	69
332775	60	55	80	40	45	69
332777	60	55	80	36	41	66
332780	60	55	80	48	53	77
332781	60	55	80	39	44	65
332783	60	55	80	45	50	74
332784	60	55	80	39	44	67
332786	60	55	80	47	52	76
332787	60	55	80	41	46	69
332788	60	55	80	40	46	69
332791	60	55	80	41	46	70
332794	60	55	80	40	45	67
332796	60	55	80	40	45	68
332797	60	55	80	39	45	68
332799	60	55	80	41	46	69
332800	60	55	80	41	46	70
332801	60	55	80	40	45	68
332802	60	55	80	41	46	69
332803	60	55	80	40	45	68
332804	60	55	80	41	46	69
332806	60	55	80	43	48	71

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332810	60	55	80	39	44	67
332811	60	55	80	39	44	67
332812	60	55	80	39	44	67
332813	60	55	80	39	44	68
332817	60	55	80	43	48	71
332822	60	55	80	42	47	71
332824	60	55	80	44	49	73
332825	60	55	80	41	46	70
332829	60	55	80	42	47	70
332830	60	55	80	38	44	66
332831	60	55	80	46	51	75
332833	60	55	80	40	45	67
332835	60	55	80	54	**59**	**83**
332839	60	55	80	39	44	66
332841	60	55	80	39	44	67
332843	60	55	80	38	43	67
332844	60	55	80	48	53	77
332845	60	55	80	49	54	78
332847	60	55	80	41	46	69
332849	60	55	80	41	46	69
332850	60	55	80	39	44	67
332853	60	55	80	36	41	66
332857	60	55	80	39	44	67
332858	60	55	80	37	42	66
332859	60	55	80	38	43	66
332860	60	55	80	37	42	66
332861	60	55	80	39	44	67
332863	60	55	80	41	46	69
332864	60	55	80	41	46	69
332865	60	55	80	41	46	68
332866	60	55	80	48	54	77
332867	60	55	80	39	44	66
332868	60	55	80	40	45	67
332870	60	55	80	41	46	70
332879	60	55	80	41	46	68
332880	60	55	80	41	46	69
332881	60	55	80	41	47	70
332882	60	55	80	42	47	70
332883	60	55	80	40	46	69
332884	60	55	80	44	49	73
332885	60	55	80	44	50	73
332887	60	55	80	39	44	68
332888	60	55	80	39	44	68
332889	60	55	80	39	44	68
332898	60	55	80	40	46	69
332899	60	55	80	40	45	69
332900	60	55	80	40	45	68
332901	60	55	80	40	45	68
332902	60	55	80	40	45	68
332903	60	55	80	43	48	72
332905	60	55	80	48	53	77
332906	60	55	80	47	52	77
332909	60	55	80	40	45	69
332914	60	55	80	40	45	68
332915	60	55	80	36	41	64
332916	60	55	80	38	44	67
332917	60	55	80	41	46	68
332918	60	55	80	41	46	70
332919	60	55	80	40	46	69
332920	60	55	80	37	42	66
332922	60	55	80	48	54	77
332924	60	55	80	47	52	77
332931	60	55	80	39	44	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332932	60	55	80	42	47	70
332934	60	55	80	38	43	66
332936	60	55	80	36	42	64
332937	60	55	80	38	44	66
332938	60	55	80	42	47	70
332940	60	55	80	42	48	71
332941	60	55	80	42	47	69
332942	60	55	80	44	49	73
332944	60	55	80	41	46	70
332945	60	55	80	44	49	72
332946	60	55	80	41	46	70
332947	60	55	80	40	45	67
332948	60	55	80	39	45	67
332949	60	55	80	38	43	65
332951	60	55	80	41	46	69
332953	60	55	80	41	46	69
332954	60	55	80	40	45	69
332955	60	55	80	40	45	69
332959	60	55	80	46	51	74
332964	60	55	80	45	51	73
332965	60	55	80	45	50	72
332968	60	55	80	38	43	67
332969	60	55	80	41	46	71
332970	60	55	80	40	45	69
332971	60	55	80	38	43	65
332972	60	55	80	37	42	64
332973	60	55	80	42	48	71
332974	60	55	80	42	47	70
332975	60	55	80	40	45	67
332976	60	55	80	38	43	66
332977	60	55	80	41	46	70
332979	60	55	80	43	48	71
332981	60	55	80	41	46	69
332982	60	55	80	42	47	70
332985	60	55	80	42	47	70
332988	60	55	80	39	44	68
332993	60	55	80	39	44	67
332996	60	55	80	41	46	68
332997	60	55	80	47	52	76
332999	60	55	80	40	45	69
333001	60	55	80	41	46	70
333002	60	55	80	39	44	67
333004	60	55	80	42	47	71
333006	60	55	80	41	46	68
333008	60	55	80	41	46	69
333009	60	55	80	41	46	69
333010	60	55	80	42	47	71
333011	60	55	80	38	43	66
333012	60	55	80	38	43	66
333013	60	55	80	38	43	66
333014	60	55	80	40	45	68
333015	60	55	80	38	44	67
333016	60	55	80	37	42	66
333018	60	55	80	49	54	78
333019	60	55	80	40	45	68
333020	60	55	80	44	49	72
333029	60	55	80	39	44	67
333031	60	55	80	48	53	77
333032	60	55	80	39	44	67
333034	60	55	80	42	48	71
333036	60	55	80	39	44	67
333038	60	55	80	47	52	75
333039	60	55	80	40	45	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
333041	60	55	80	42	47	71
333042	60	55	80	41	46	70
333044	60	55	80	37	42	65
333051	60	55	80	49	54	78
333052	60	55	80	40	46	69
333058	60	55	80	38	43	65
333060	60	55	80	38	43	66
333062	60	55	80	39	44	68
333063	60	55	80	38	43	66
333068	60	55	80	39	44	67
333071	60	55	80	40	45	68
333076	60	55	80	40	45	68
333077	60	55	80	40	45	67
333079	60	55	80	41	46	70
333093	60	55	80	39	44	68
333105	60	55	80	40	45	68
333109	60	55	80	40	45	67
333111	60	55	80	39	44	66
333119	60	55	80	41	47	69
333120	60	55	80	41	46	70
333146	60	55	80	40	45	68
333152	60	55	80	43	48	73
333157	60	55	80	40	45	68
333159	60	55	80	41	46	69
333179	60	55	80	41	46	68
333185	60	55	80	39	44	67
333188	60	55	80	39	44	67
333191	60	55	80	39	44	67
333192	60	55	80	40	45	68
333197	60	55	80	39	44	66
333201	60	55	80	40	46	68
333202	60	55	80	43	48	71
333204	60	55	80	40	45	68
333216	60	55	80	39	44	67
333222	60	55	80	38	43	68
333240	60	55	80	39	44	66
333248	60	55	80	39	44	65
333255	60	55	80	38	43	66
333261	60	55	80	41	46	69
333263	60	55	80	44	49	72
333271	60	55	80	45	50	73
333276	60	55	80	41	46	69
333277	60	55	80	43	48	70
333301	60	55	80	42	47	71
333304	60	55	80	41	47	69
333316	60	55	80	38	43	66
333318	60	55	80	42	47	71
333323	60	55	80	40	45	68
333329	60	55	80	39	44	67
333333	60	55	80	41	46	69
333348	60	55	80	40	45	68
333349	60	55	80	42	47	70
333355	60	55	80	39	44	66
333367	60	55	80	41	46	69
333368	60	55	80	40	45	69
333392	60	55	80	39	45	67
333398	60	55	80	43	48	71
333399	60	55	80	40	45	69
333400	60	55	80	46	51	74
333406	60	55	80	40	45	68
333410	60	55	80	46	52	75
333412	60	55	80	41	46	69
333415	60	55	80	39	44	67

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
333416	60	55	80	39	44	67
333417	60	55	80	39	45	68
333431	60	55	80	43	48	72
333432	60	55	80	34	39	64
333433	60	55	80	38	43	65
333434	60	55	80	38	43	66
333435	60	55	80	37	42	65
333436	60	55	80	35	40	63
333437	60	55	80	37	42	64
333451	60	55	80	40	45	67
333454	60	55	80	43	48	71
333458	60	55	80	42	47	70
333465	60	55	80	41	46	69
333470	60	55	80	41	46	71
333474	60	55	80	40	45	68
333627	60	55	80	43	48	72
333651	60	55	80	39	44	66



NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 1 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

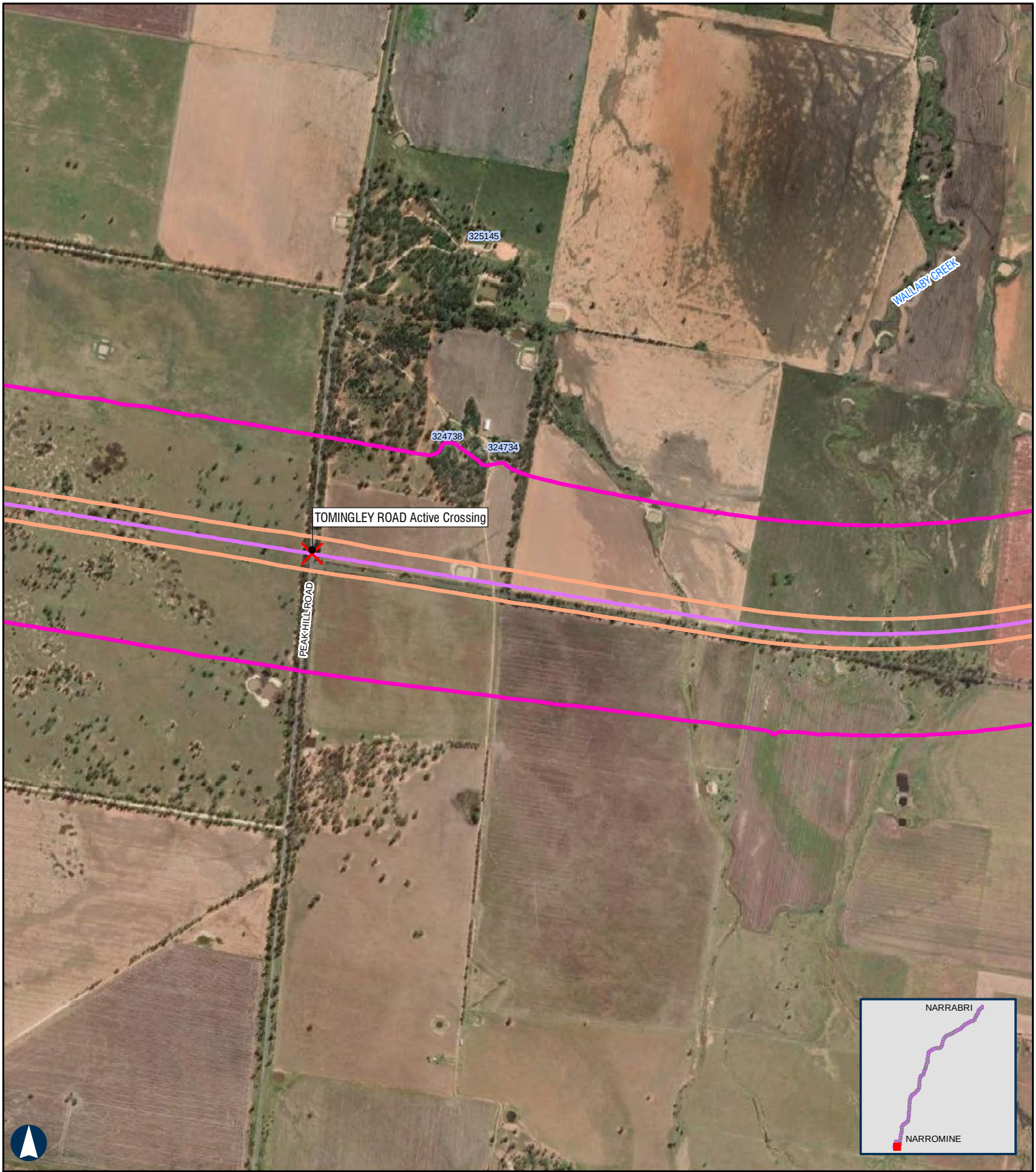
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

ARTC InlandRail

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Year 2026 Daytime Rail Noise Levels

500 m

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Author: JG

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Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 3 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

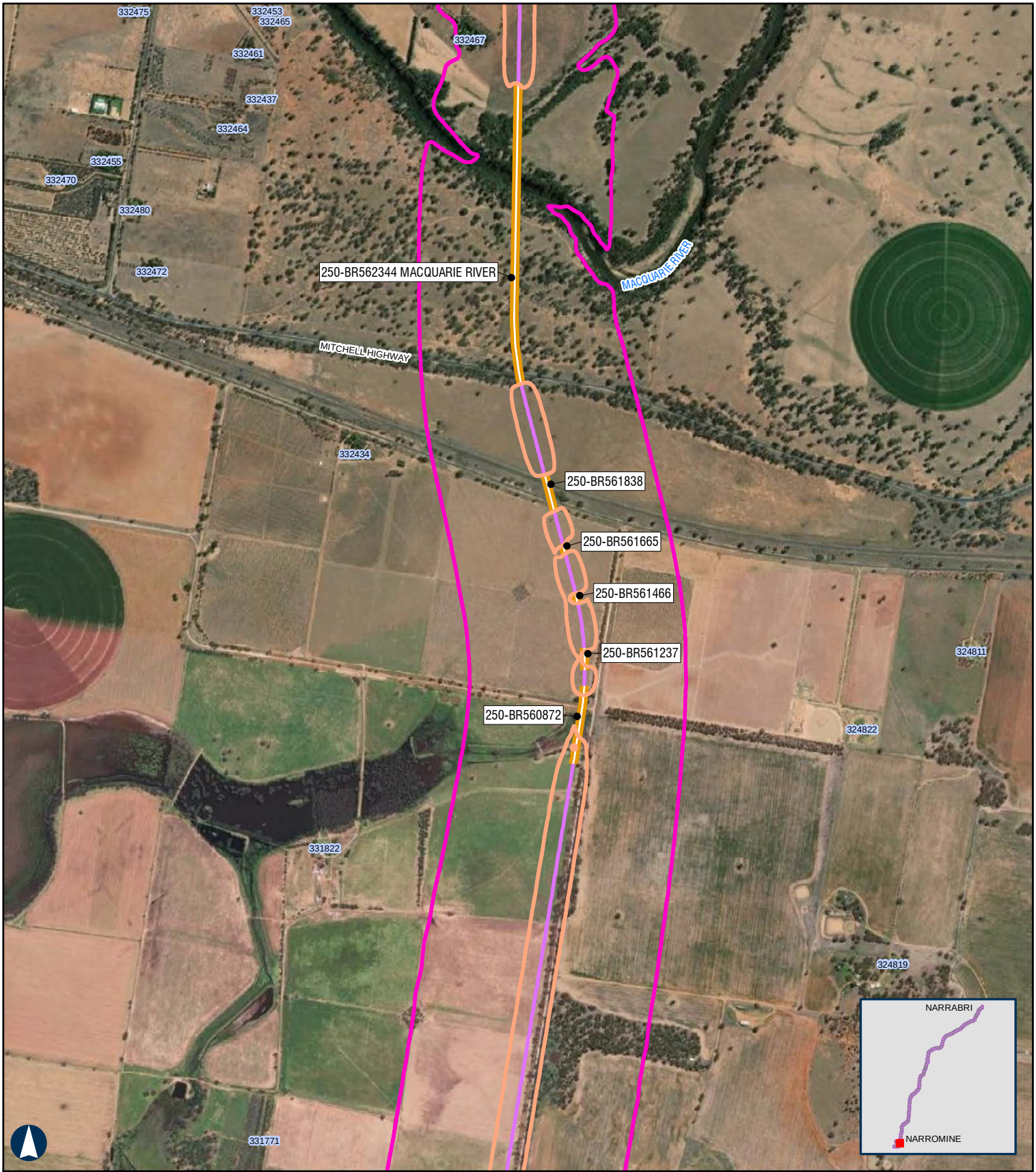
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 4 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

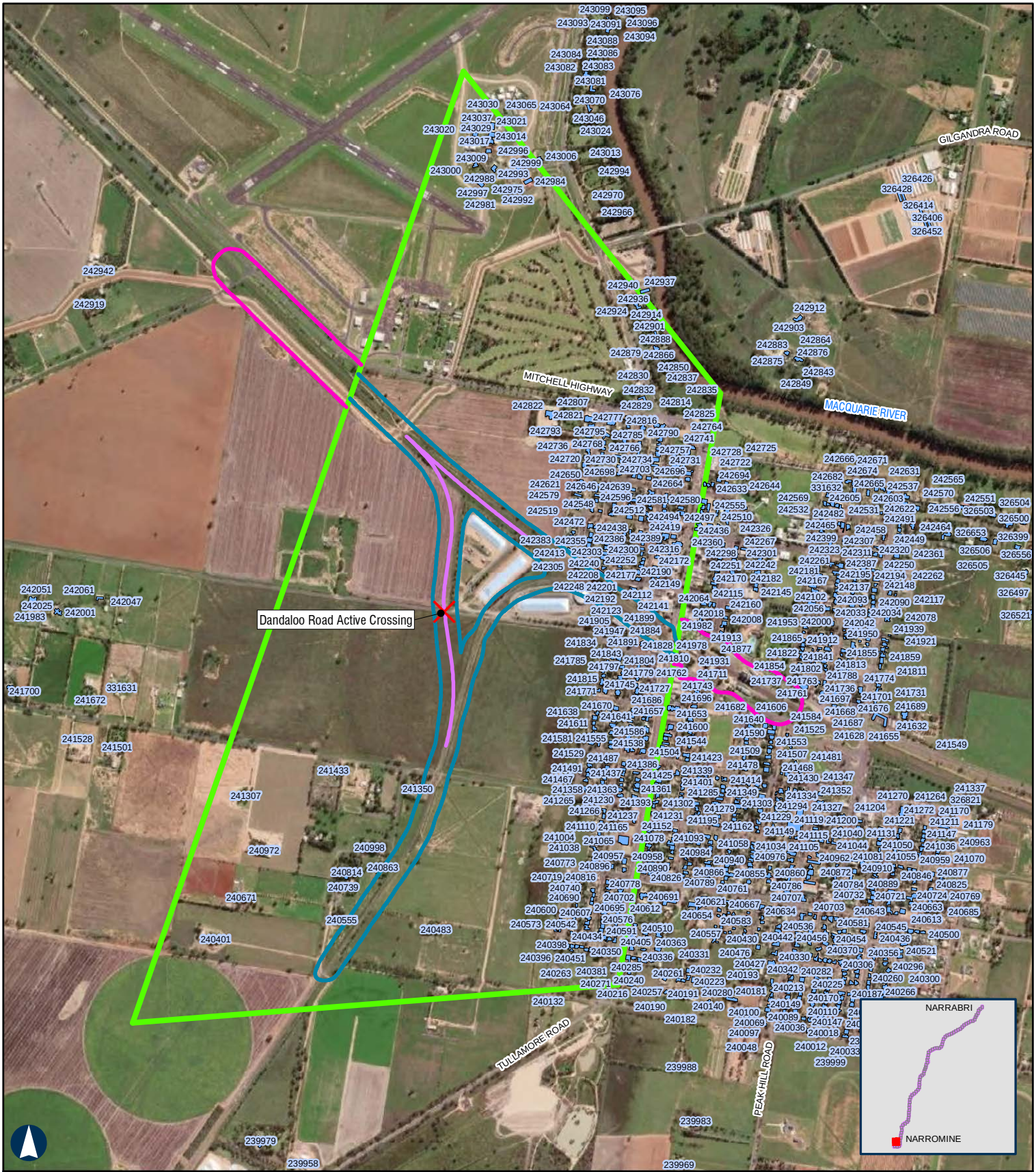
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 5 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

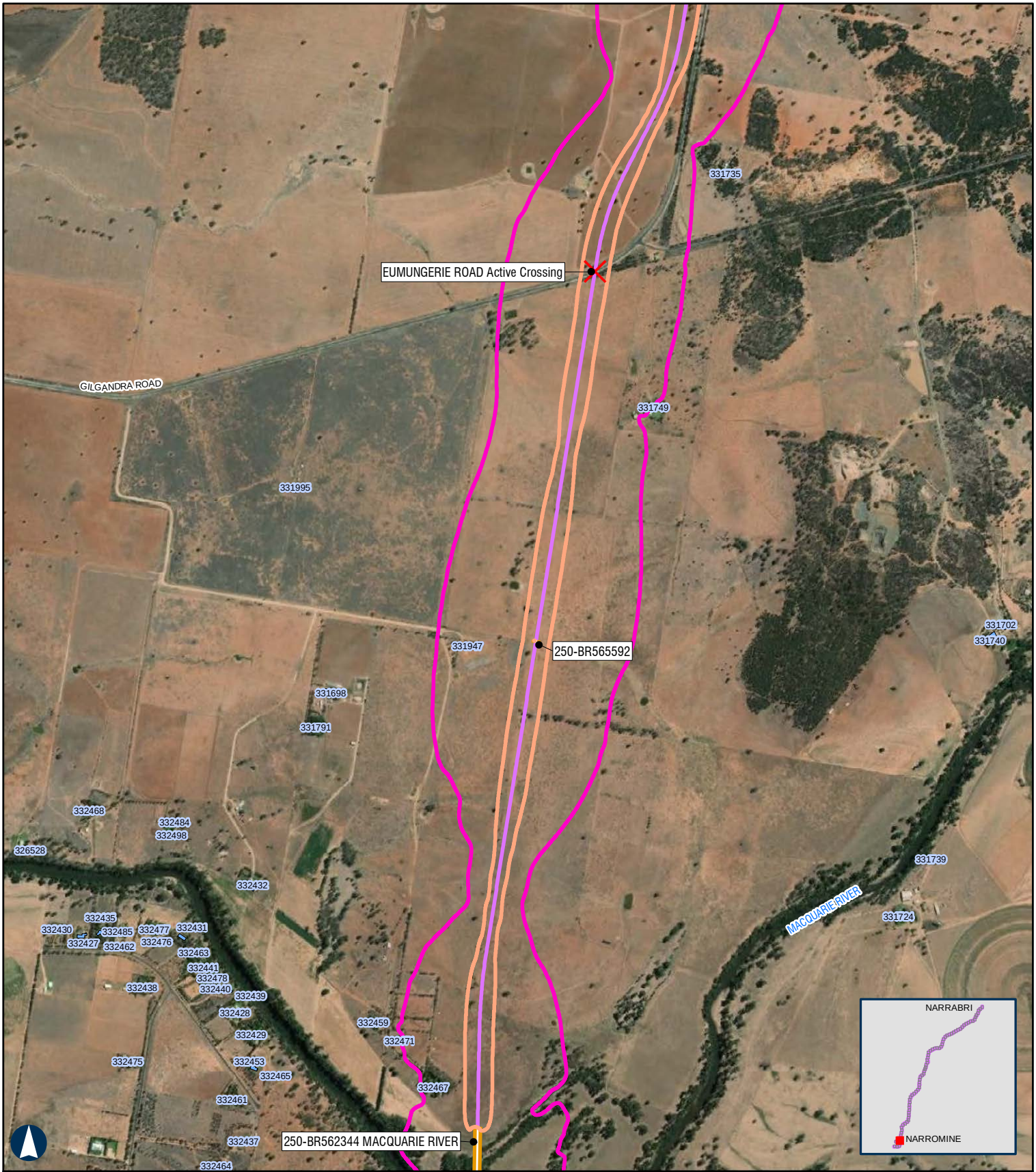
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 6 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

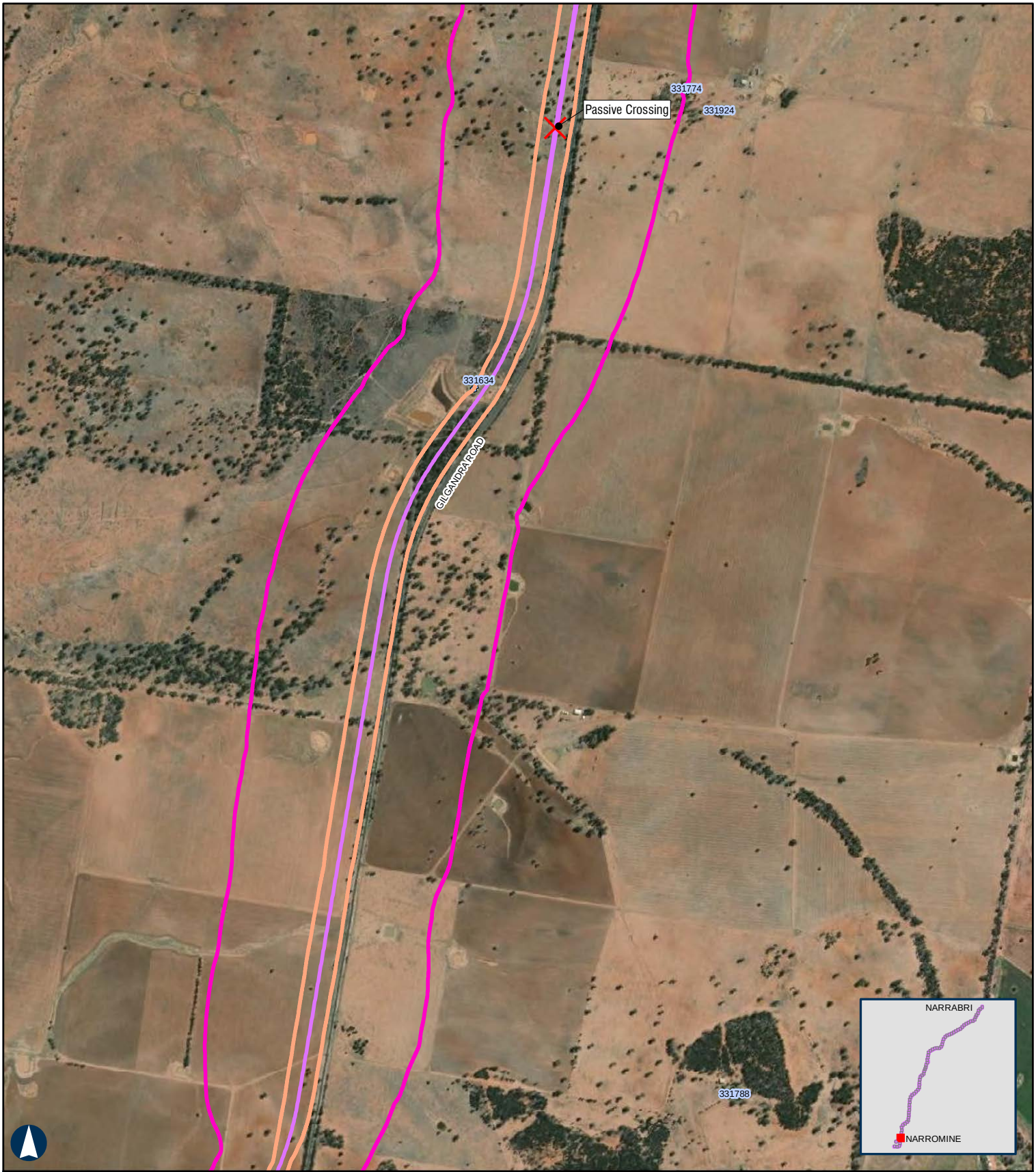
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 80dBA new rail corridor
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Year 2026 Daytime Rail Noise Levels

500 m

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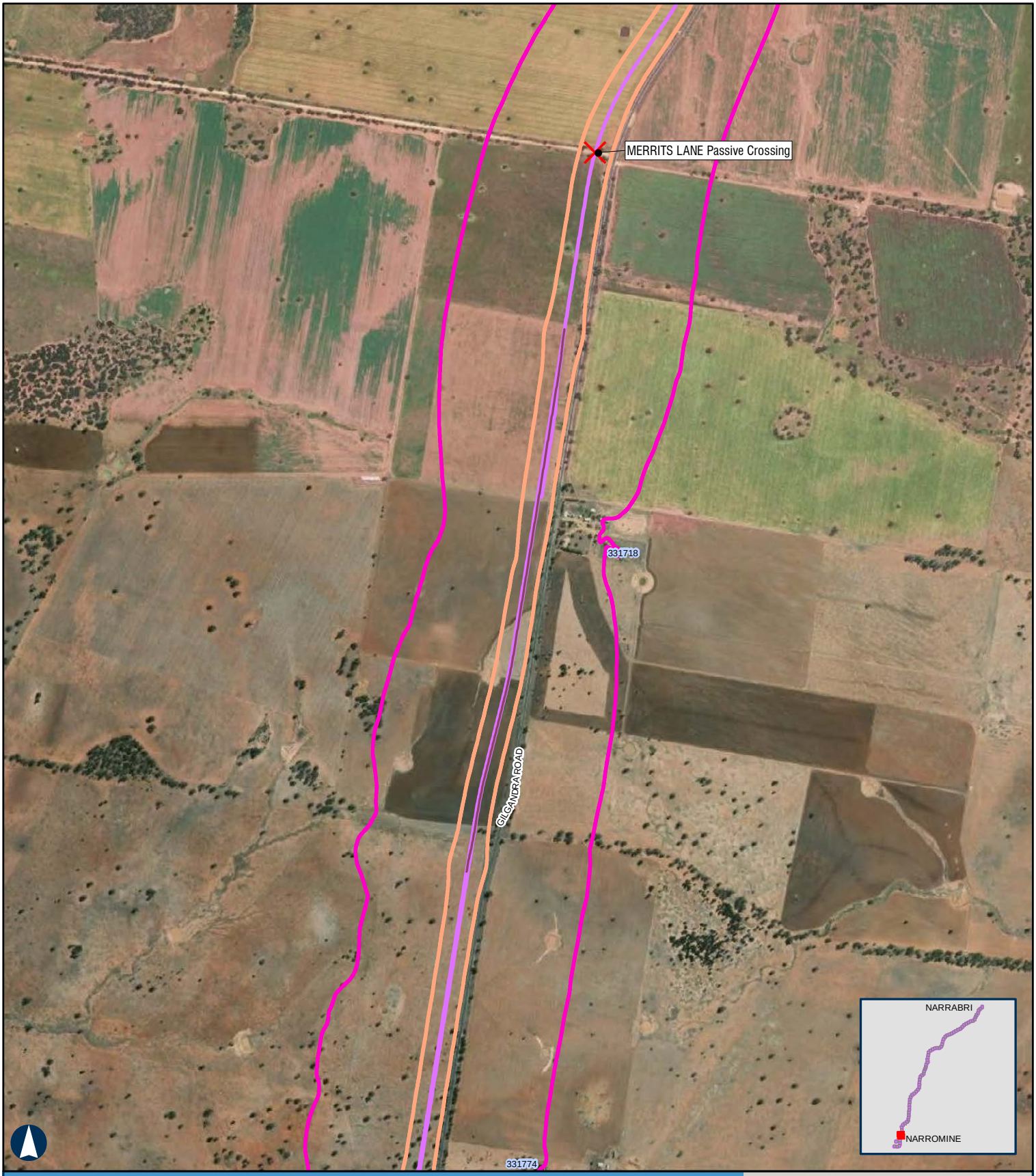
Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 8 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 01-Feb-2022
Author: JG

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- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

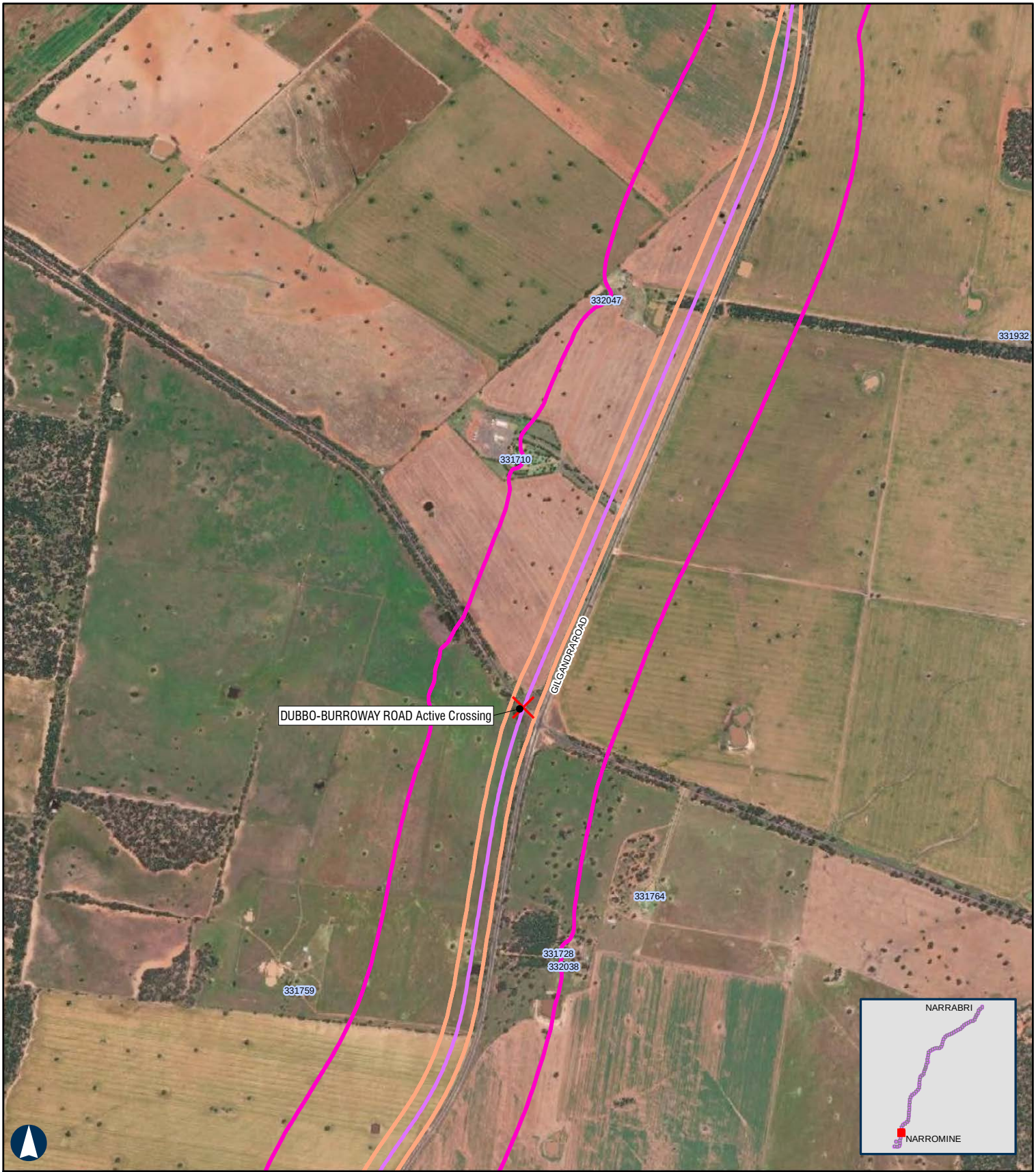
Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 9 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 01-Feb-2022
Author: JG

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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

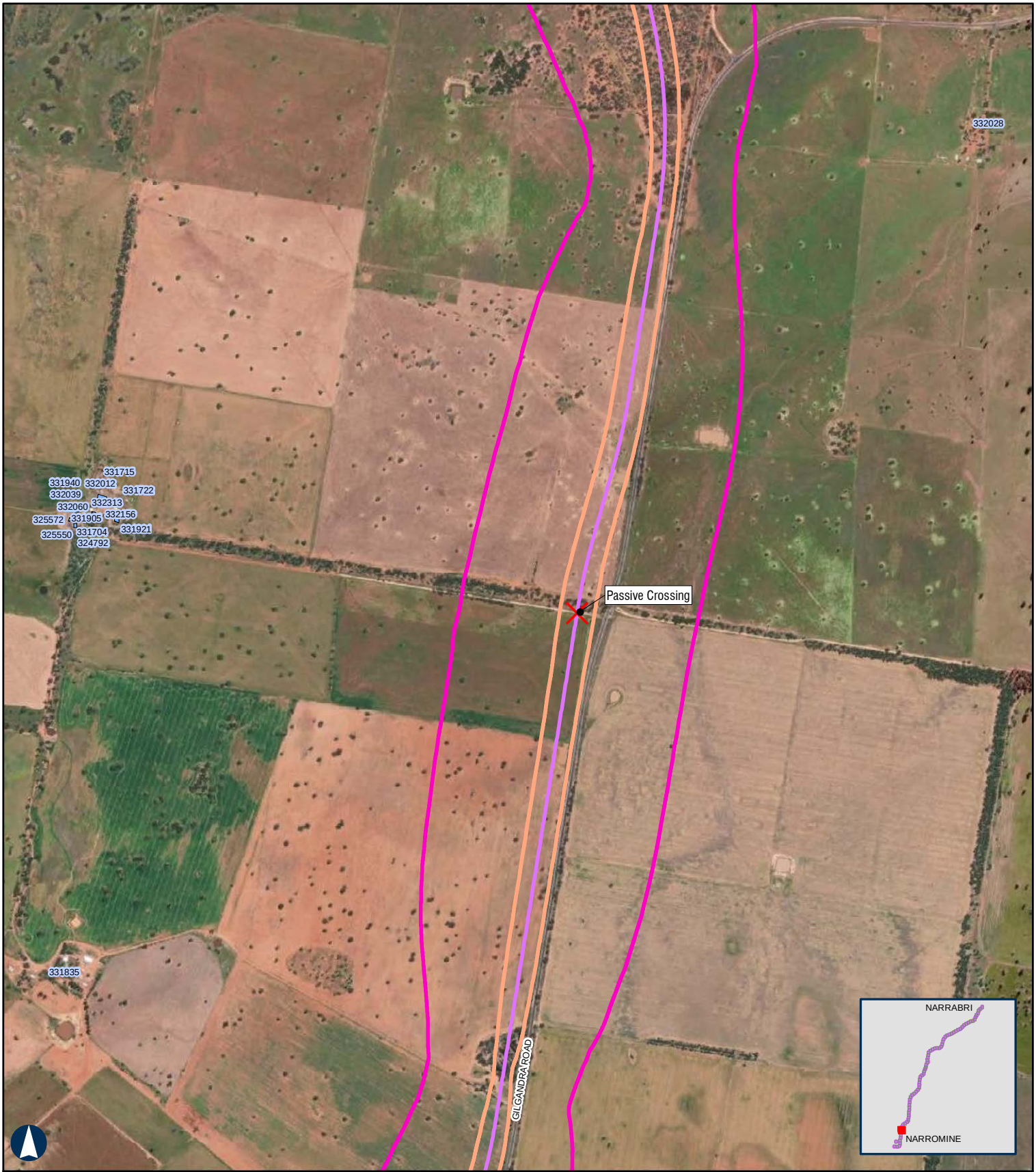
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 10 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

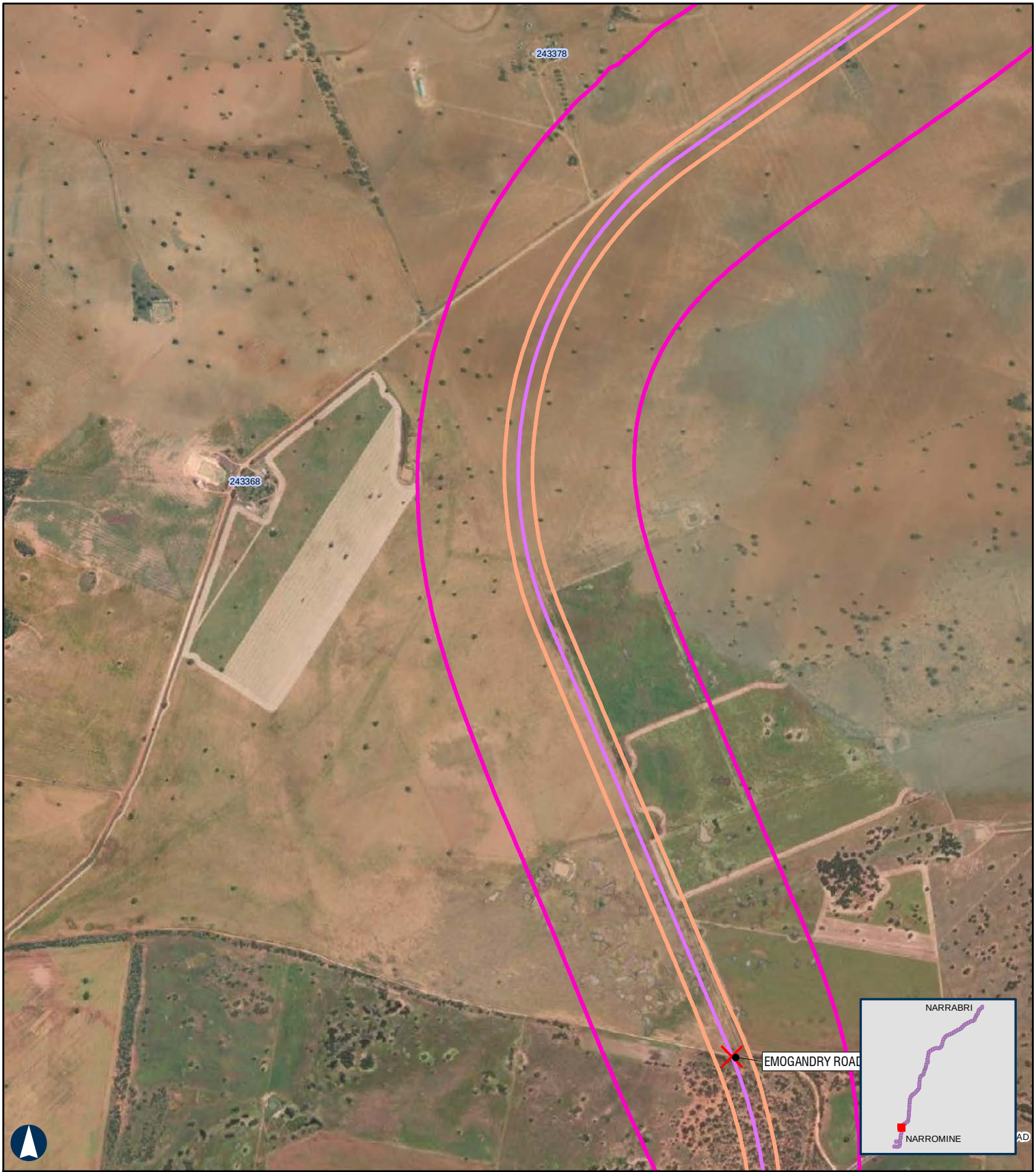
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

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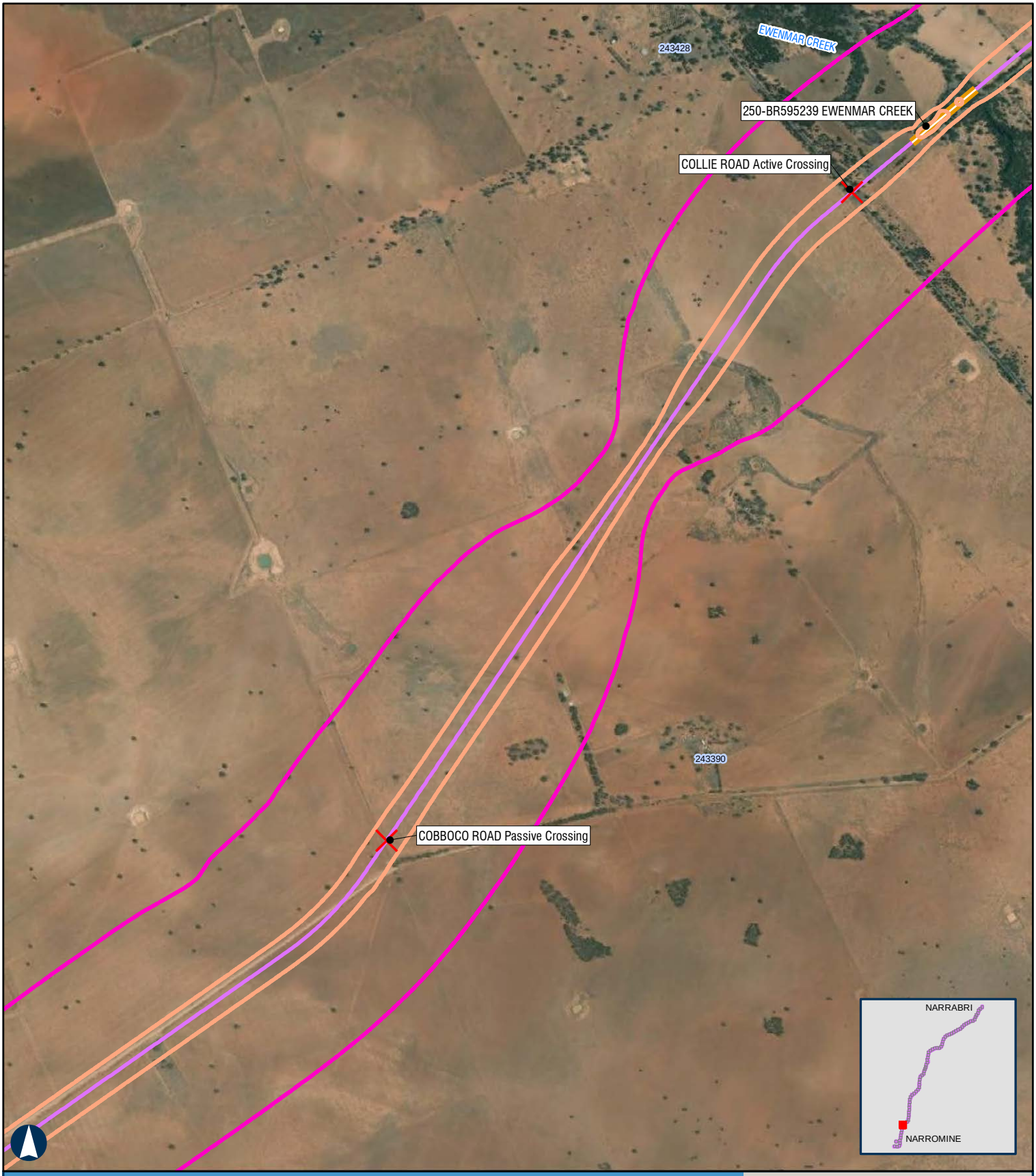
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 12 of 148

500 m

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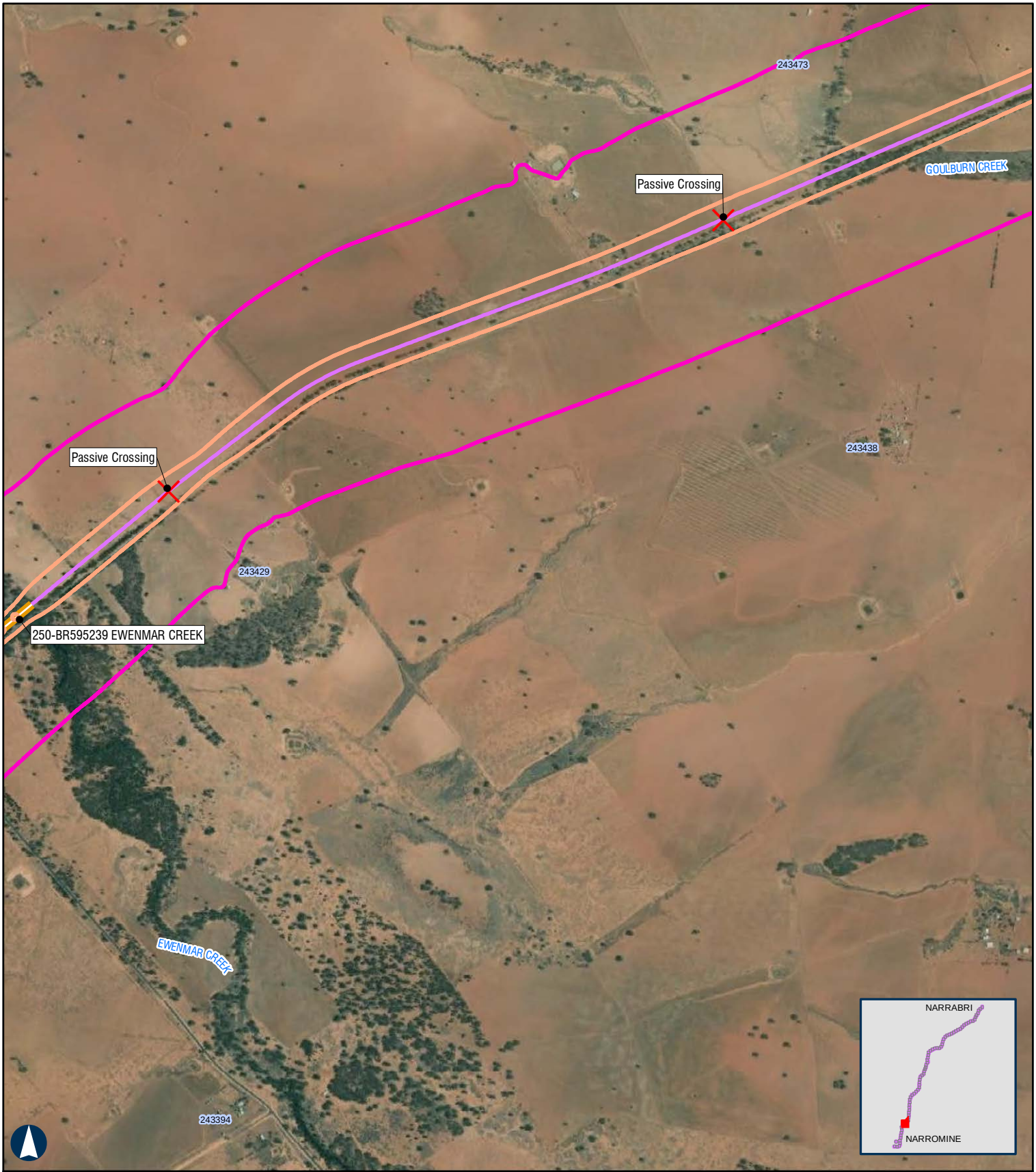
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 13 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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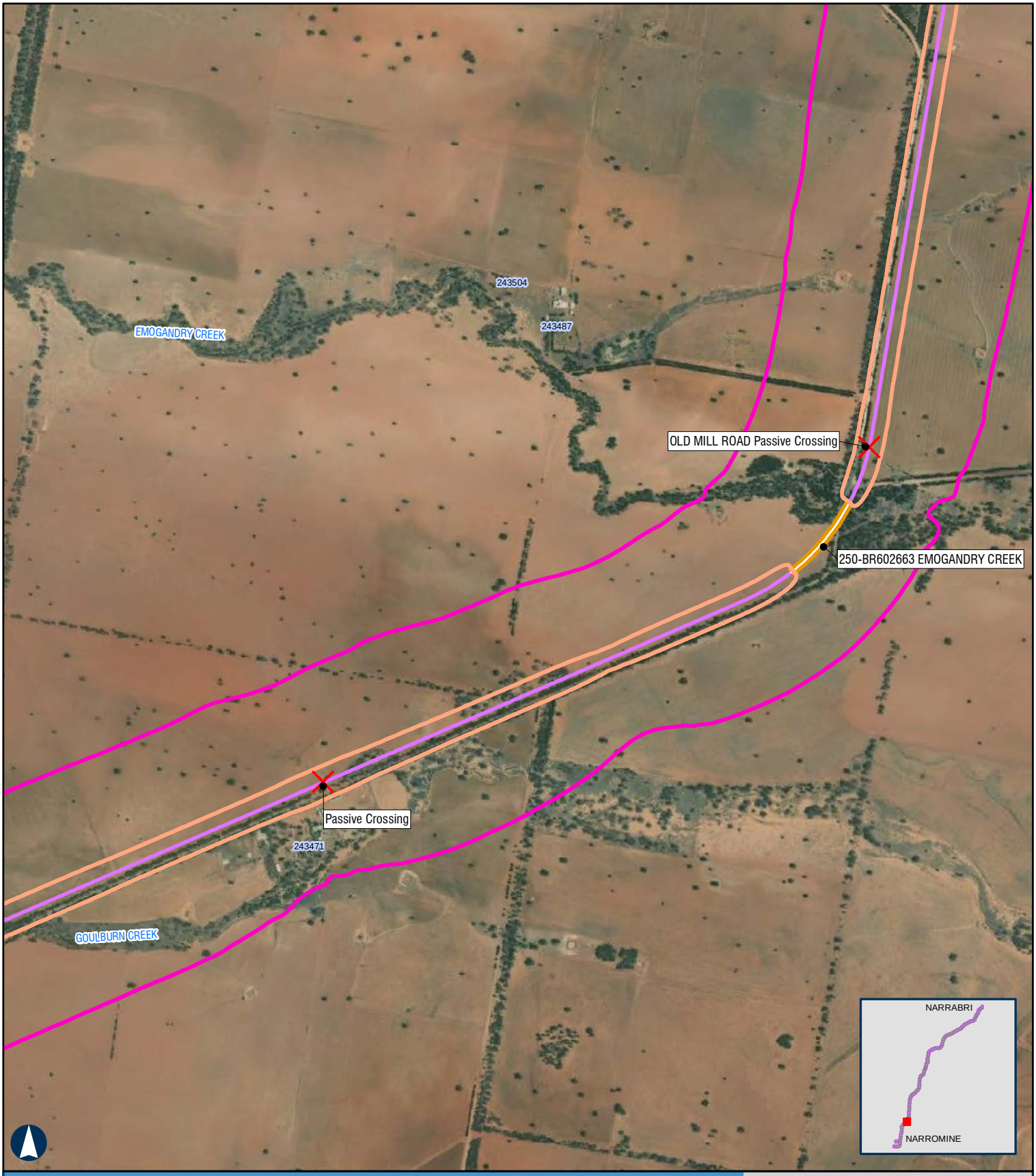
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 14 of 148

500 m

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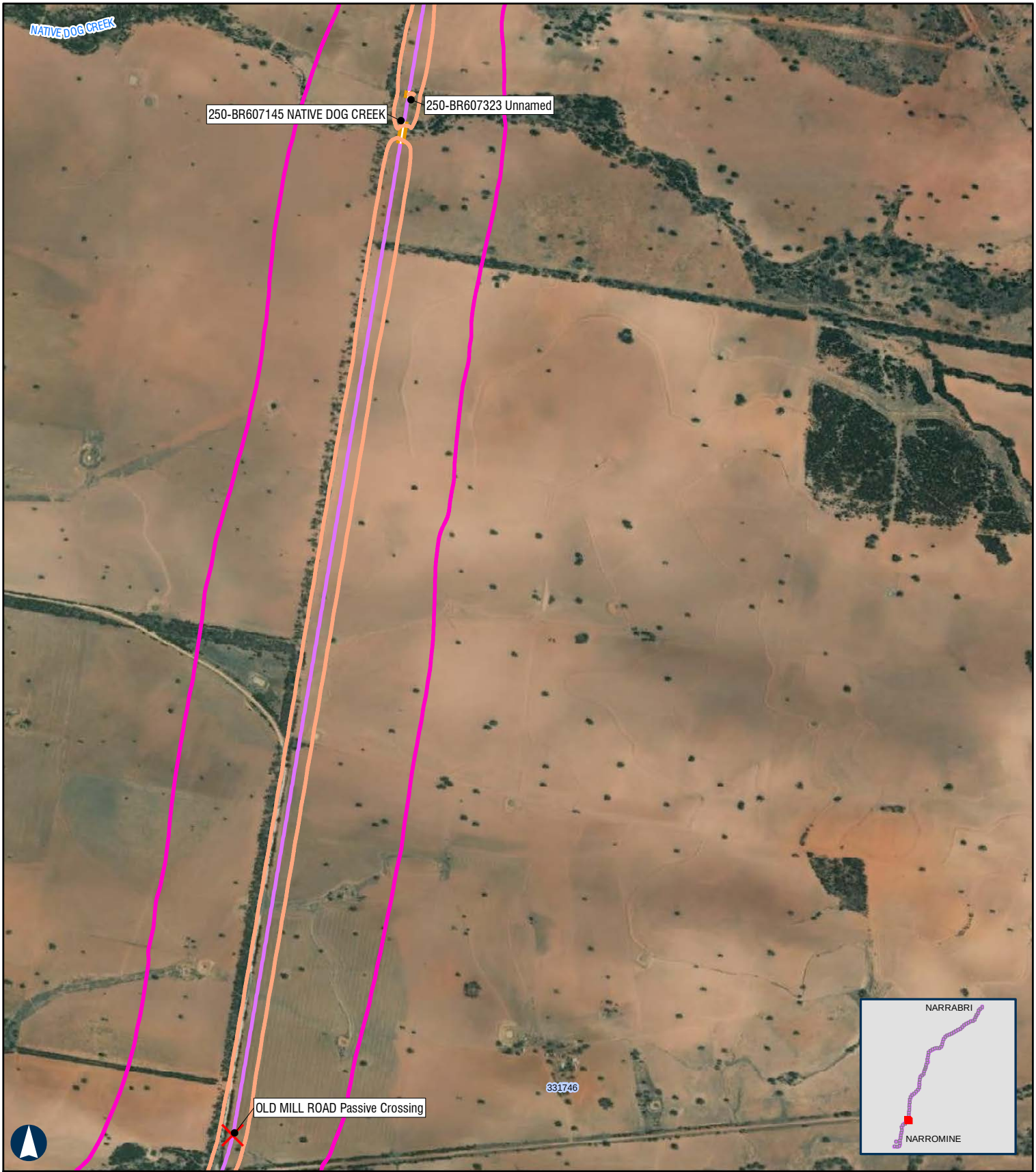
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 15 of 148

500 m

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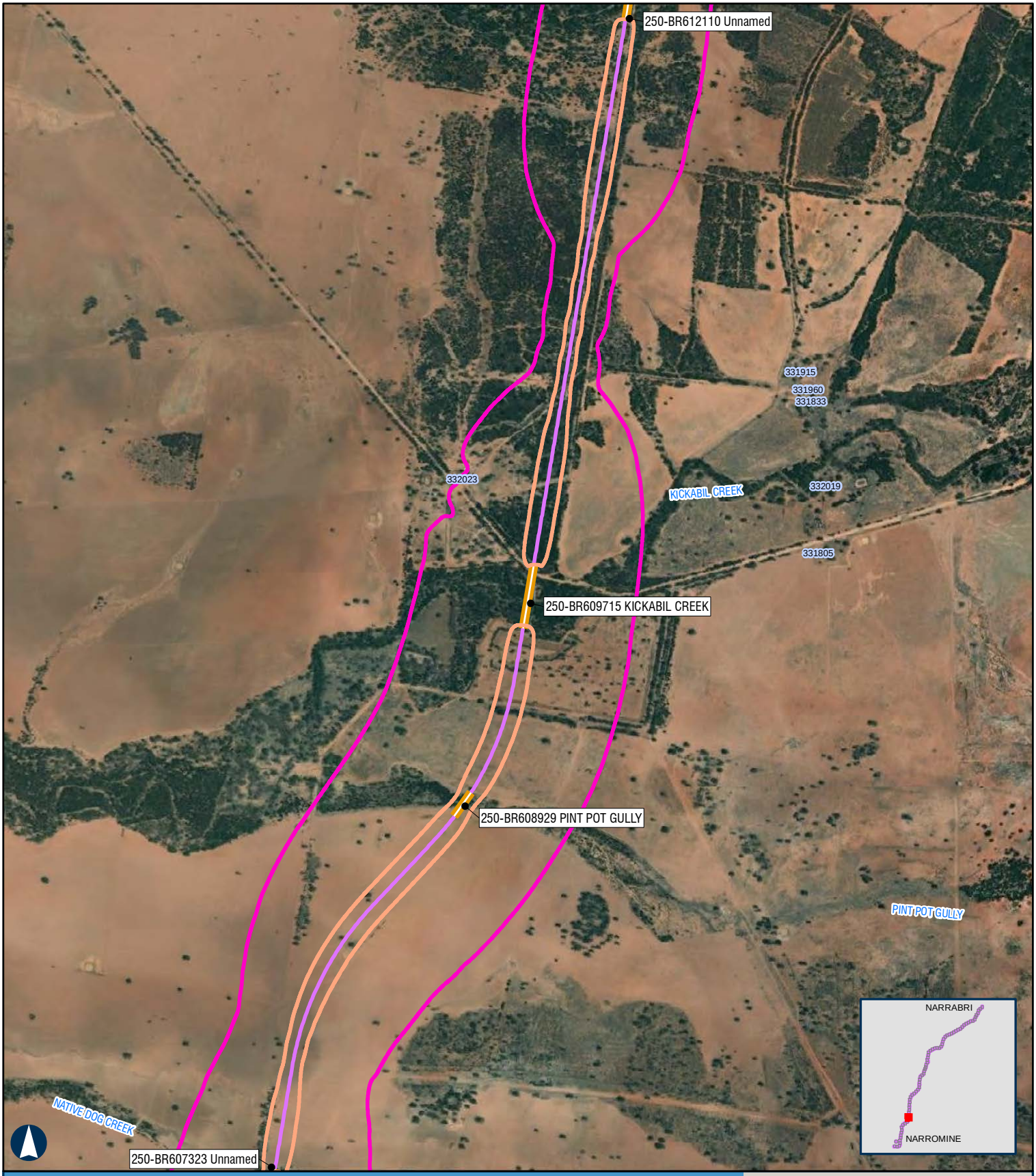
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Year 2026 Daytime Rail Noise Levels

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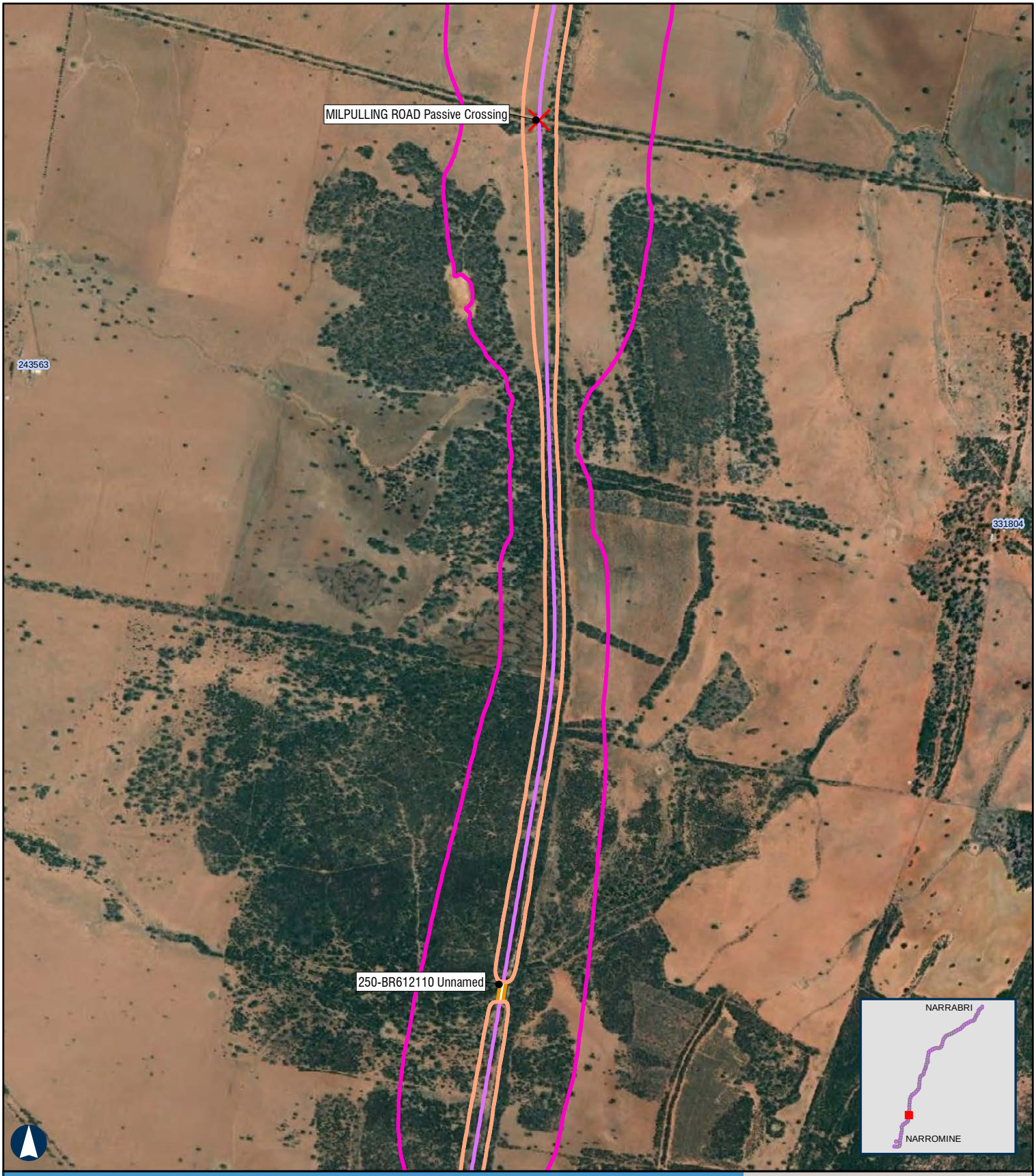
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Year 2026 Daytime Rail Noise Levels

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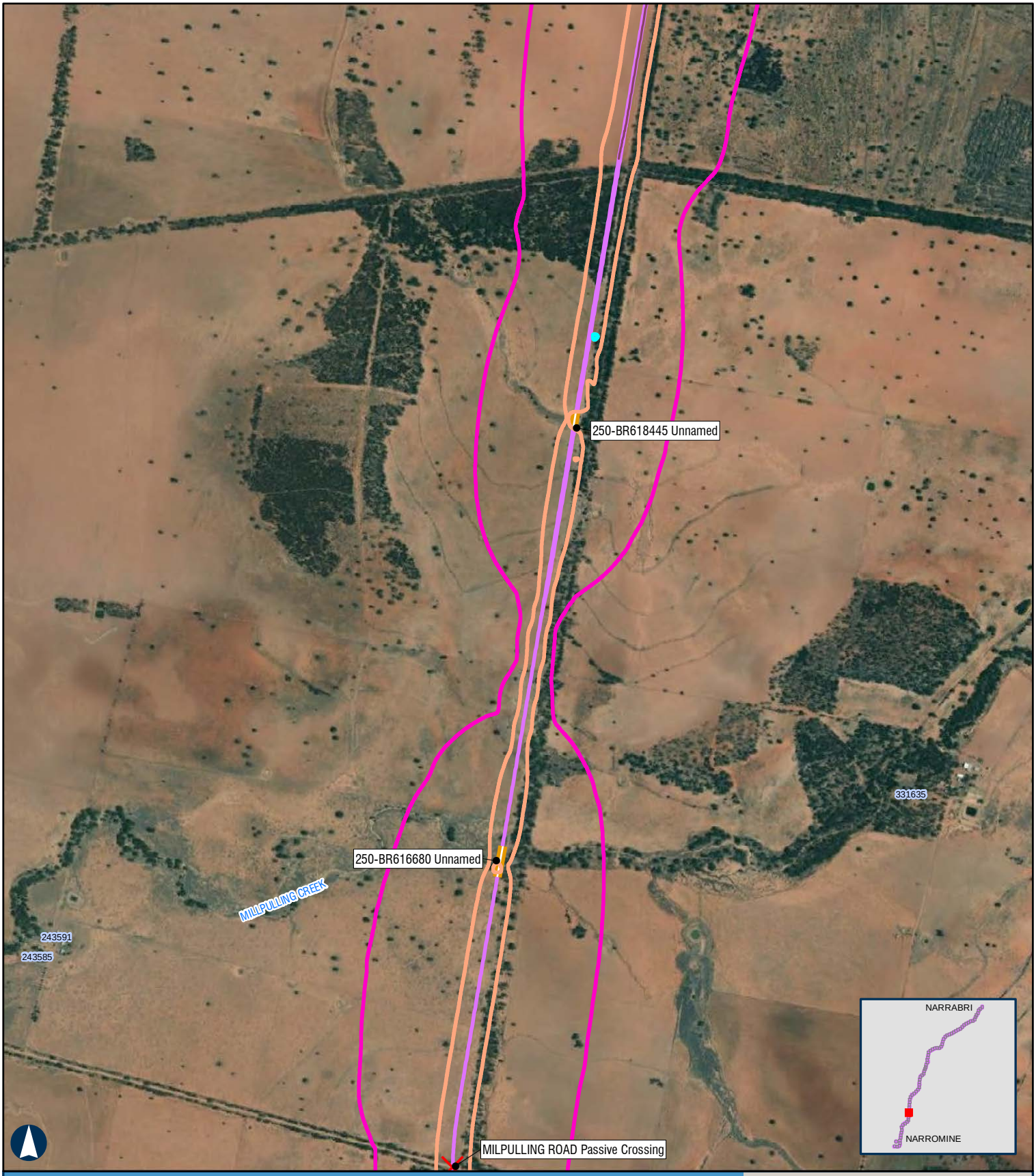
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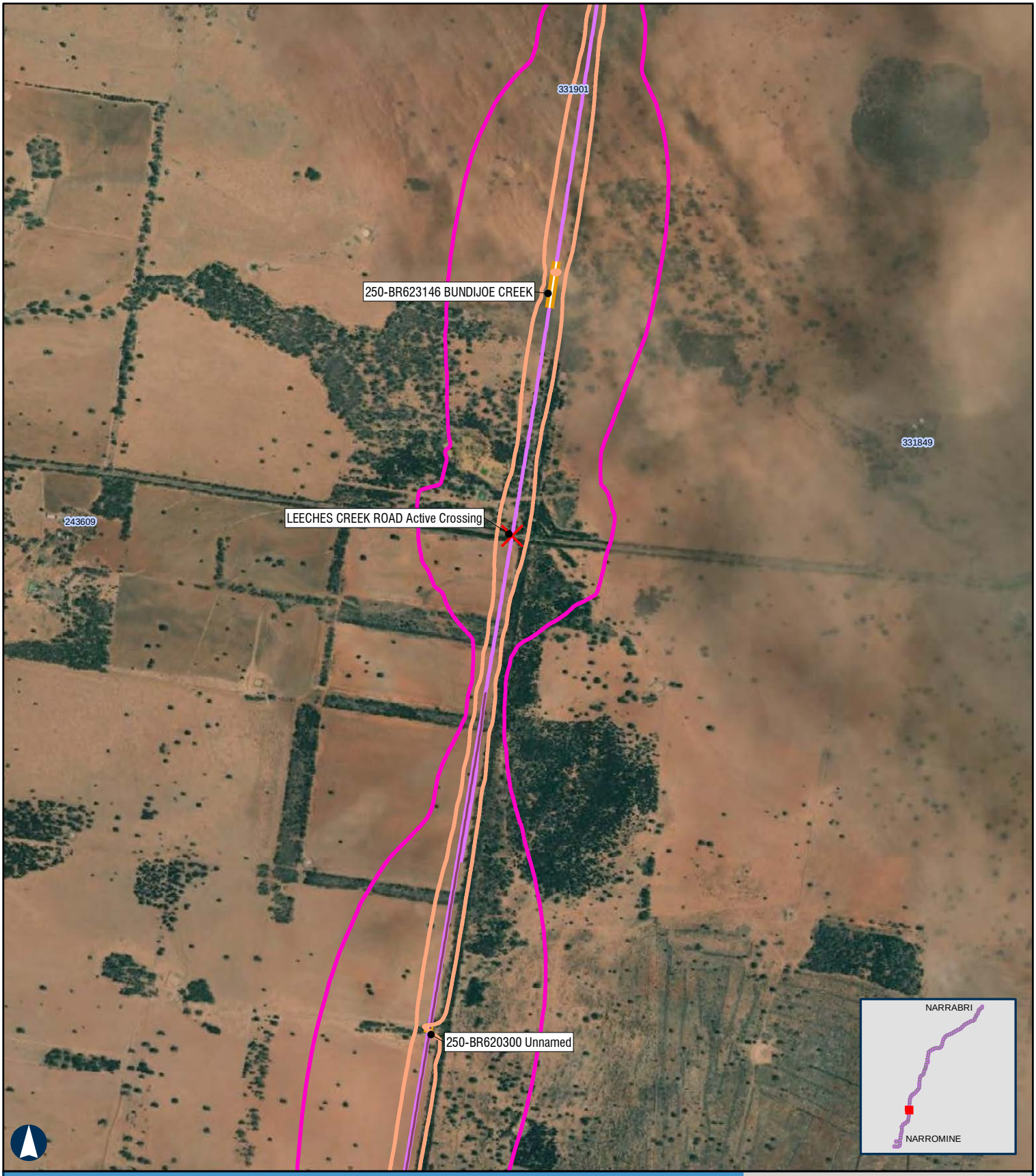
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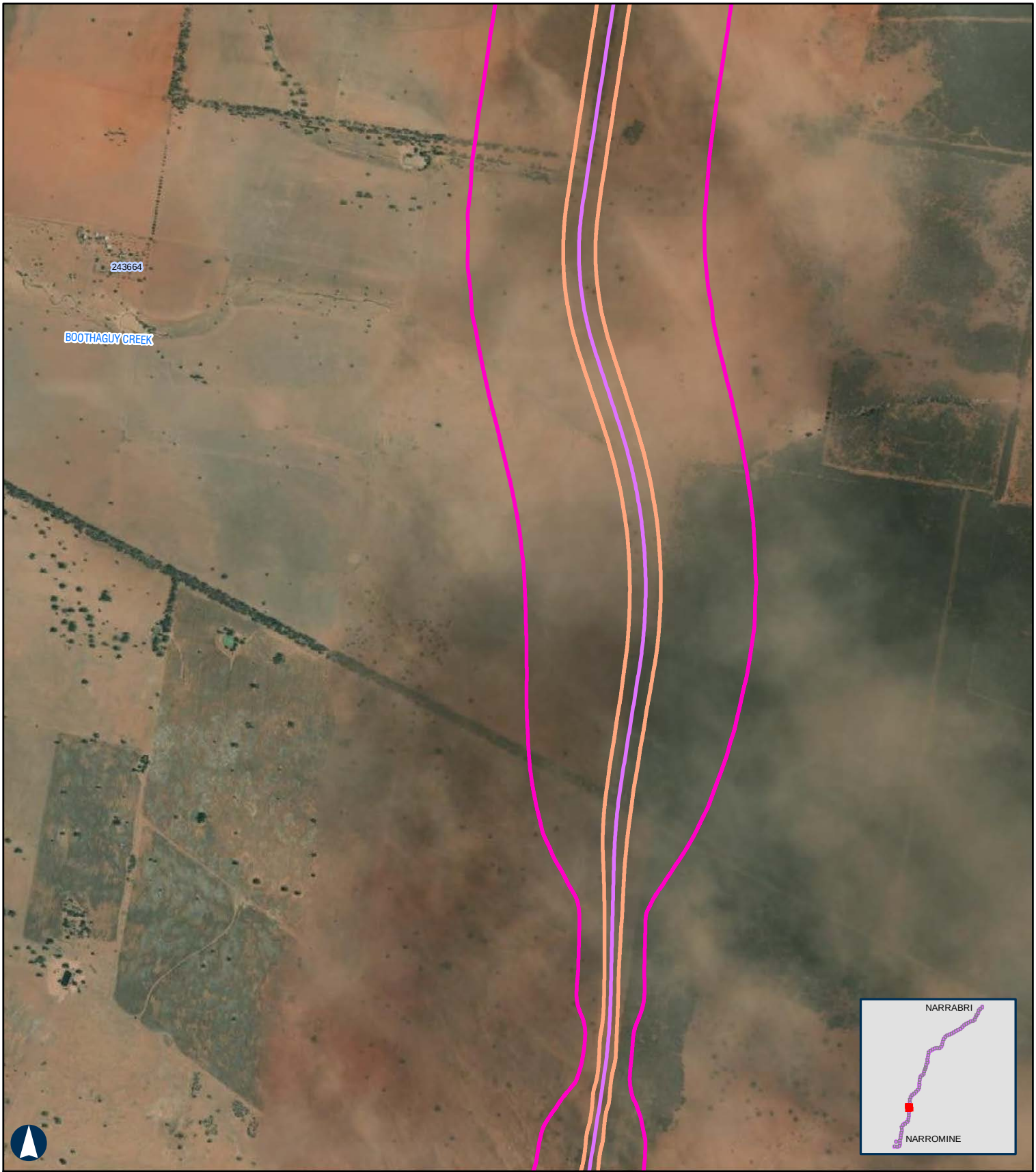
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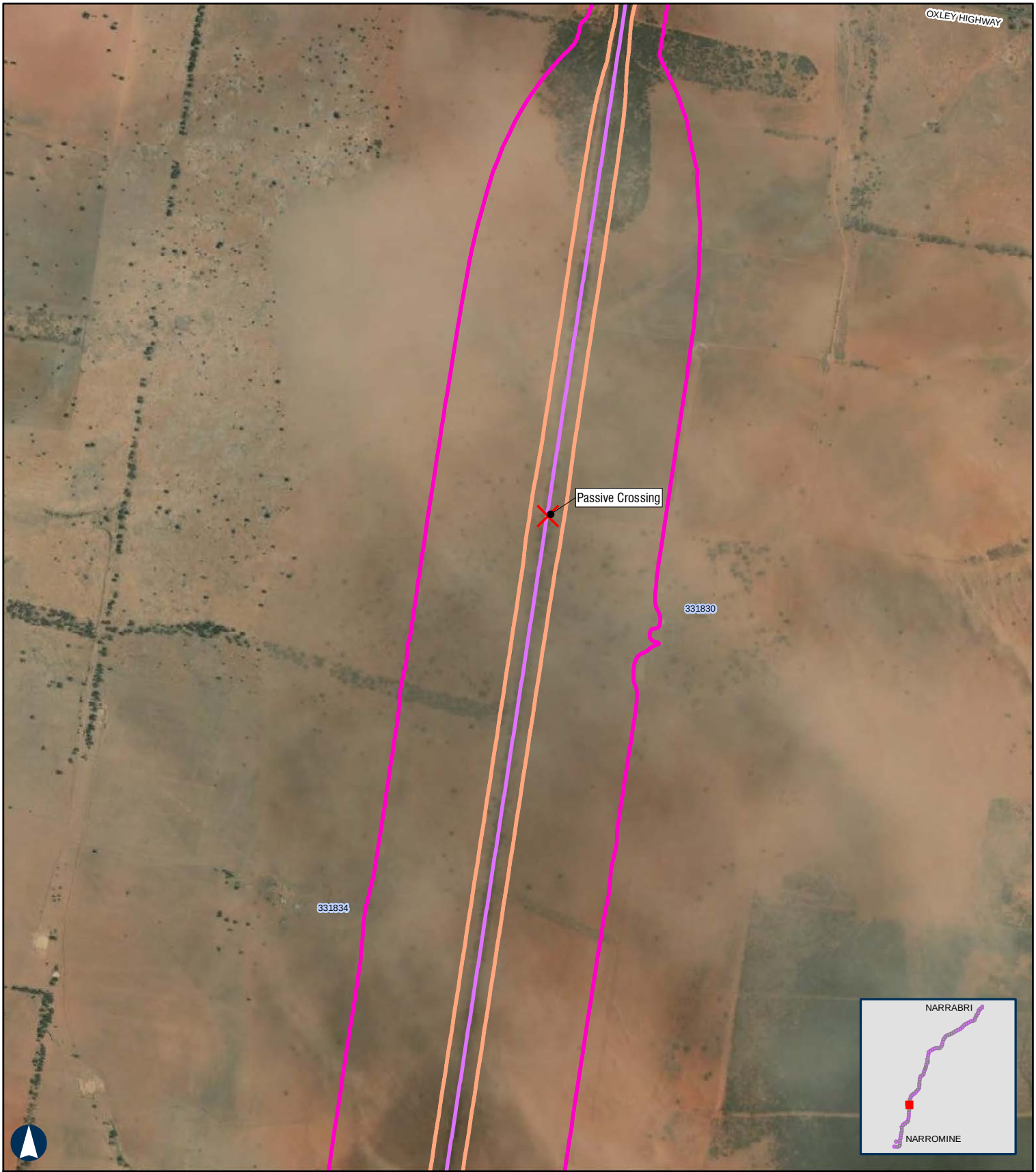
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 21 of 148

500 m

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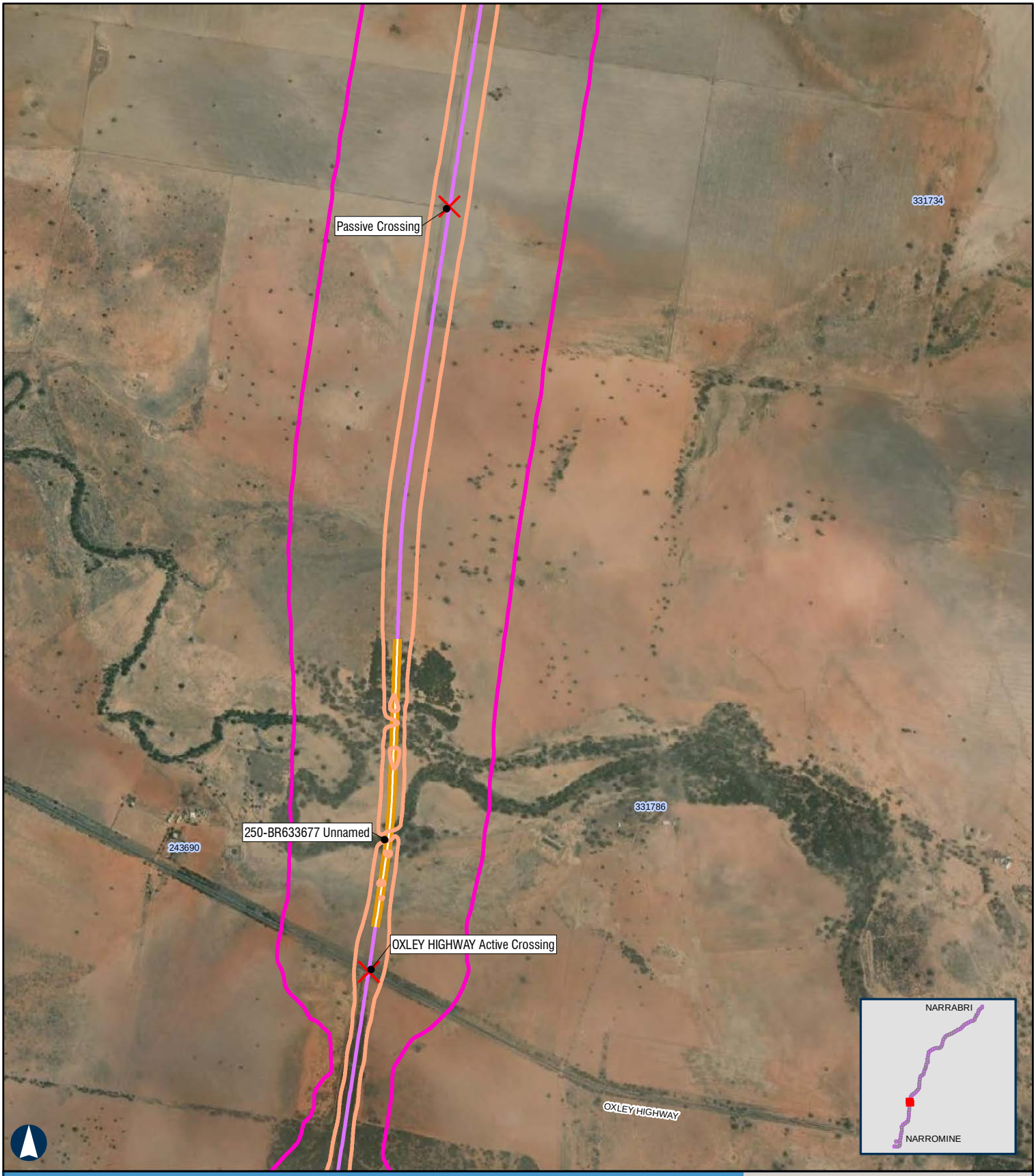
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 22 of 148

500 m

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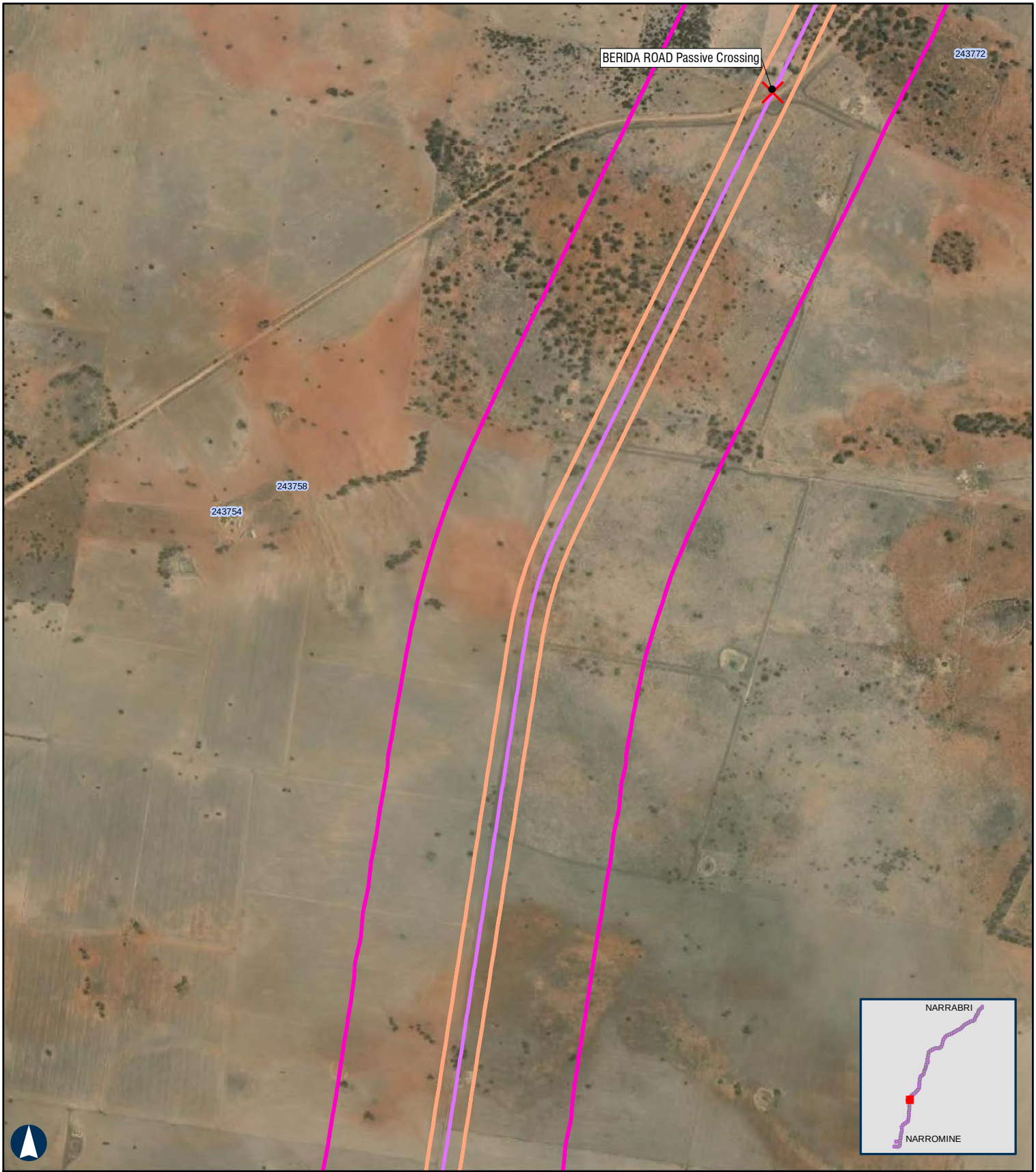
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.

ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

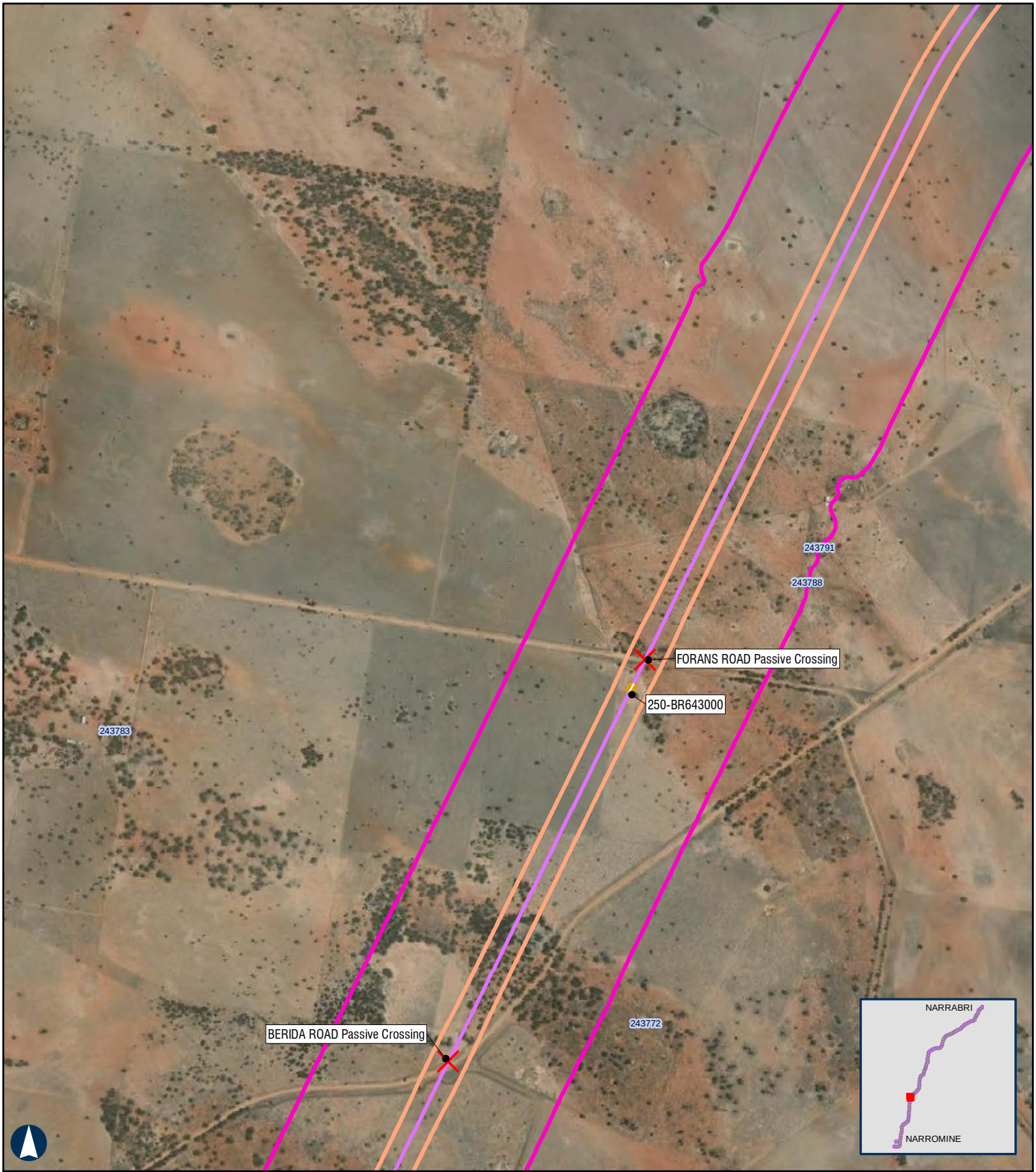
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 24 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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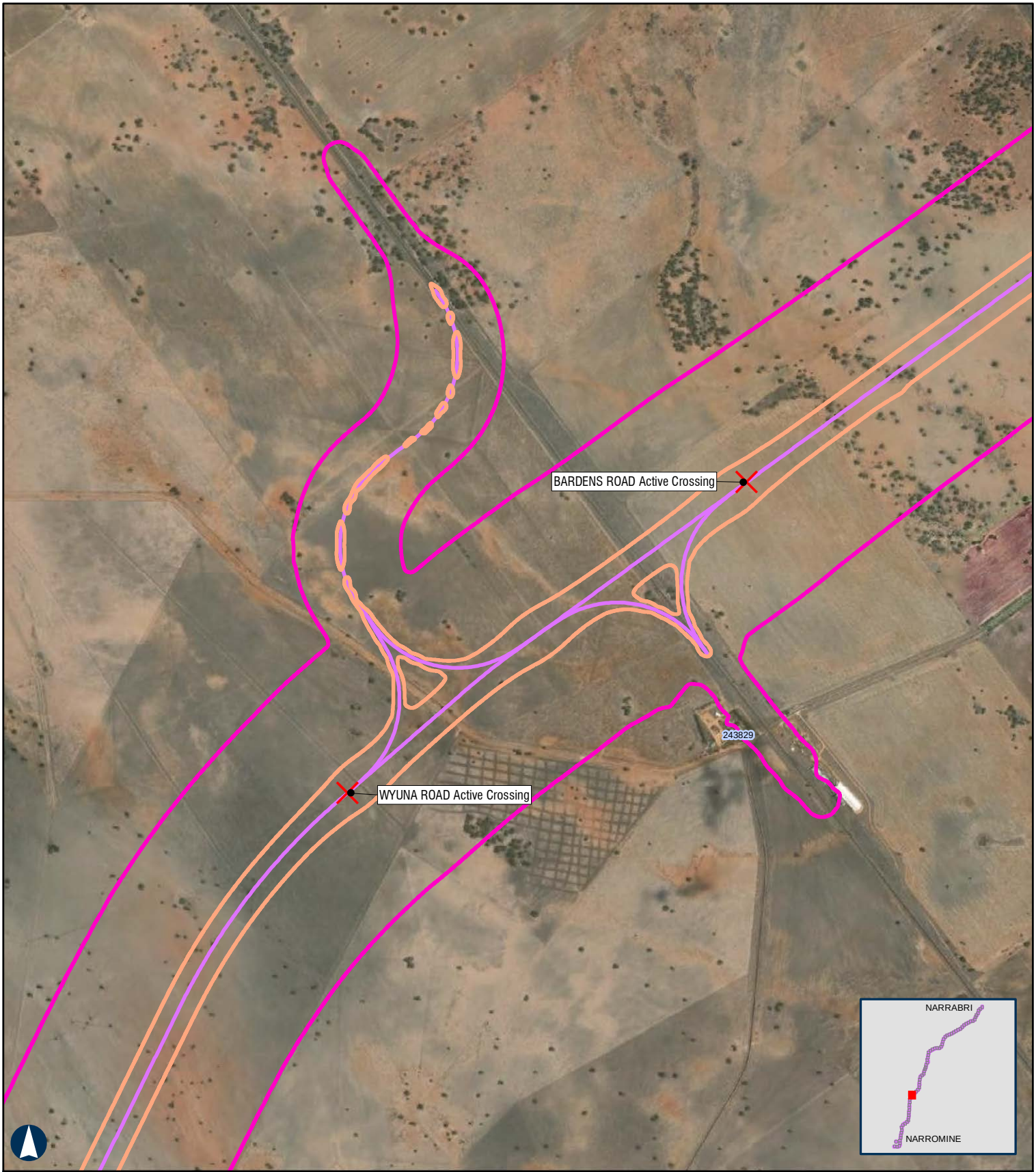
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Year 2026 Daytime Rail Noise Levels

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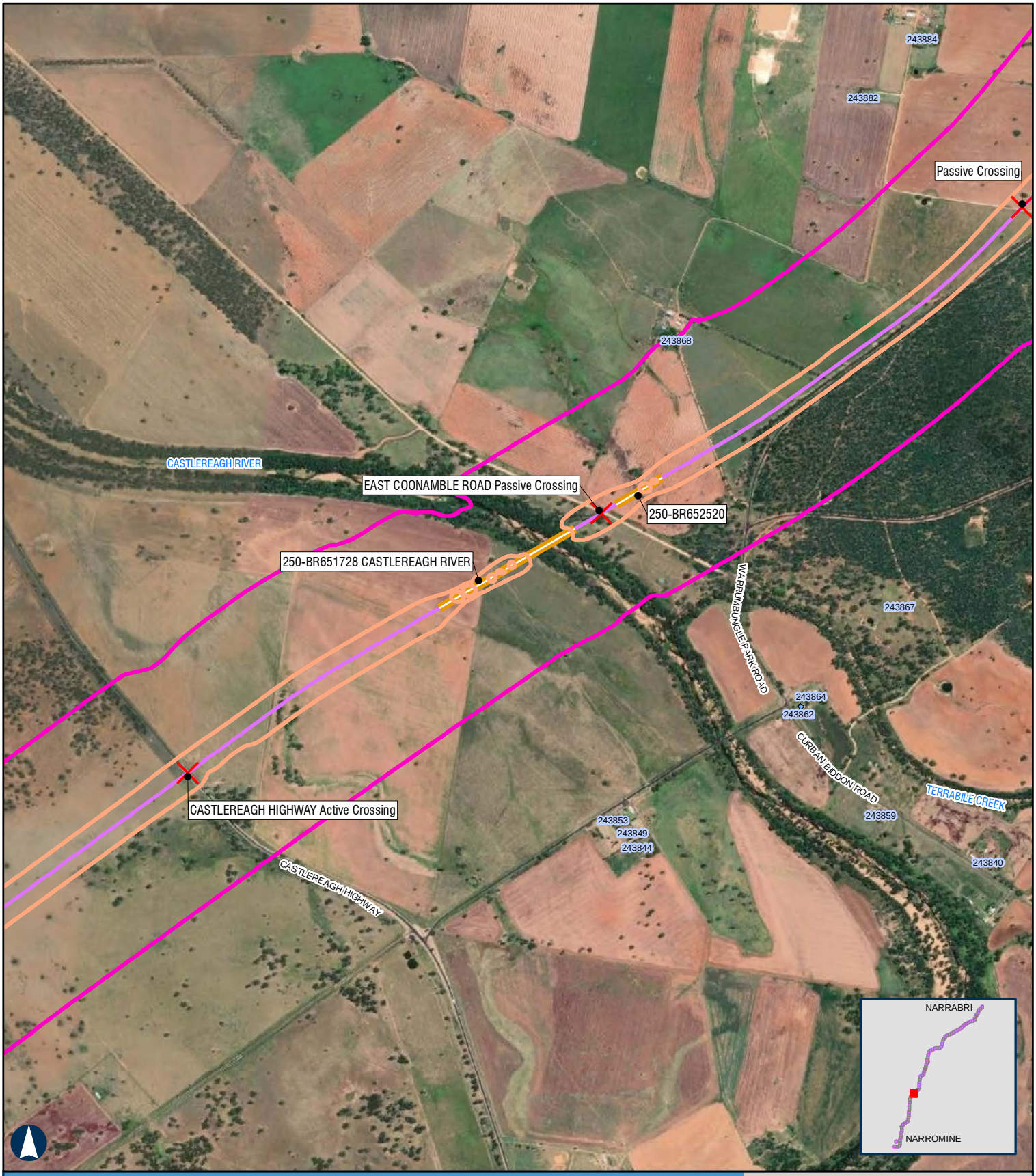
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 26 of 148

500 m

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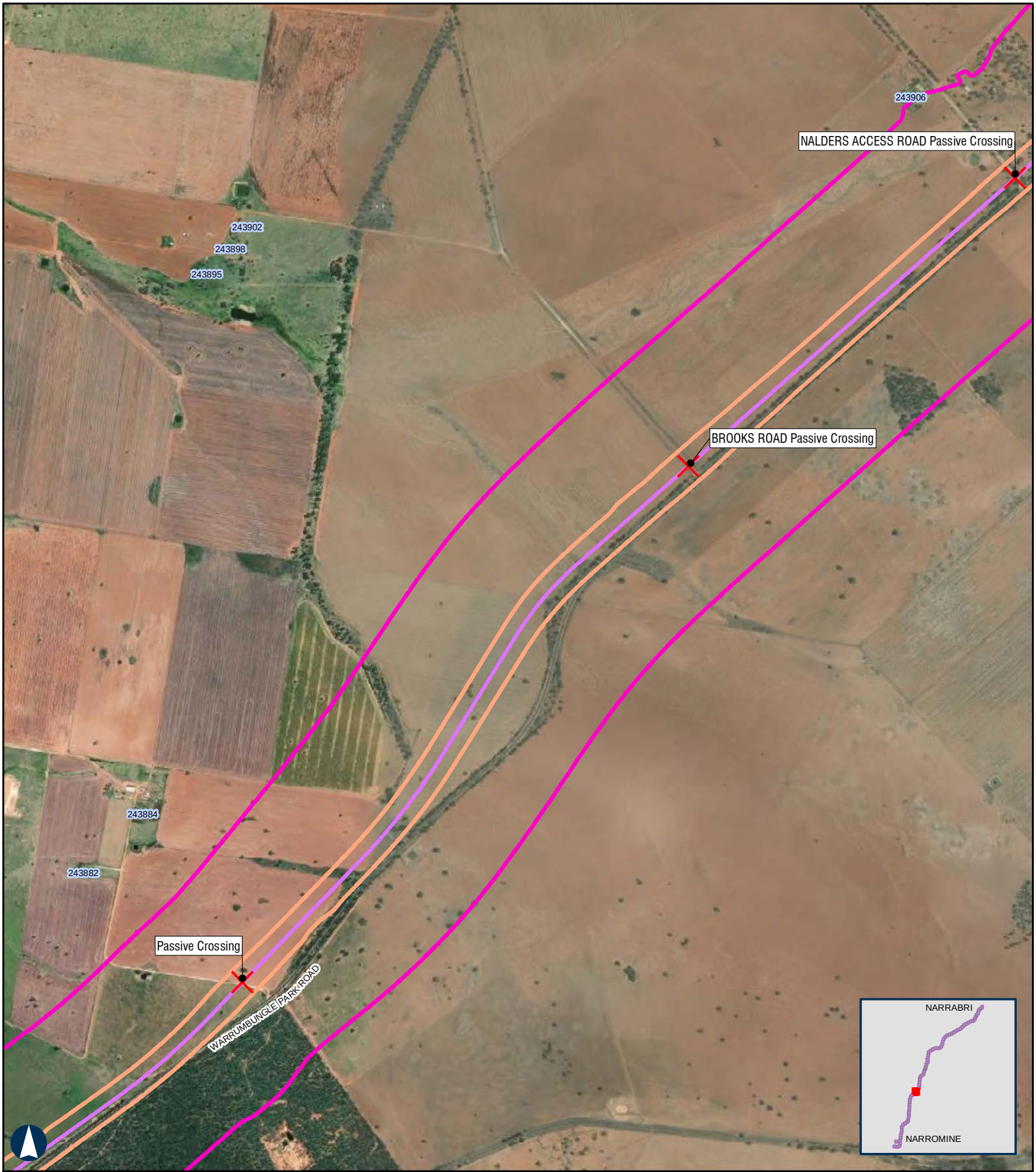
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 27 of 148

500 m

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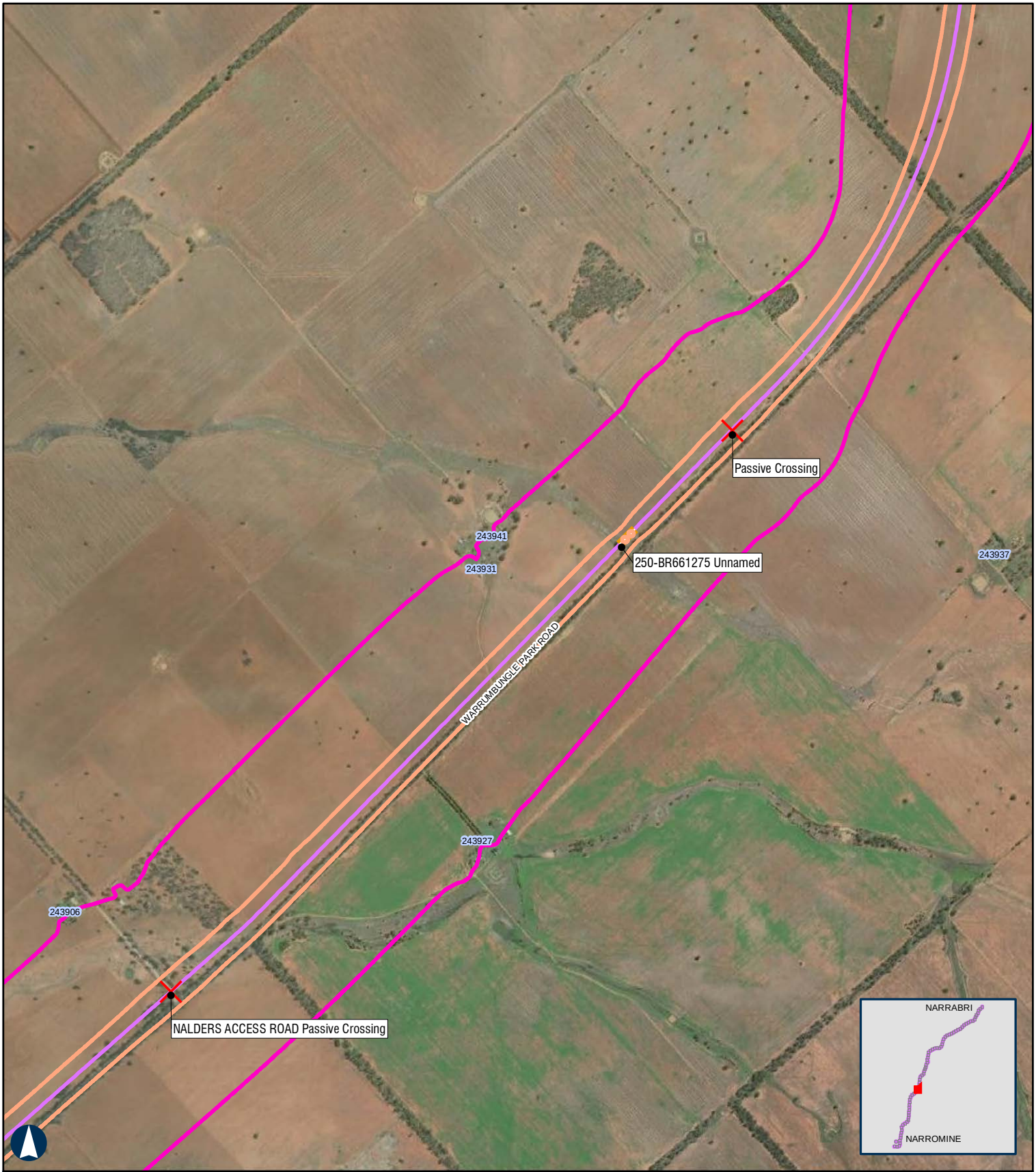
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 28 of 148

500 m

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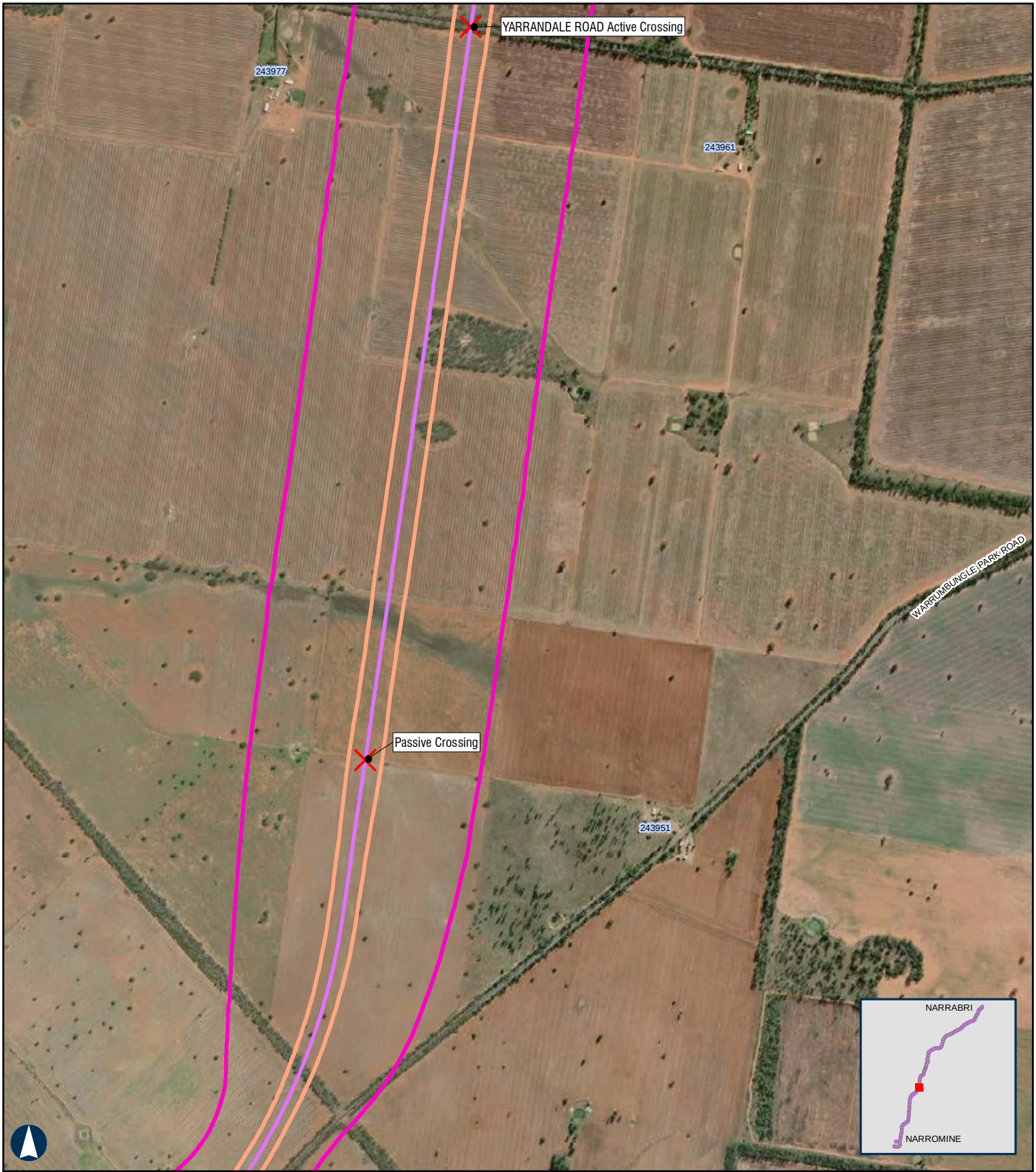
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 29 of 148

500 m

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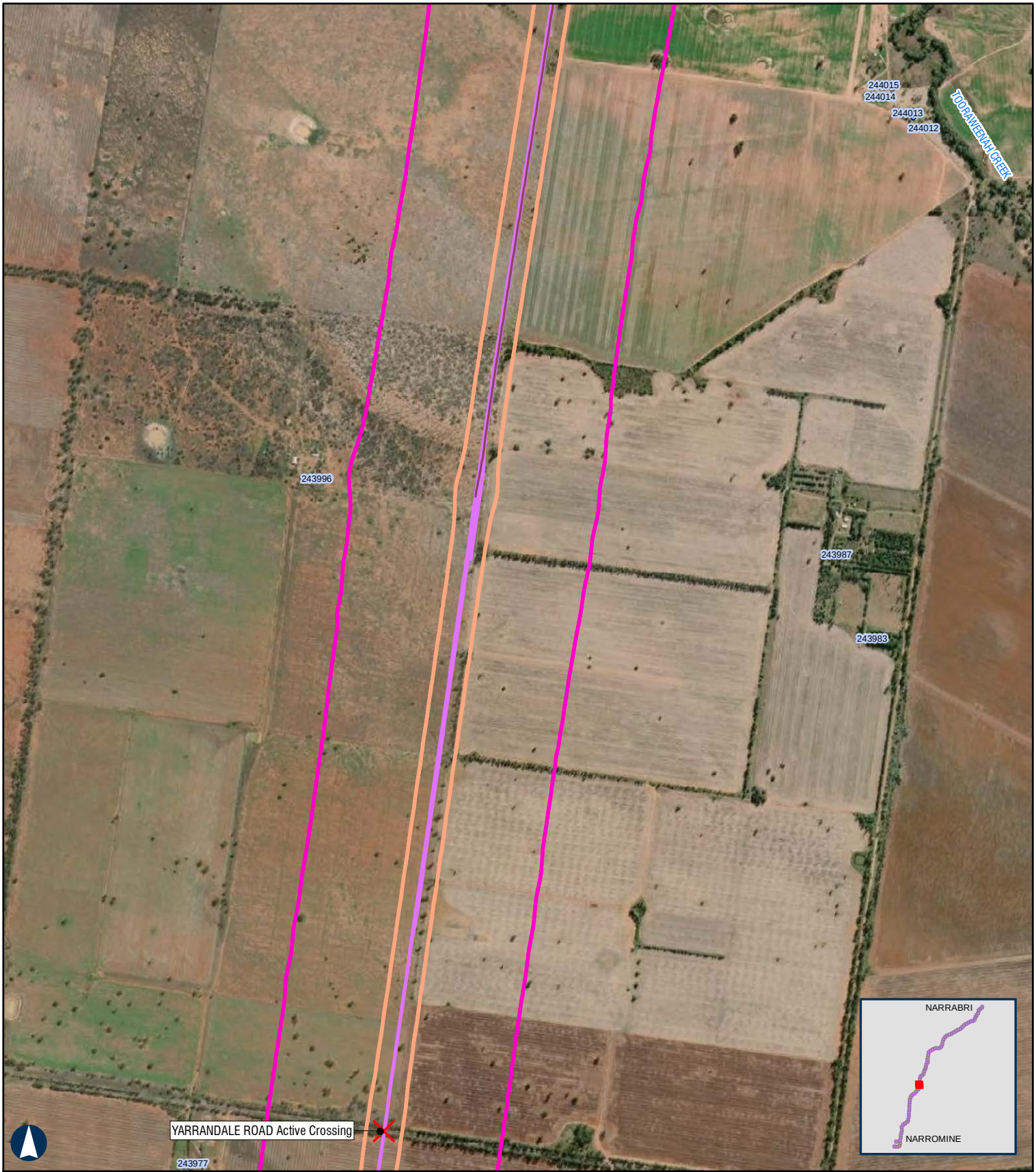
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 30 of 148

500 m

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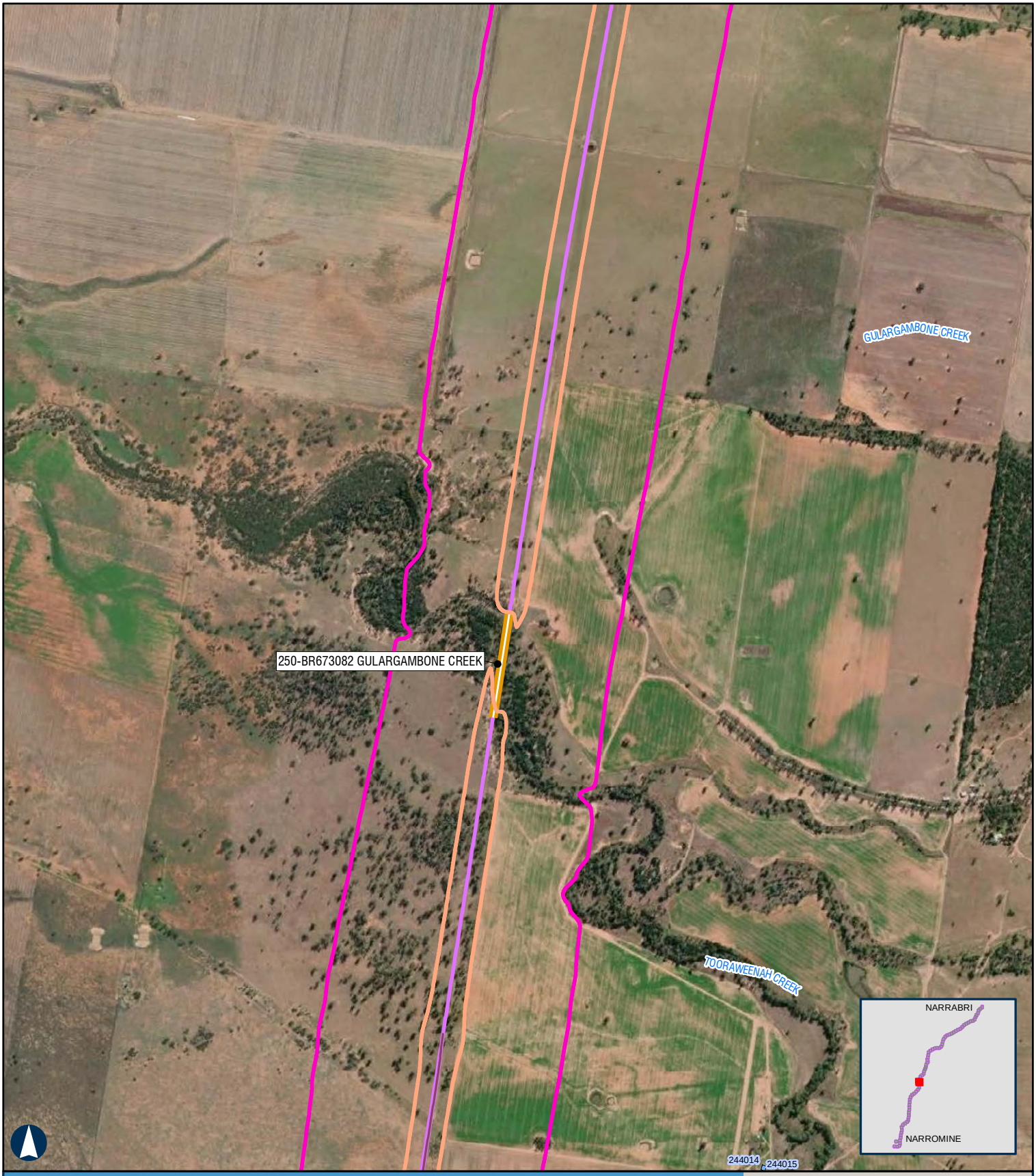
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 31 of 148

500 m

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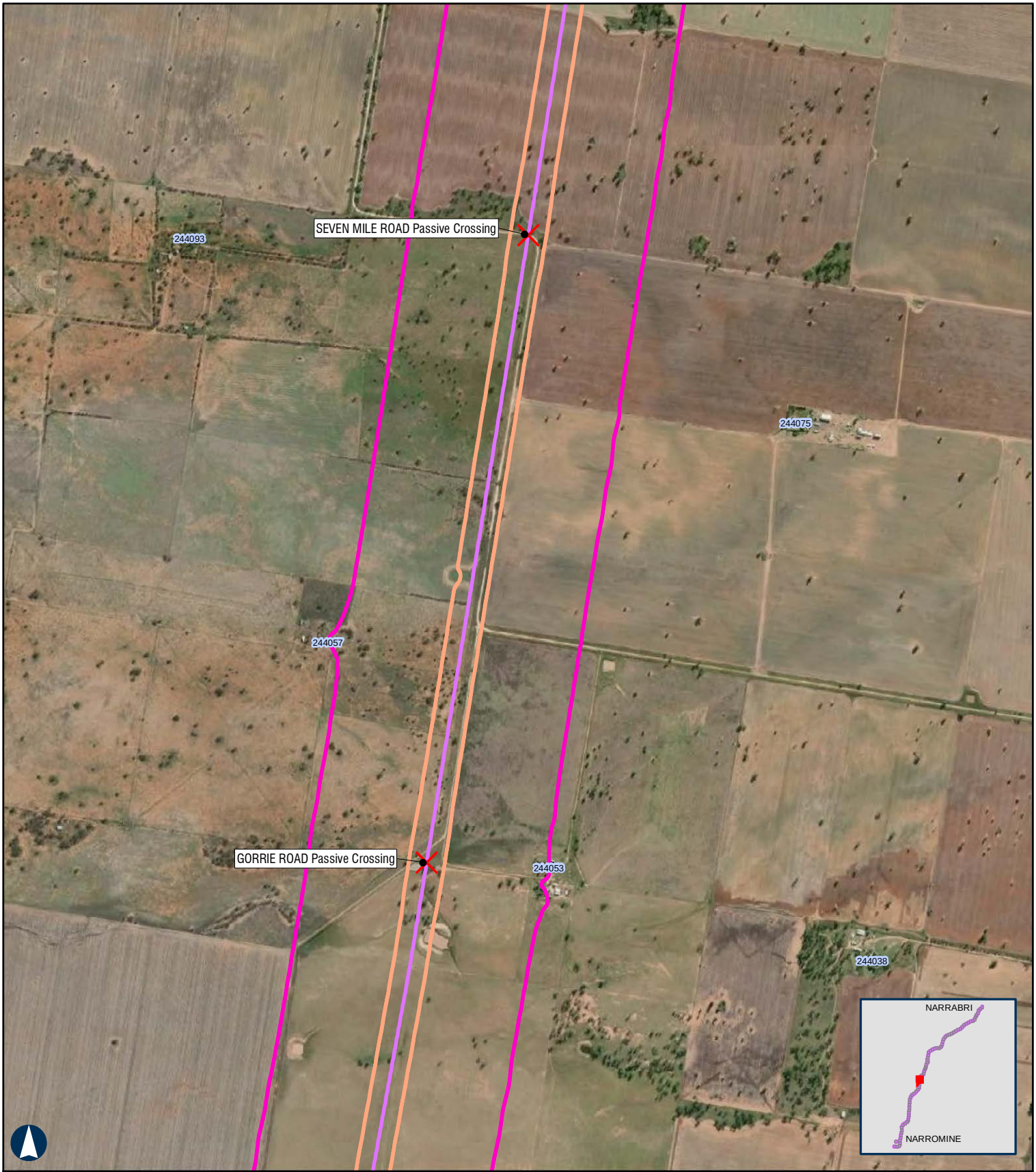
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 32 of 148

500 m

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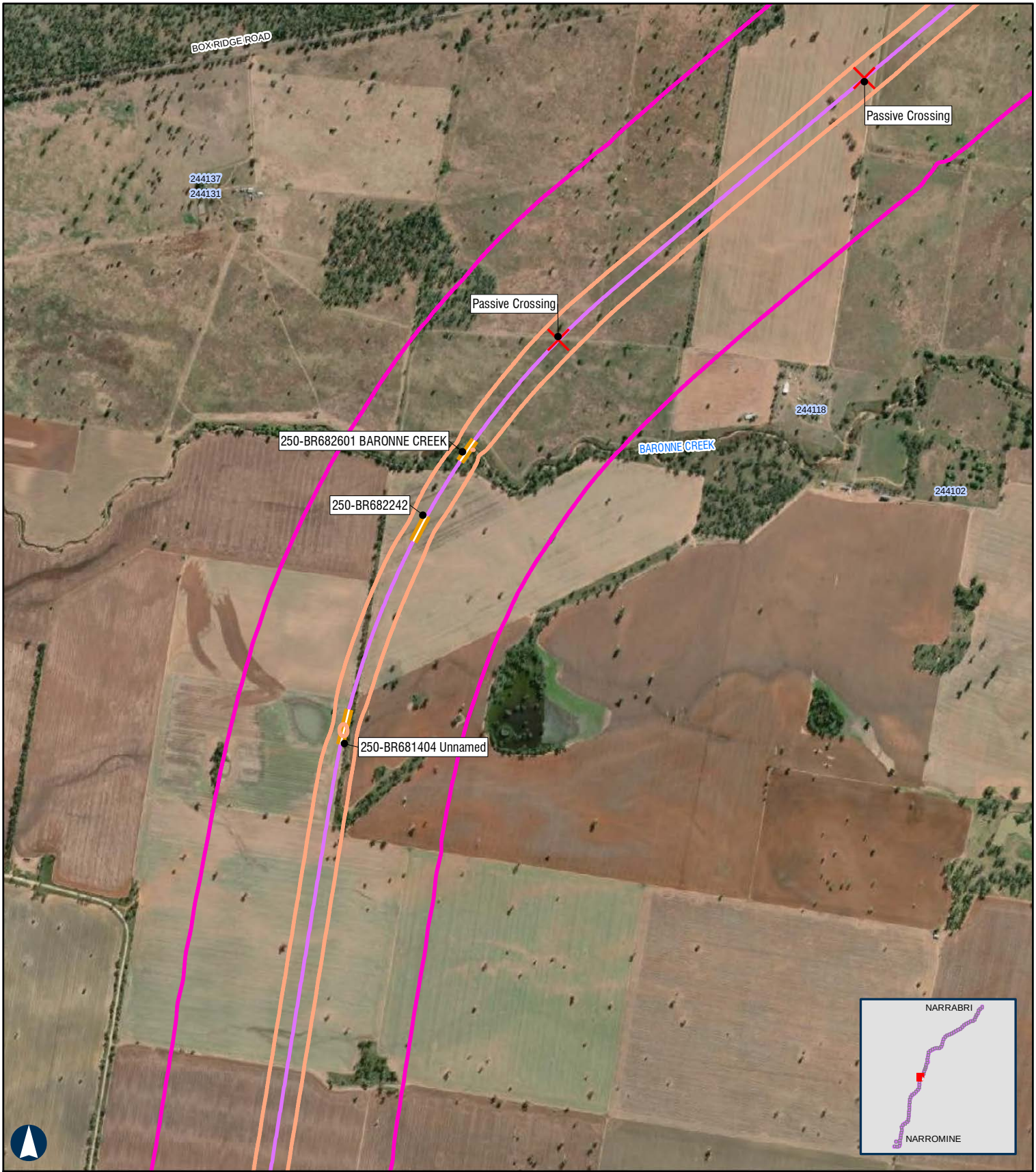
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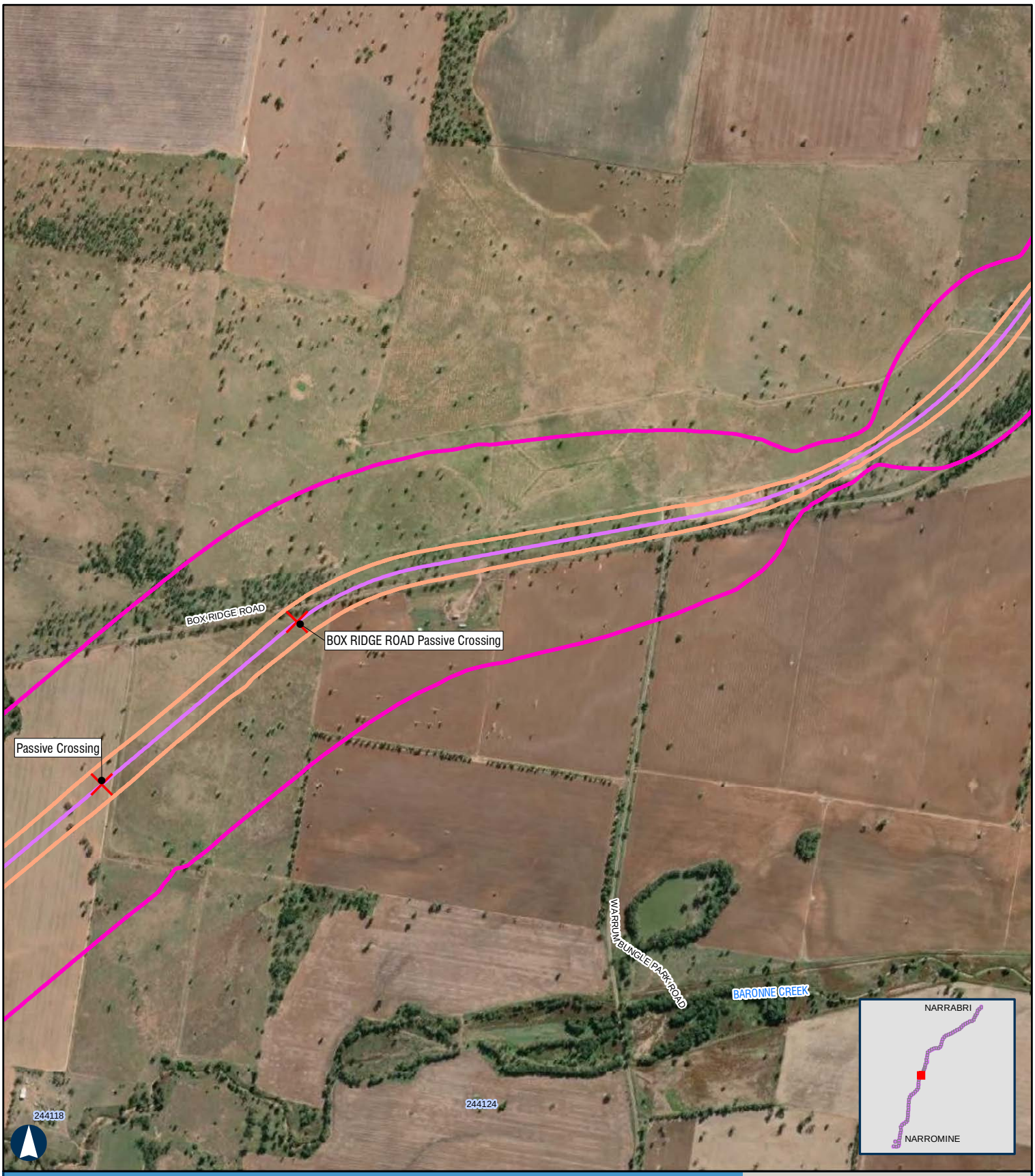
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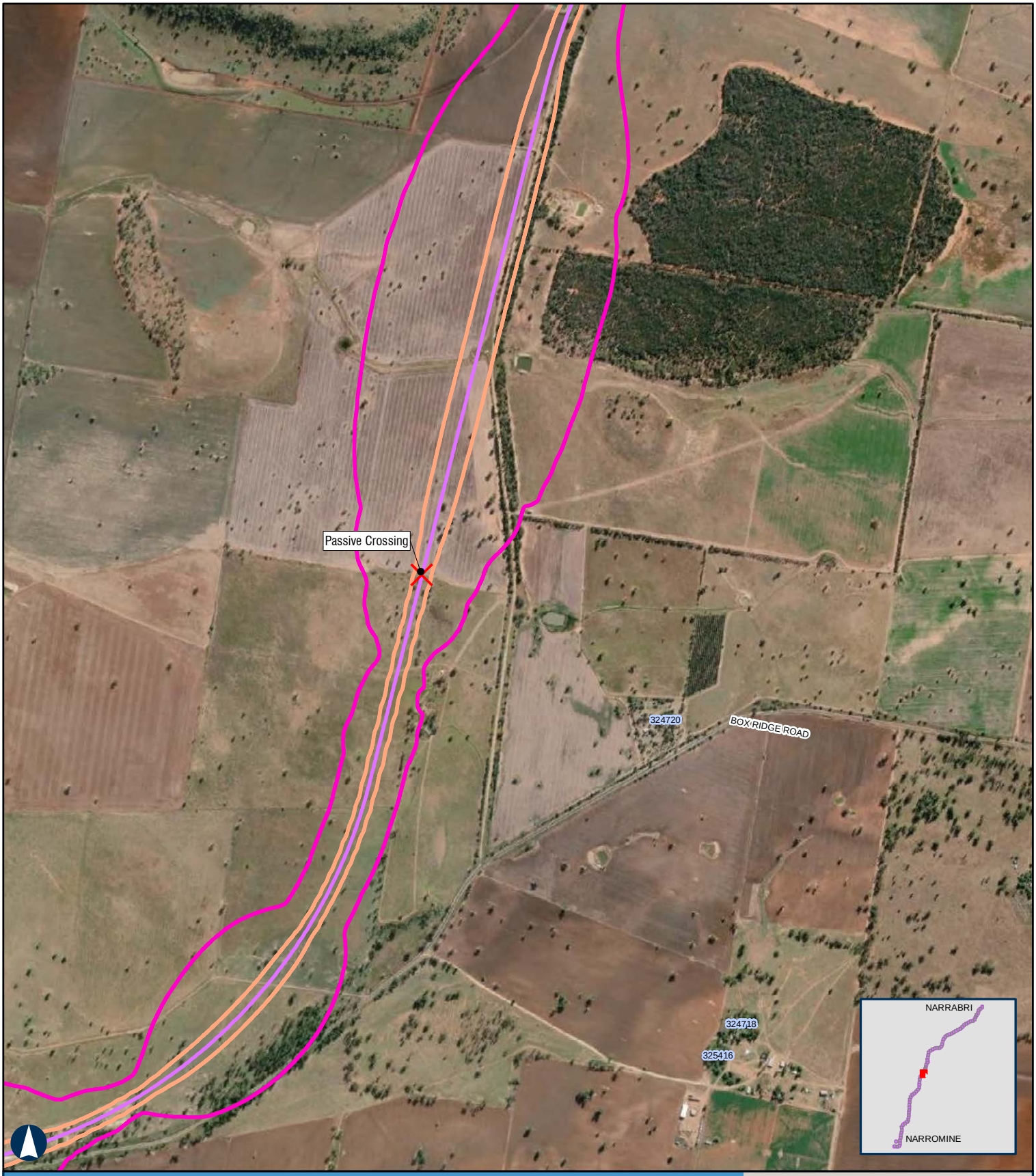
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 35 of 148

500 m

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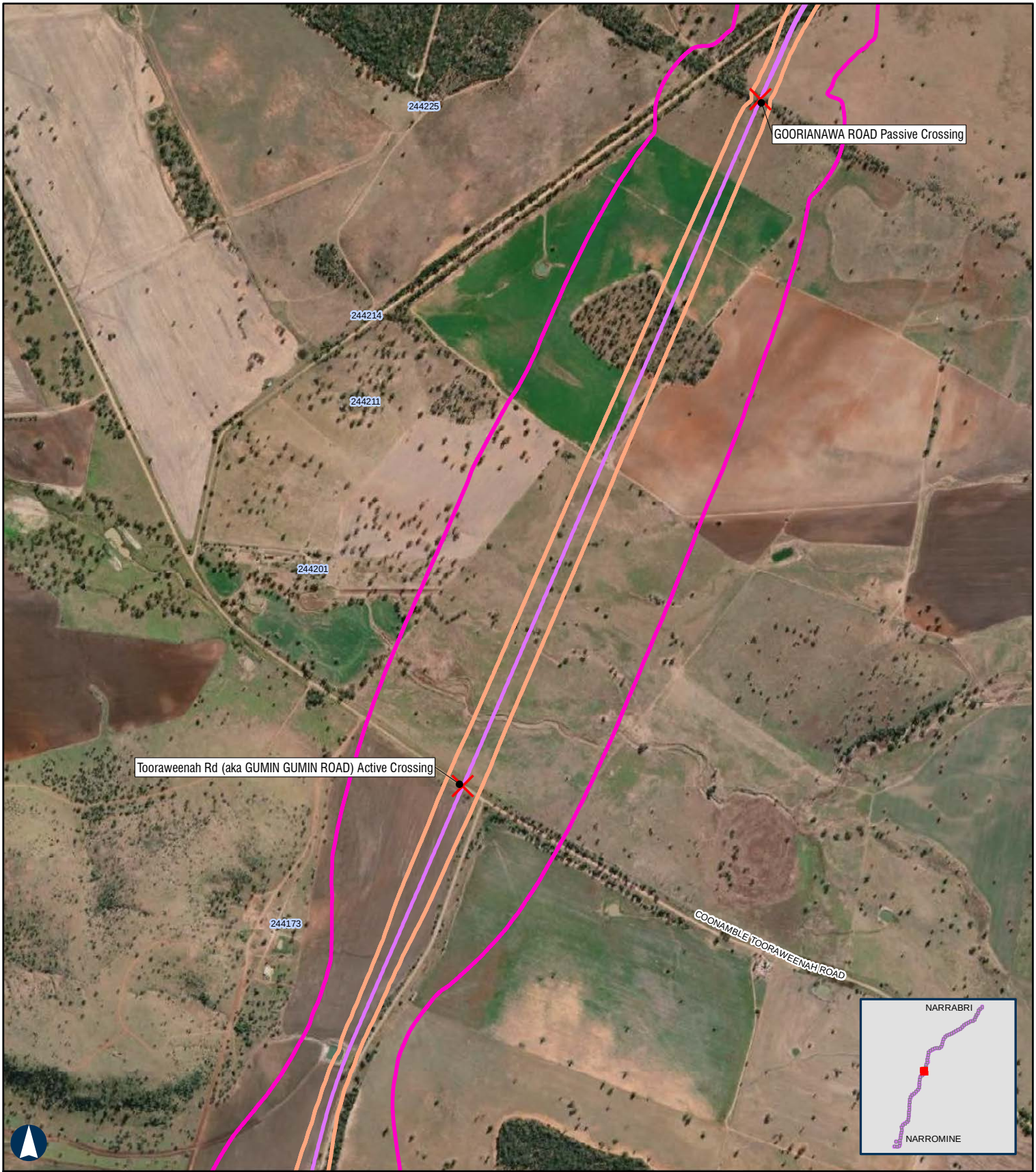
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 36 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

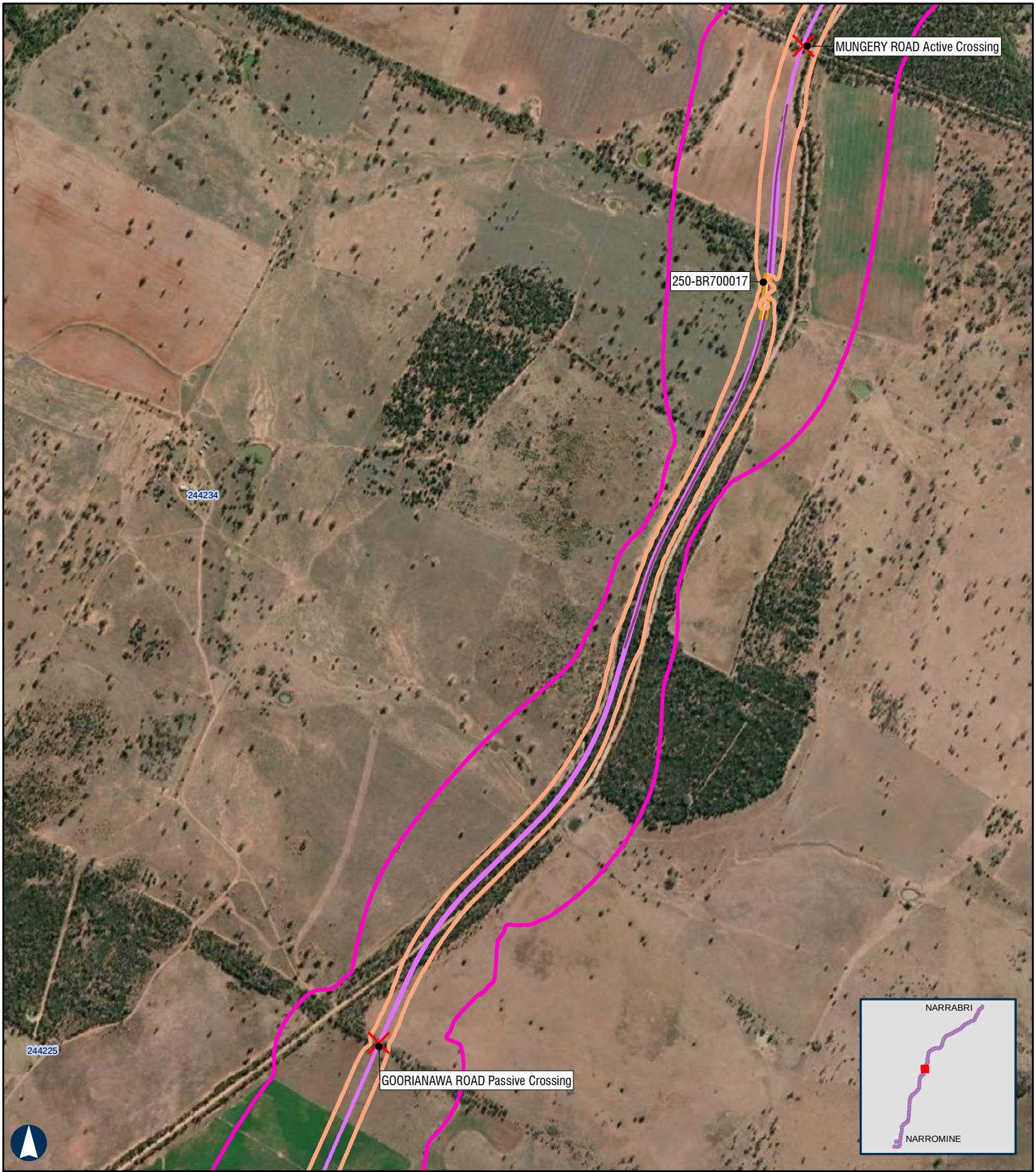
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 37 of 148

500 m

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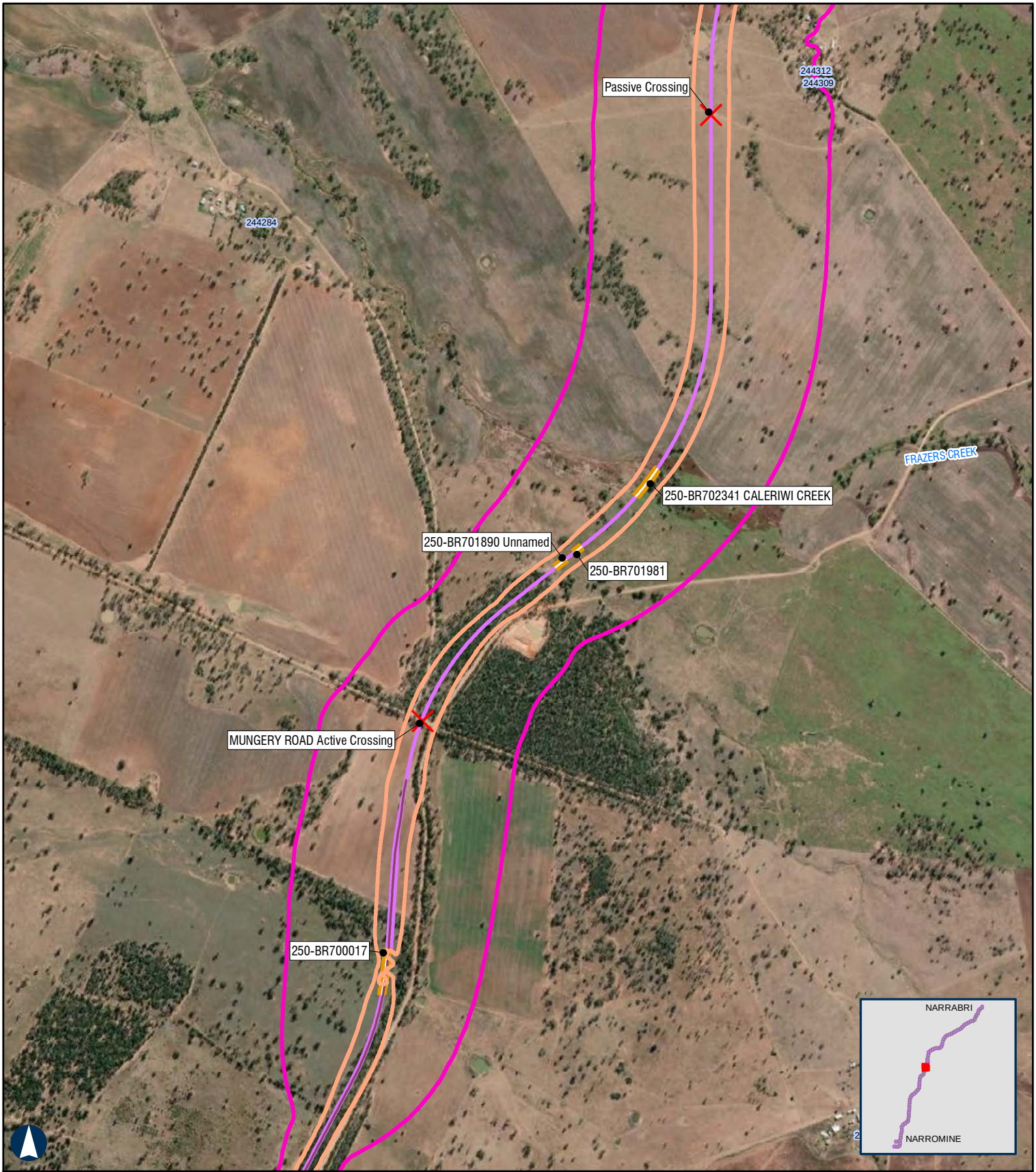
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 38 of 148

500 m

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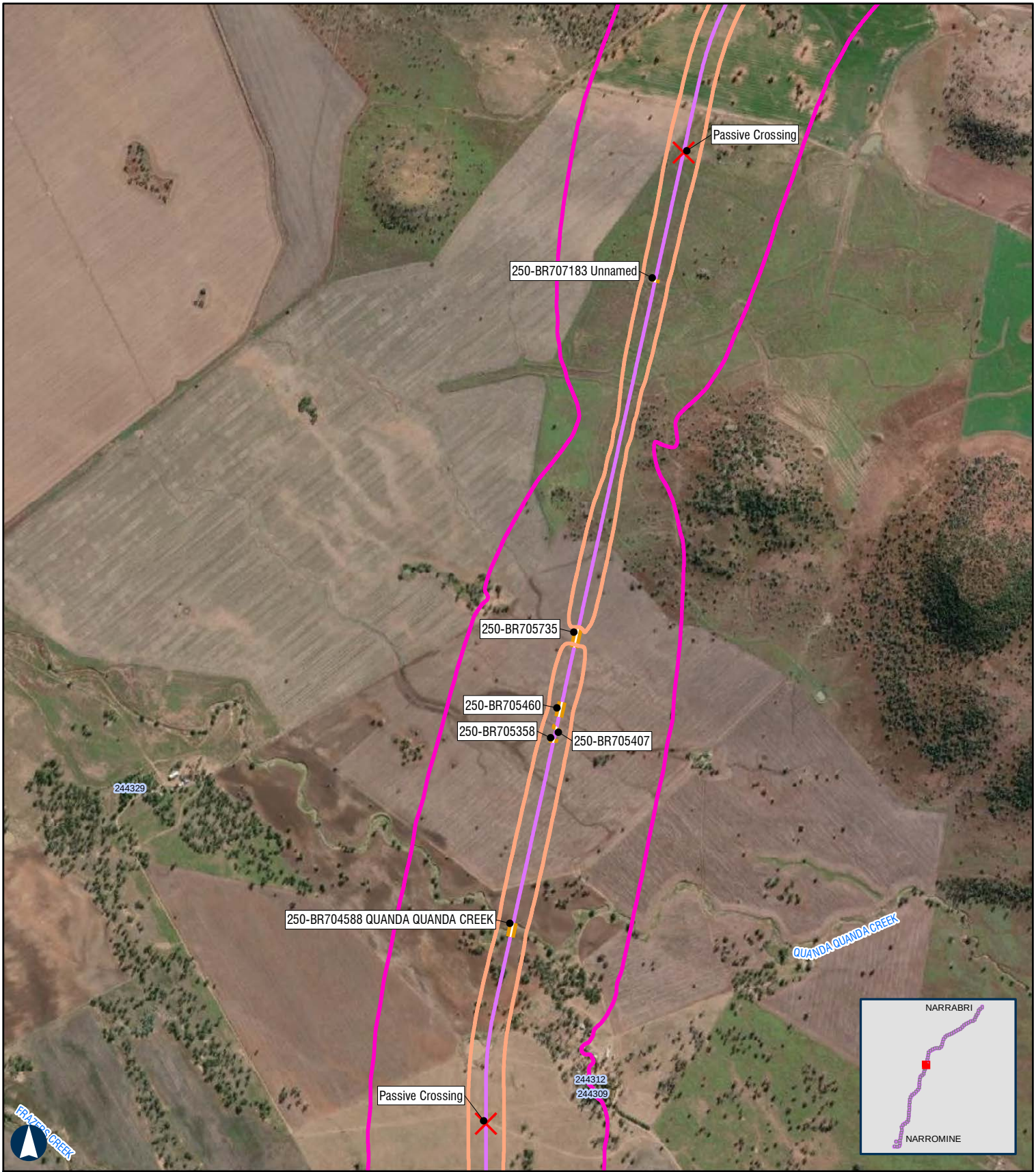
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 39 of 148

500 m

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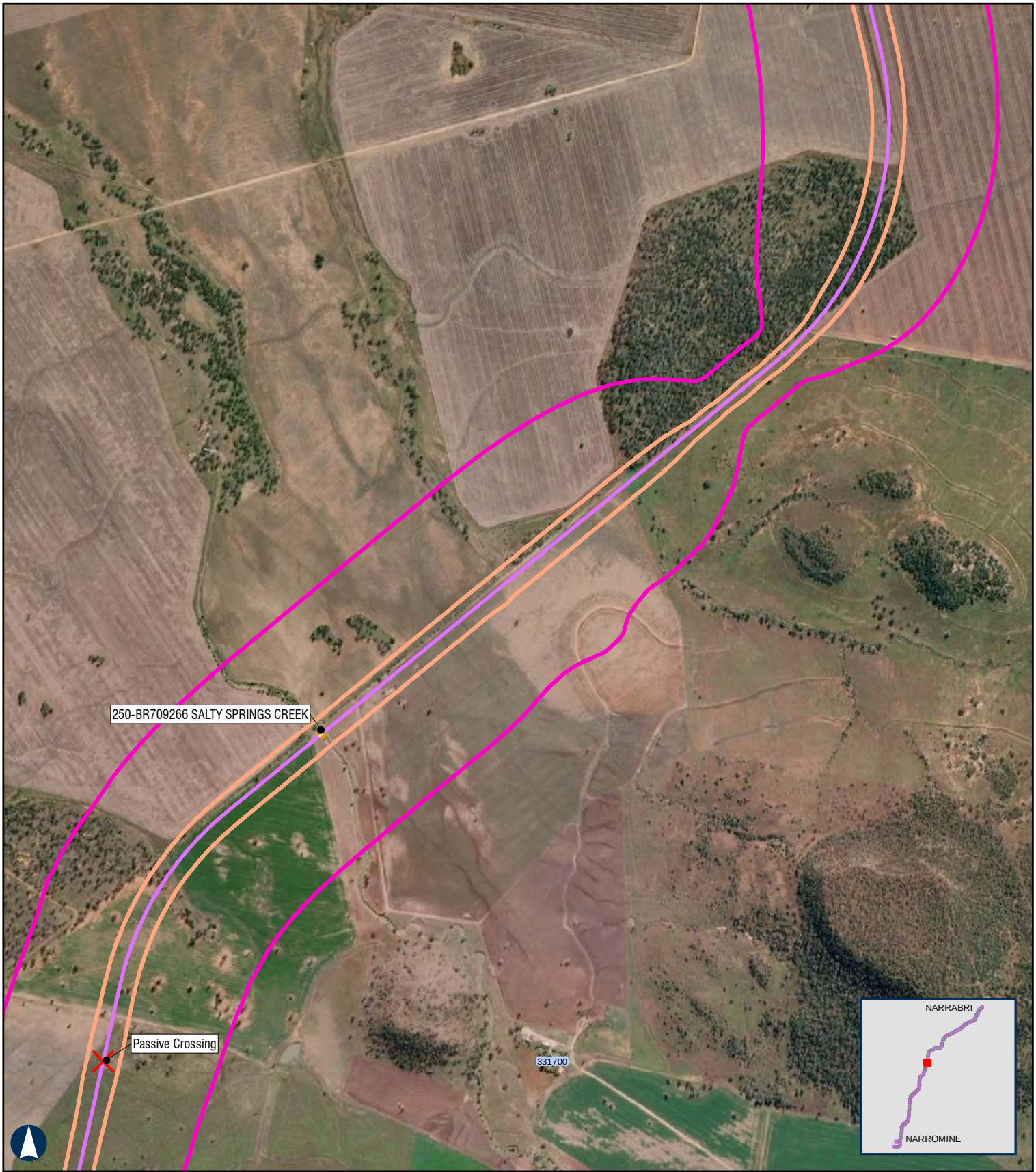
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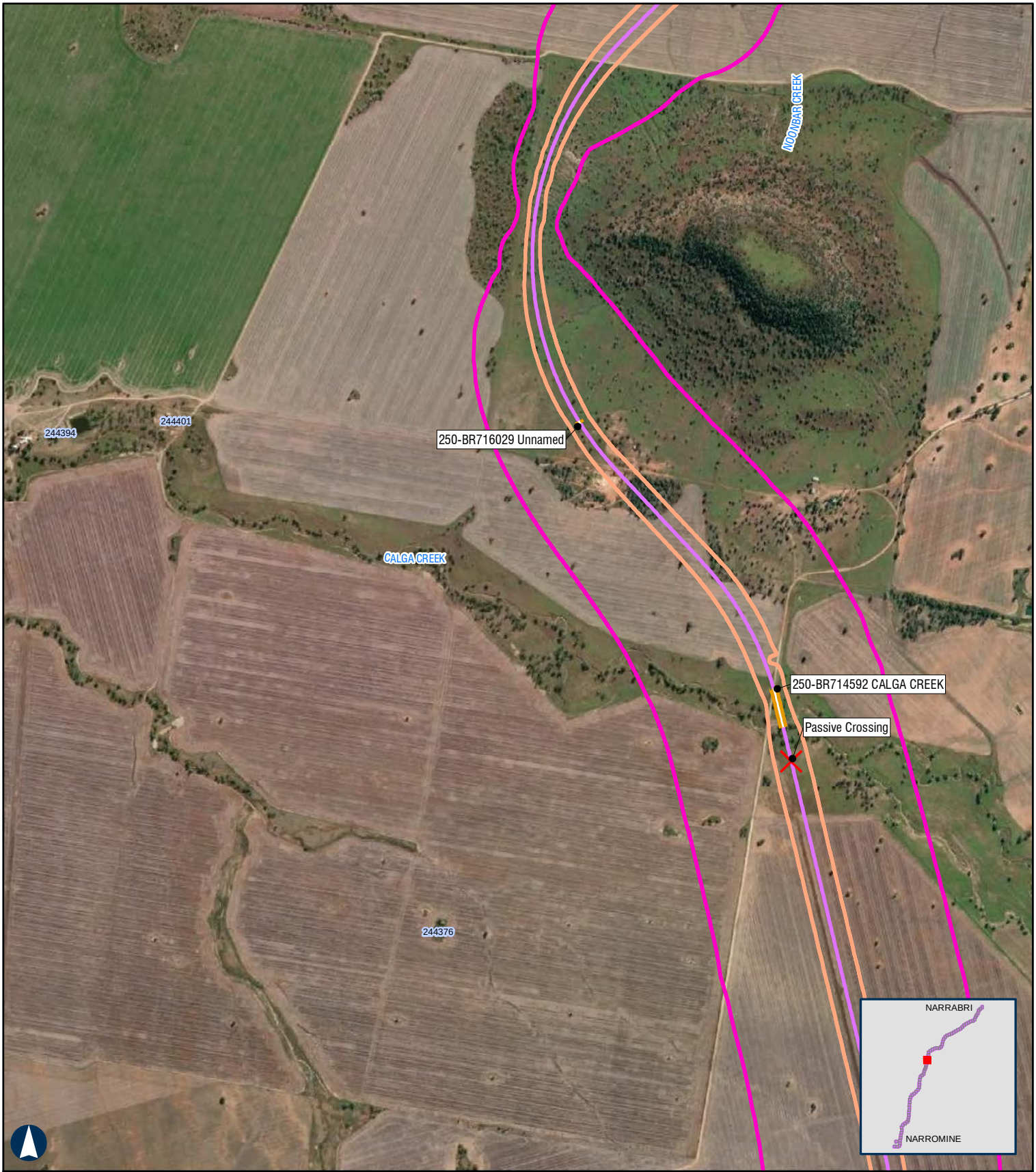
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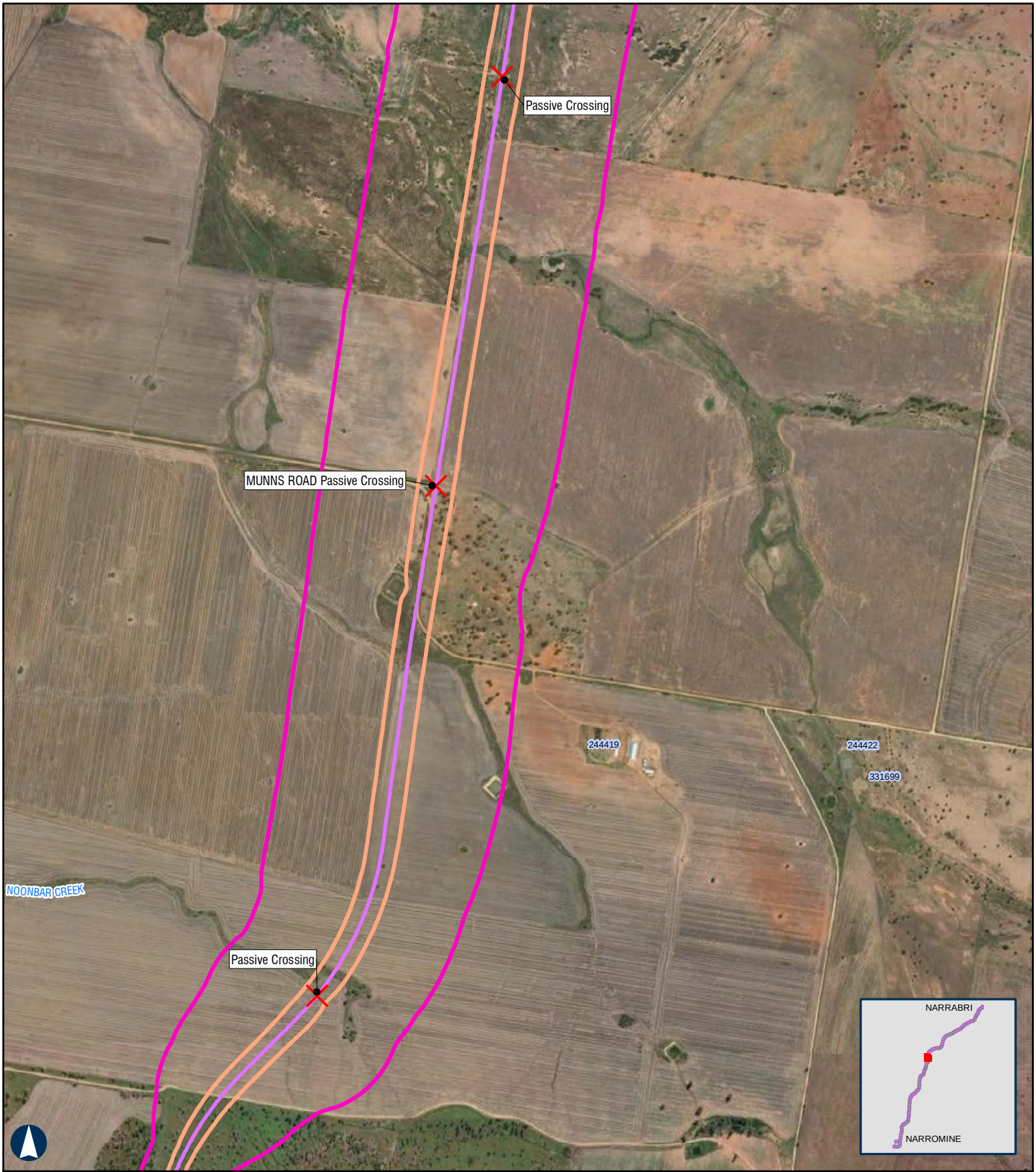
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 42 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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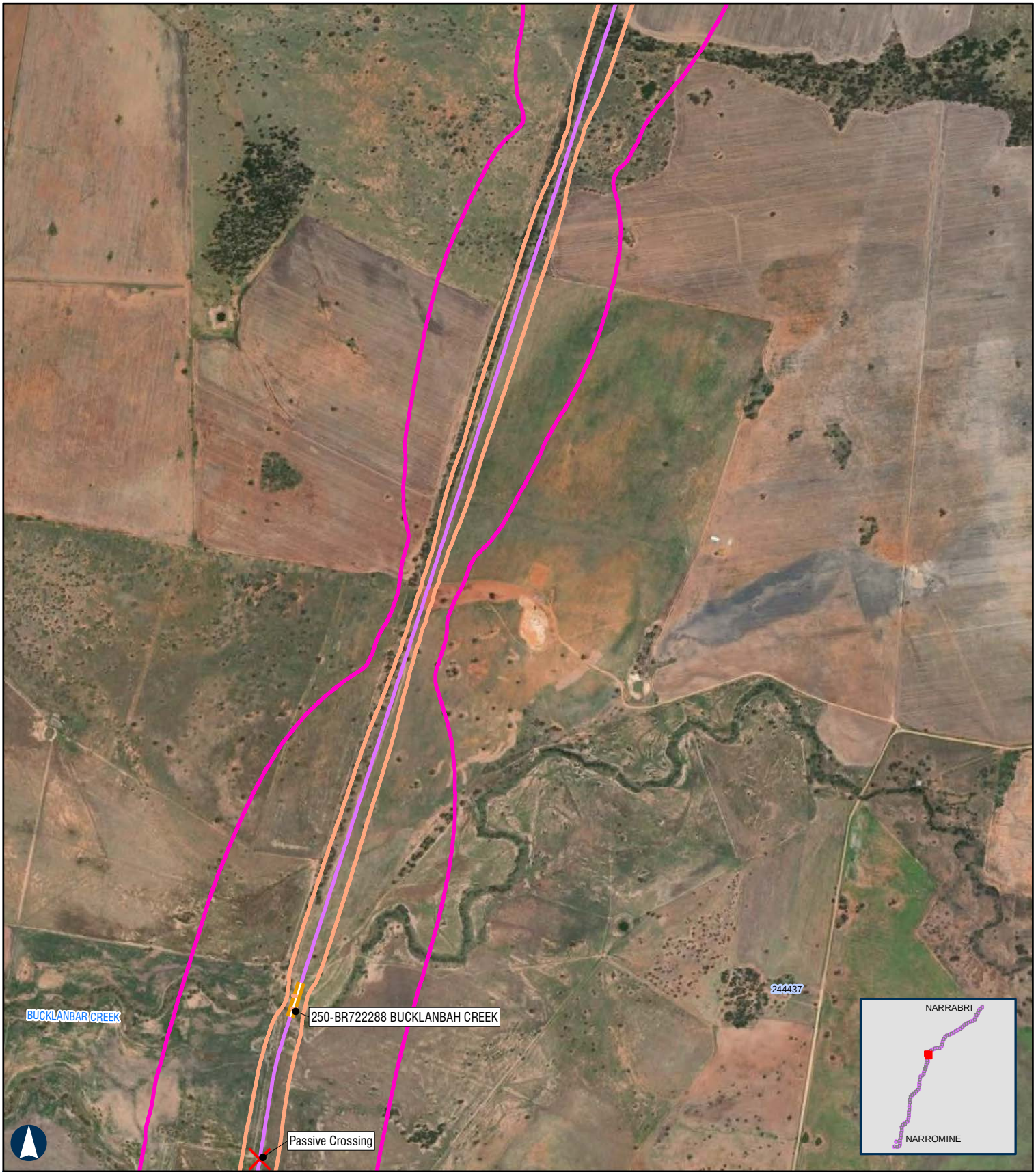
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Year 2026 Daytime Rail Noise Levels

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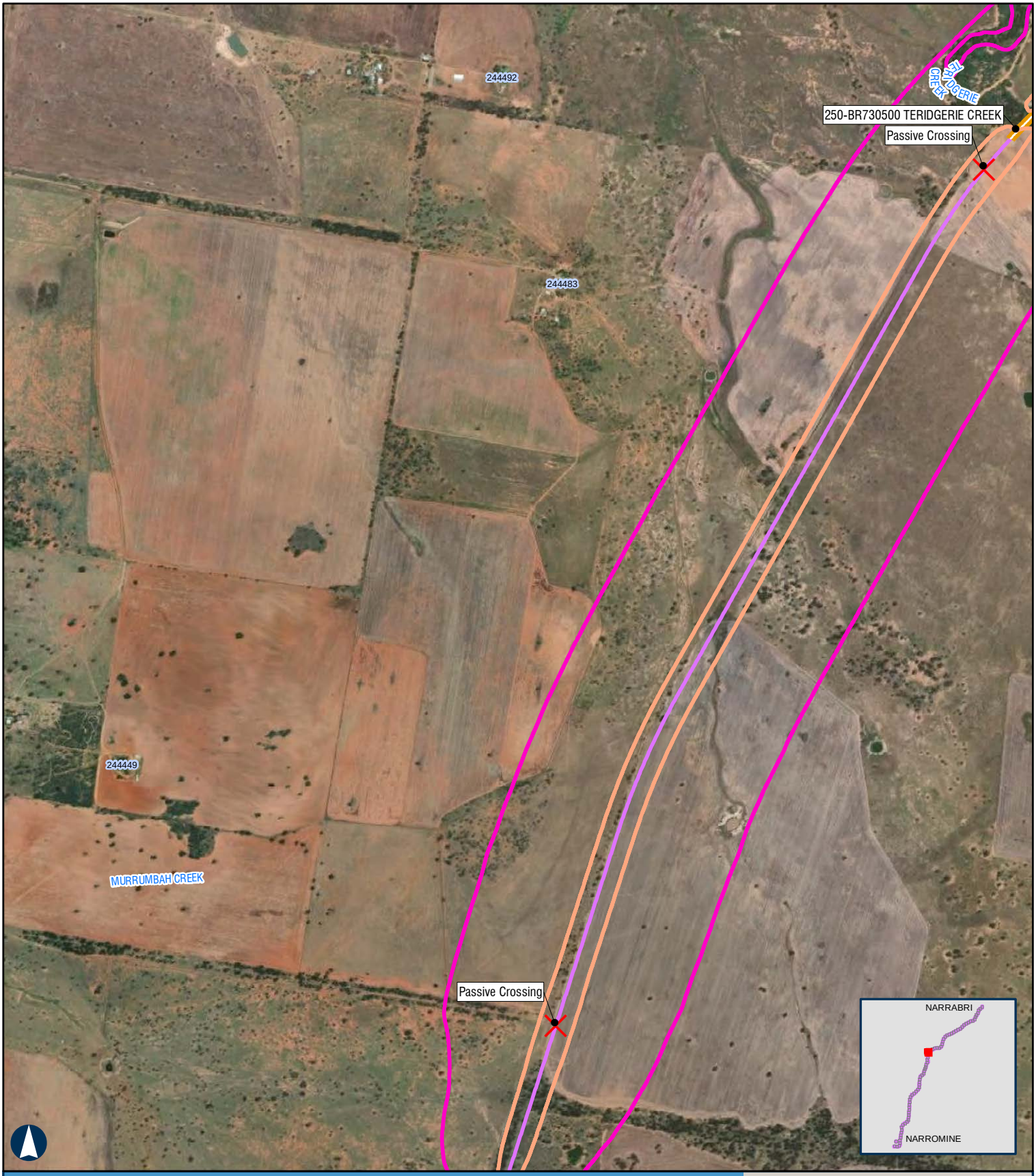
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 44 of 148

500 m

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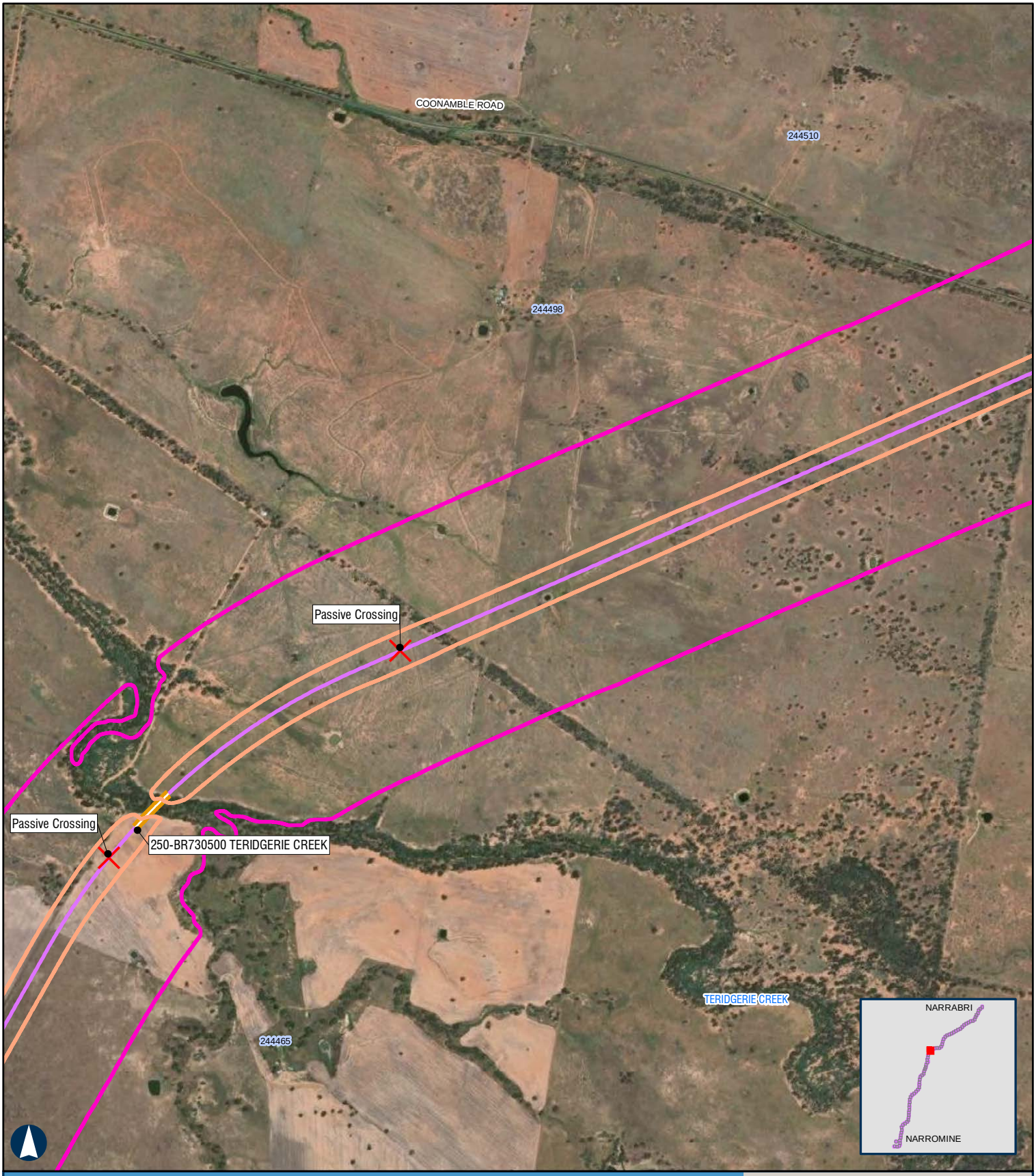
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 45 of 148

500 m

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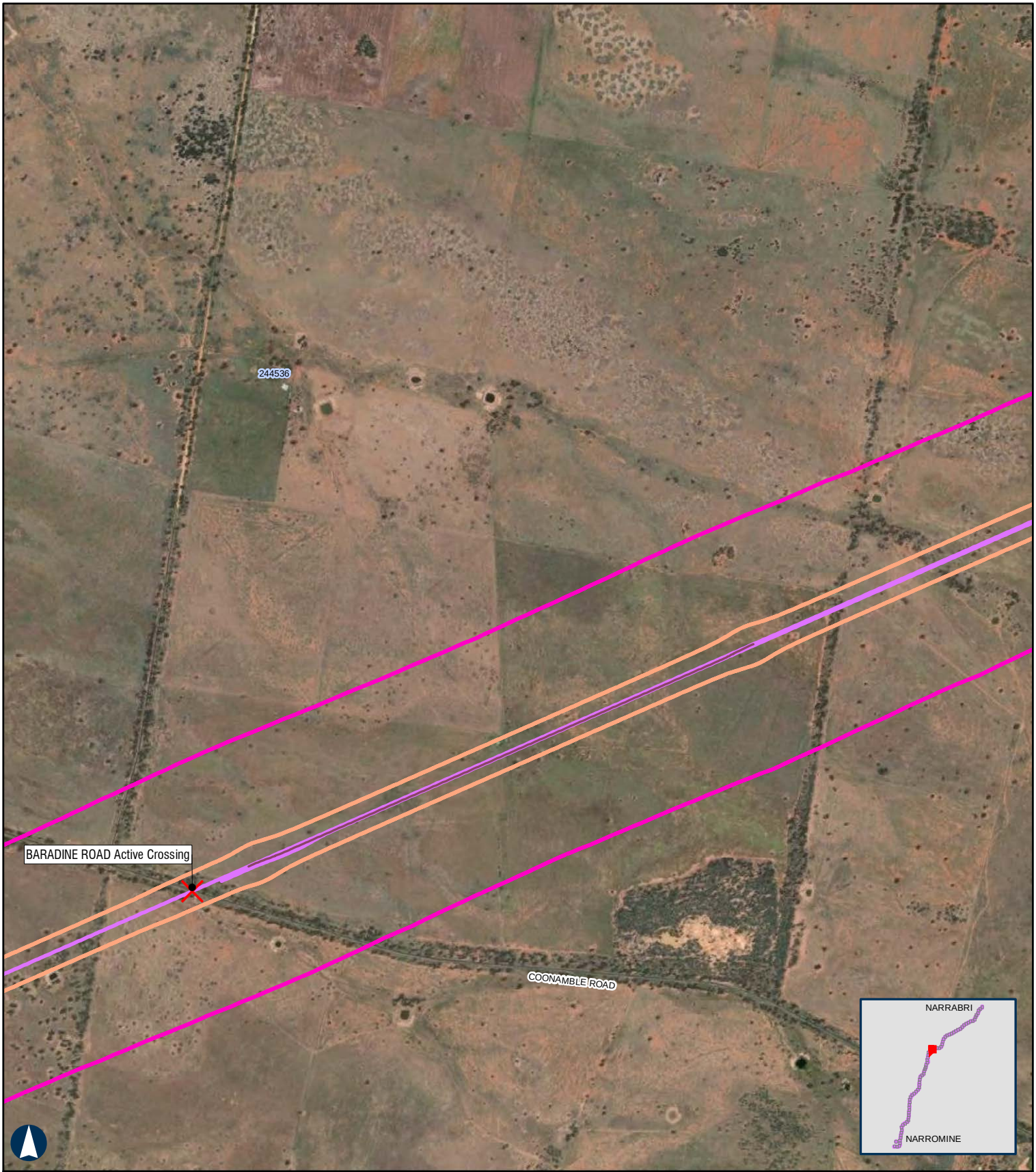
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 46 of 148

500 m

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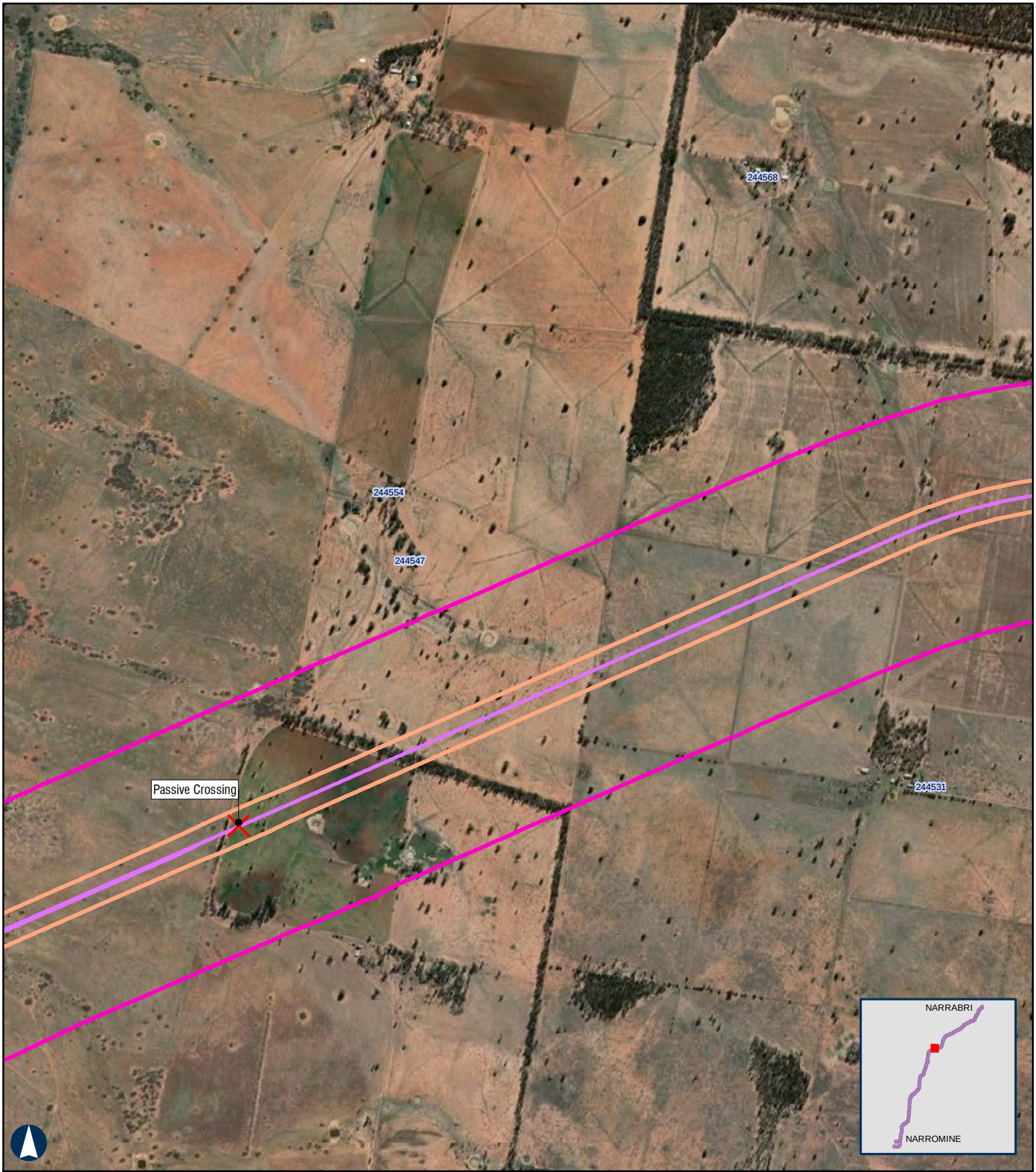
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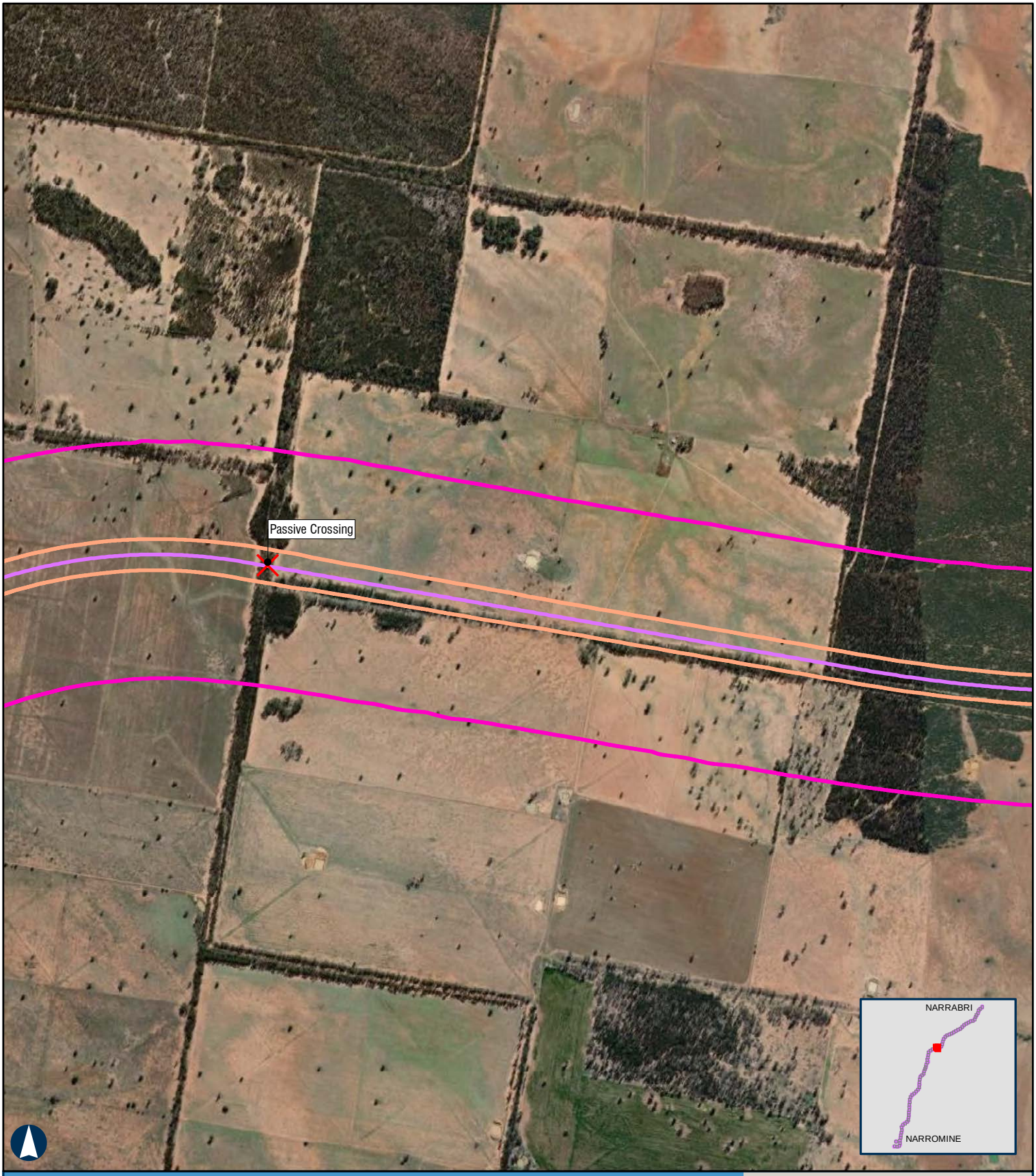
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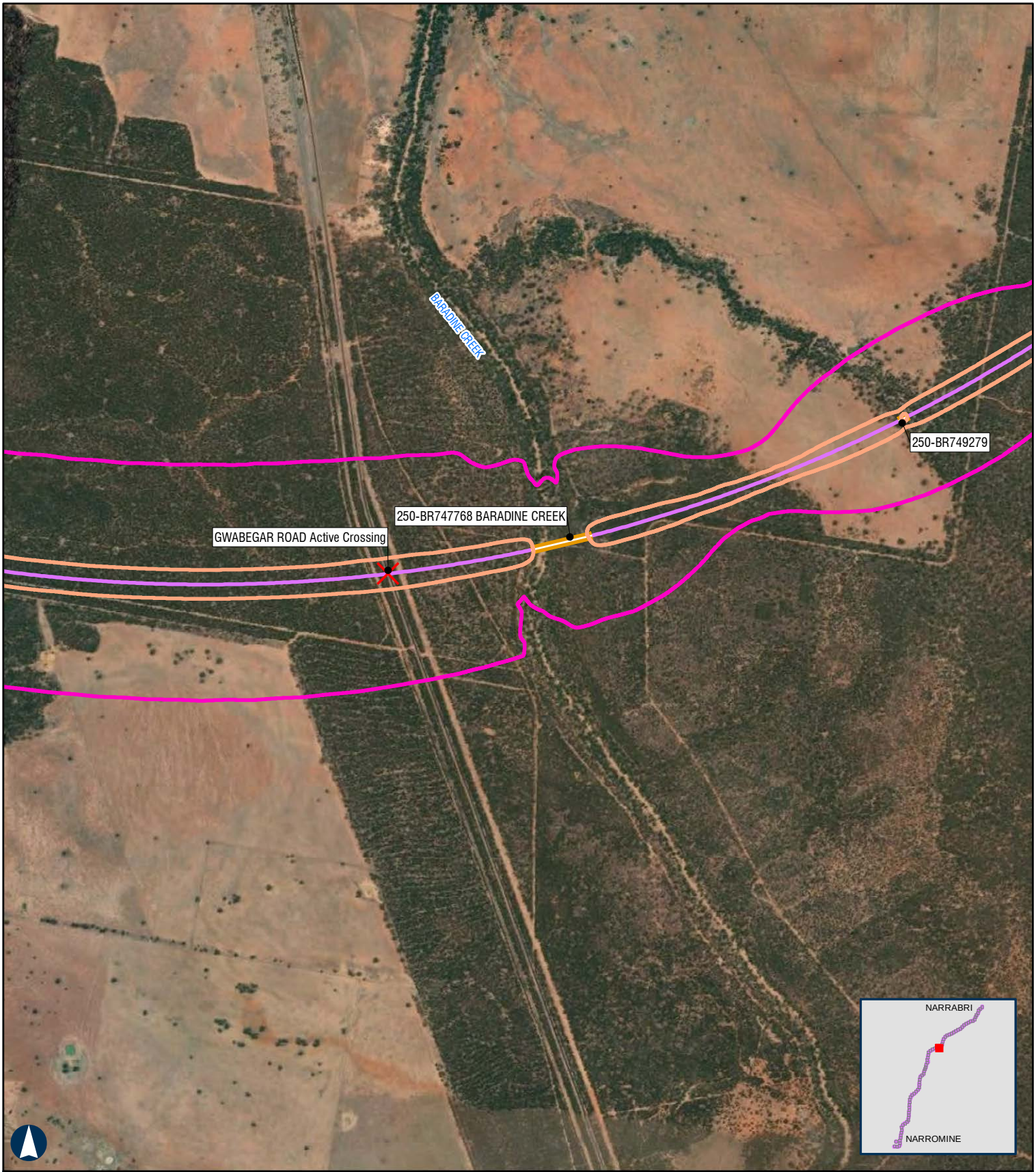
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- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 49 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
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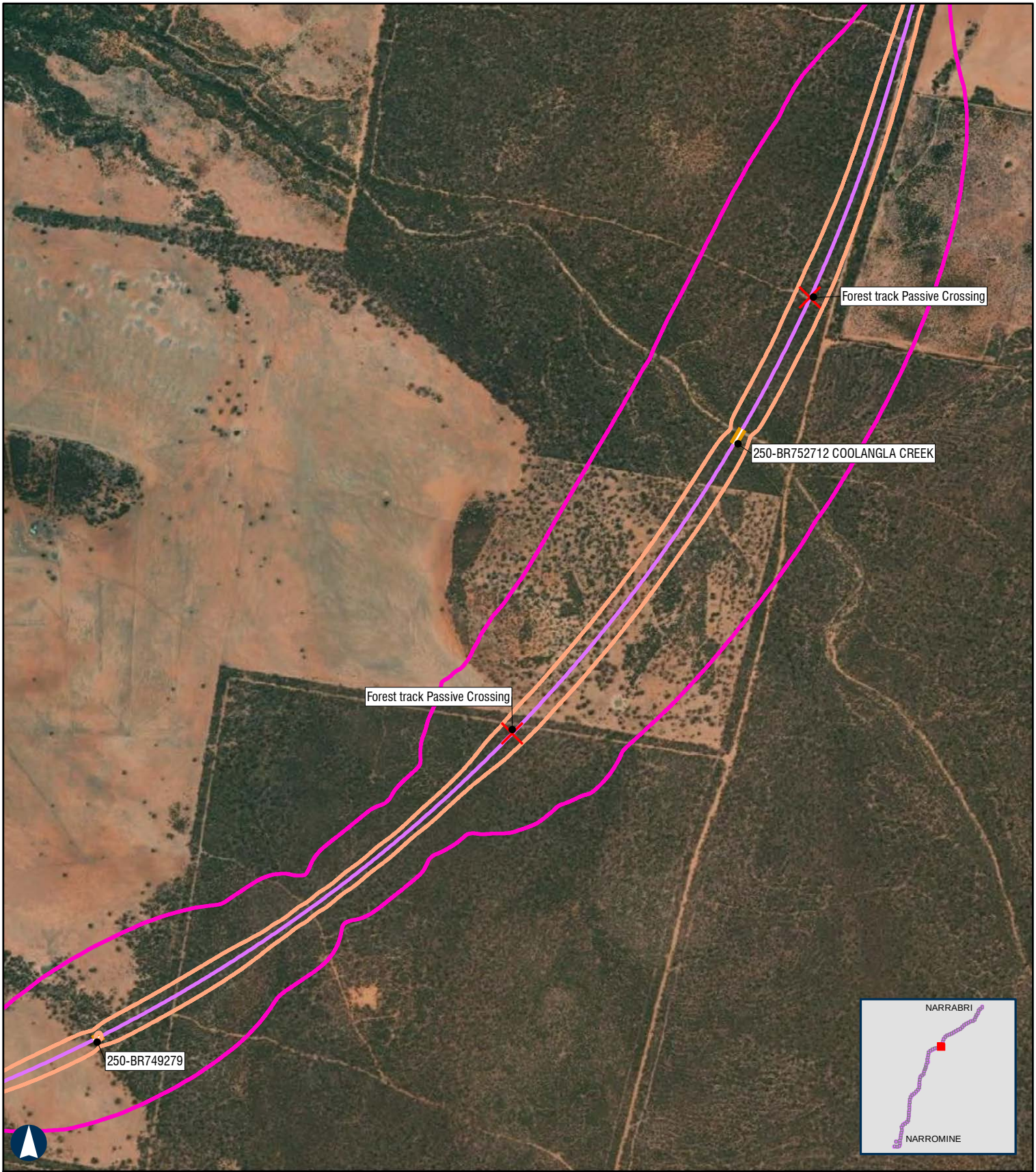
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 50 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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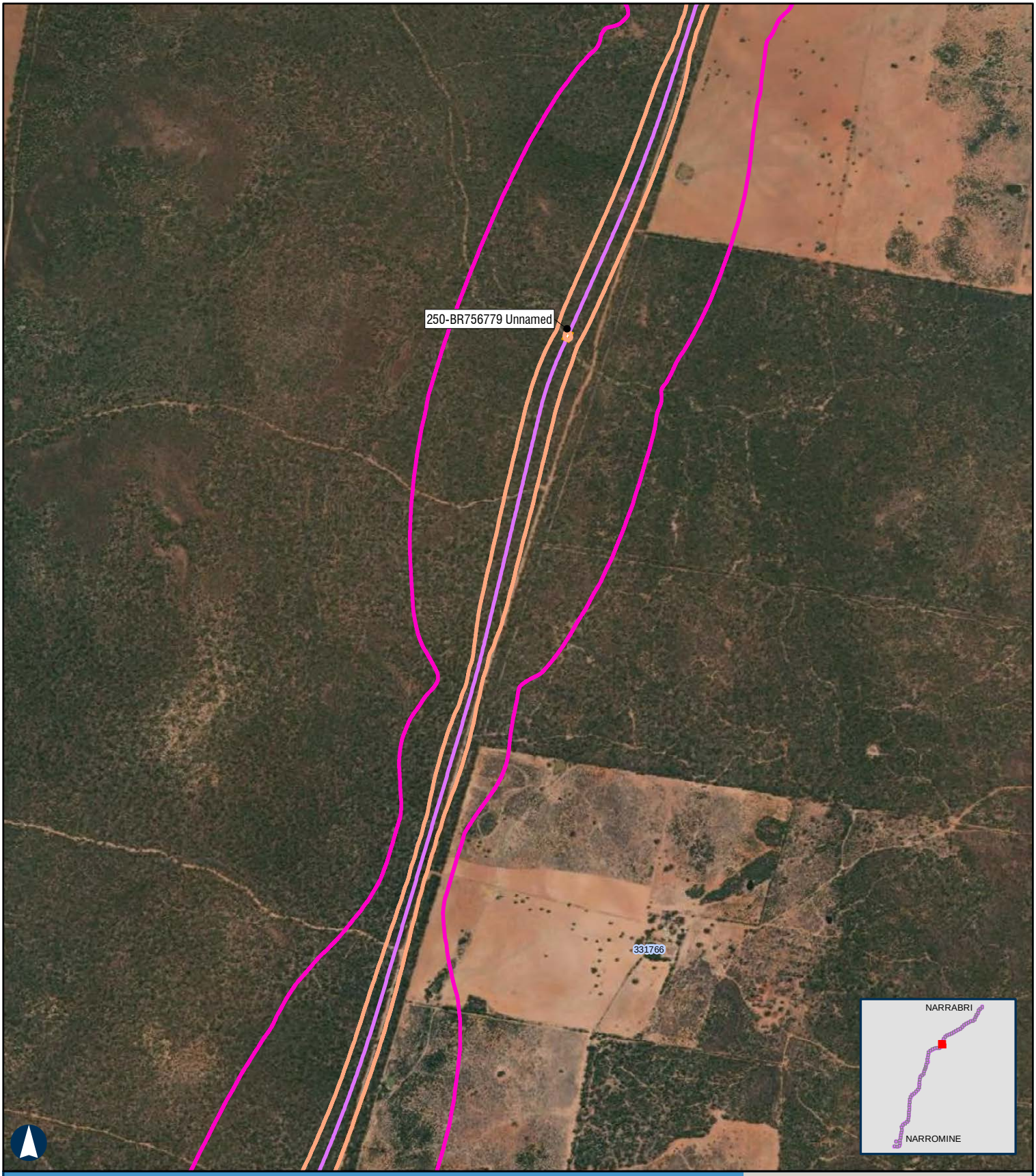
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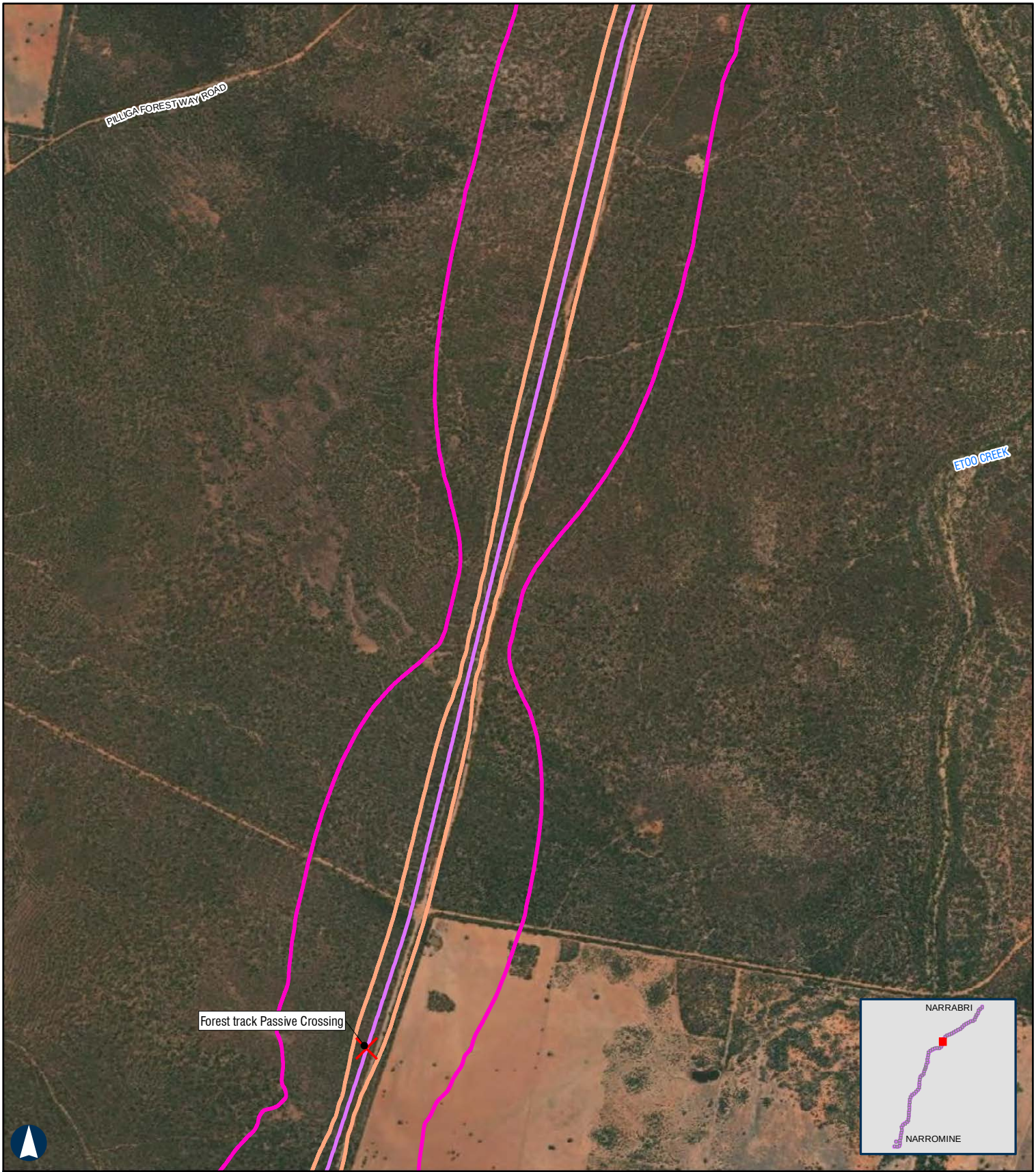
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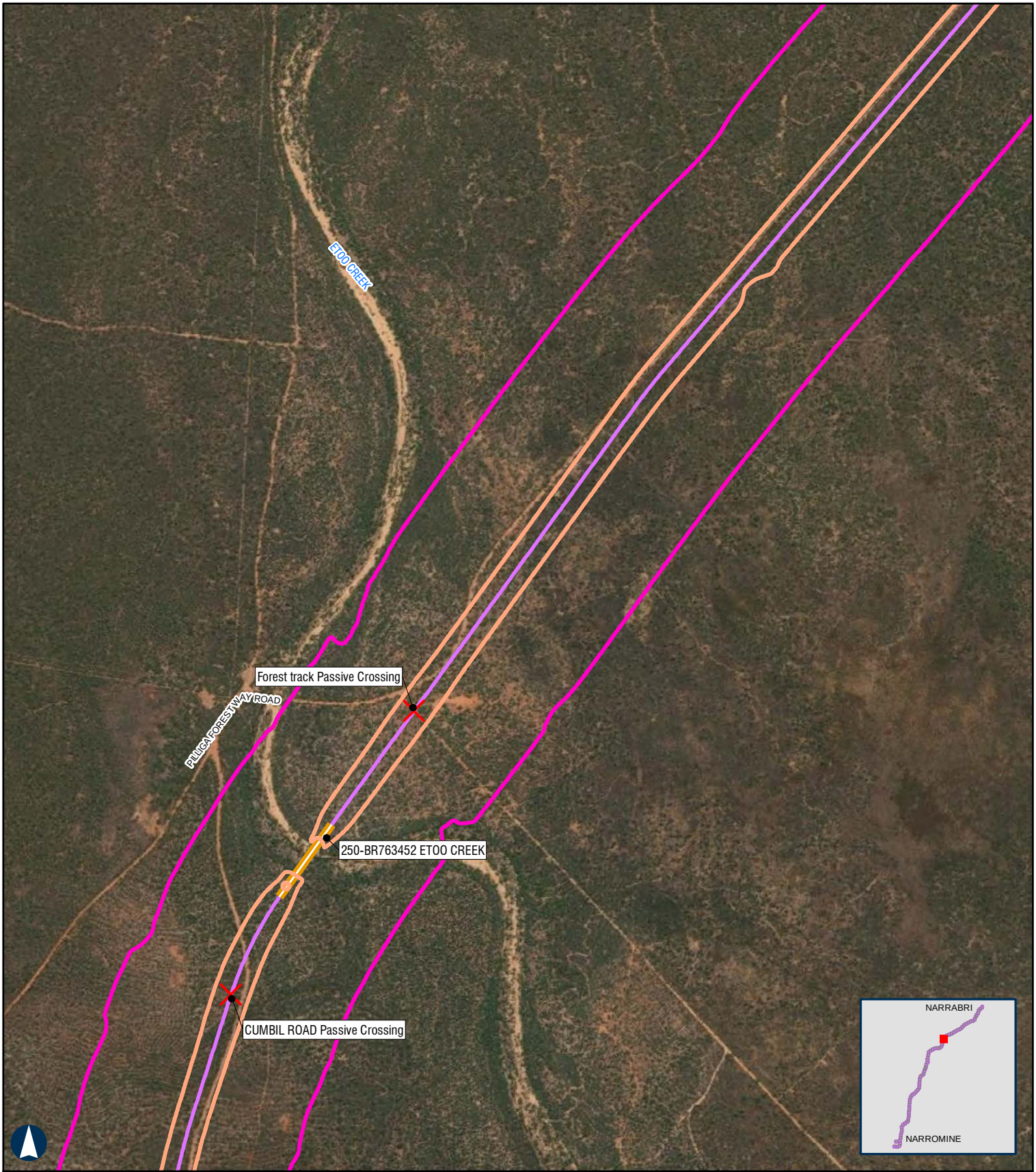
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 53 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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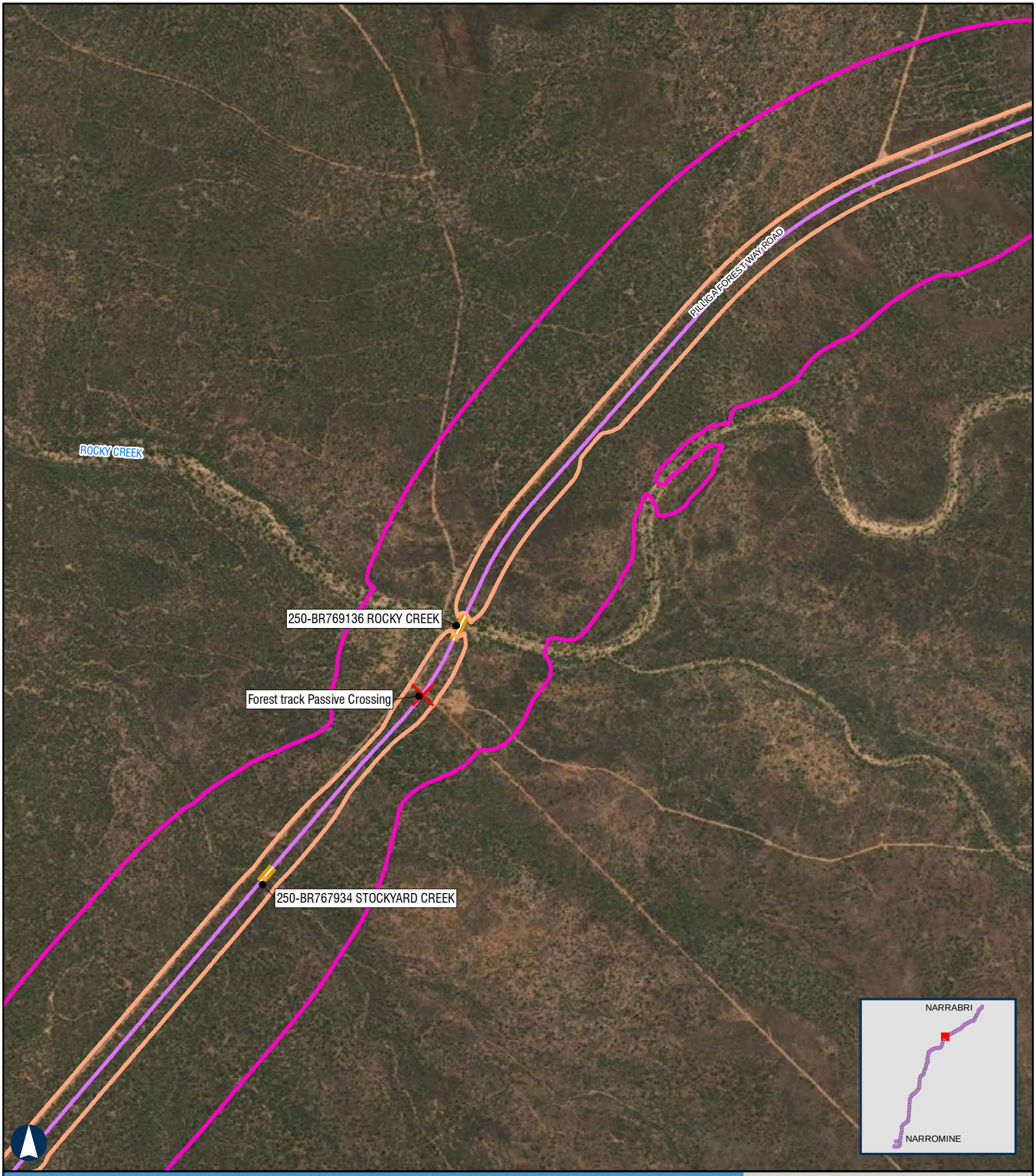
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Year 2026 Daytime Rail Noise Levels

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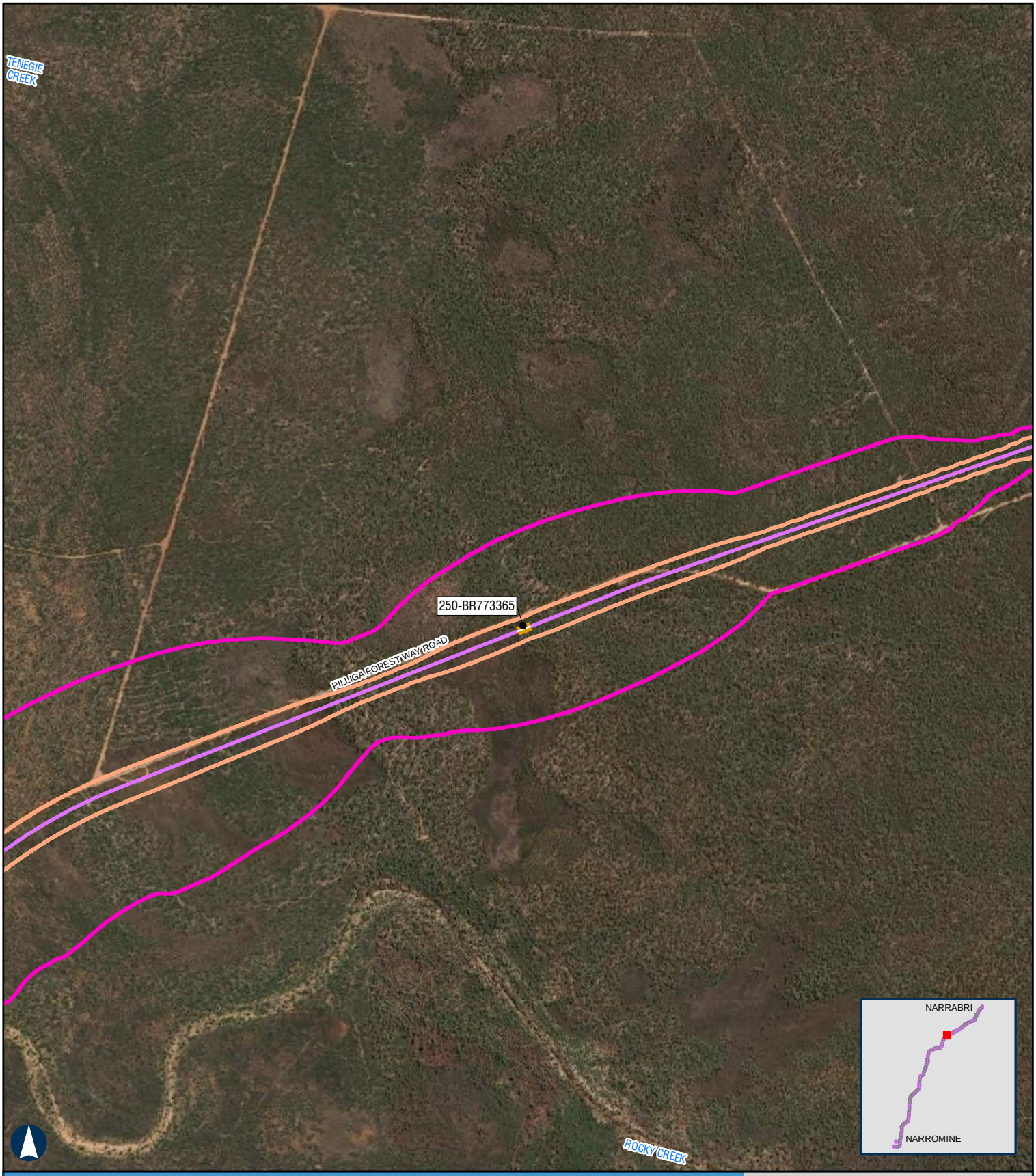
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 55 of 148

500 m

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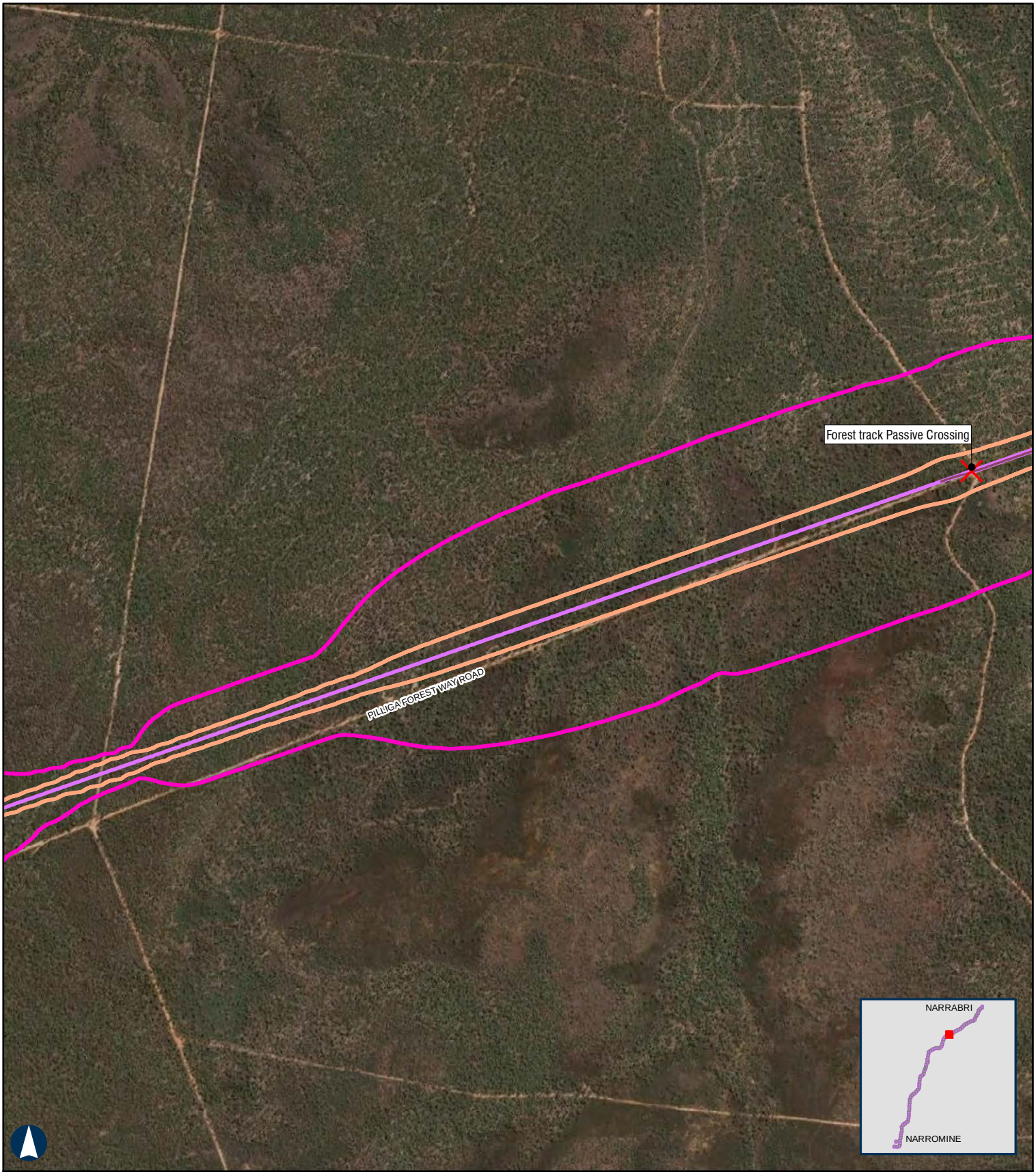
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Year 2026 Daytime Rail Noise Levels

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- Noise Assessment Area – Upgrading Existing Railway

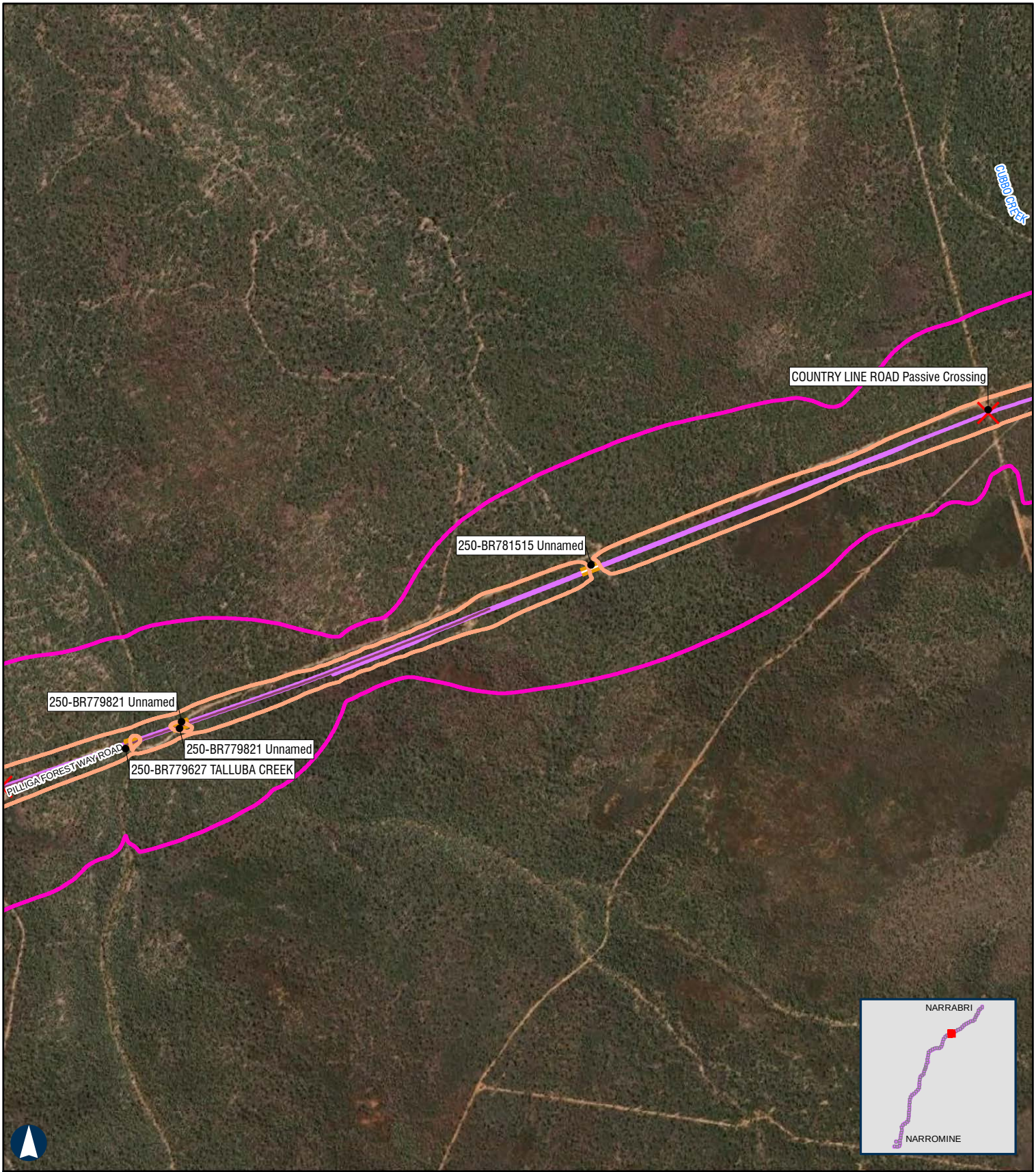
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 57 of 148

500 m

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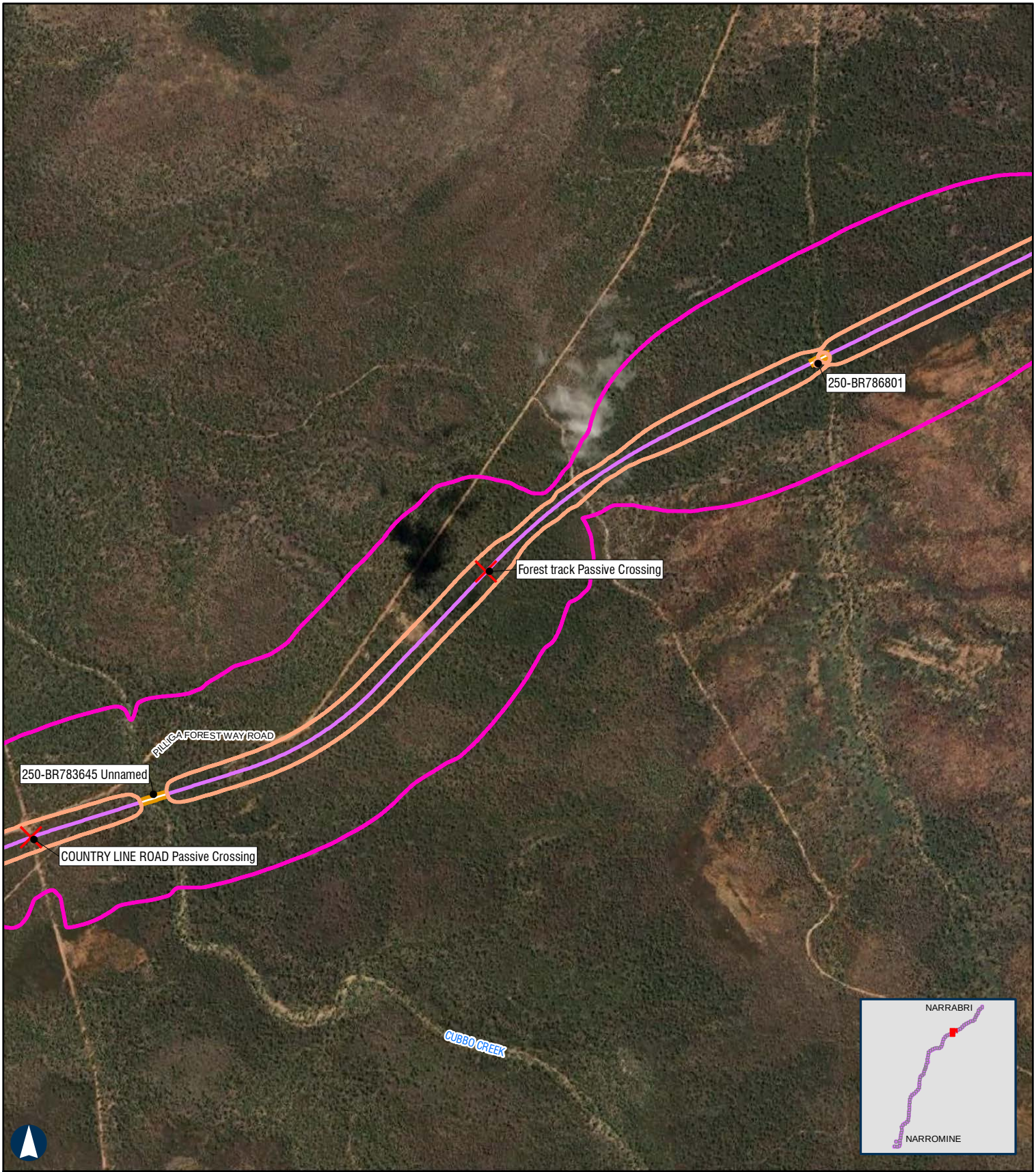
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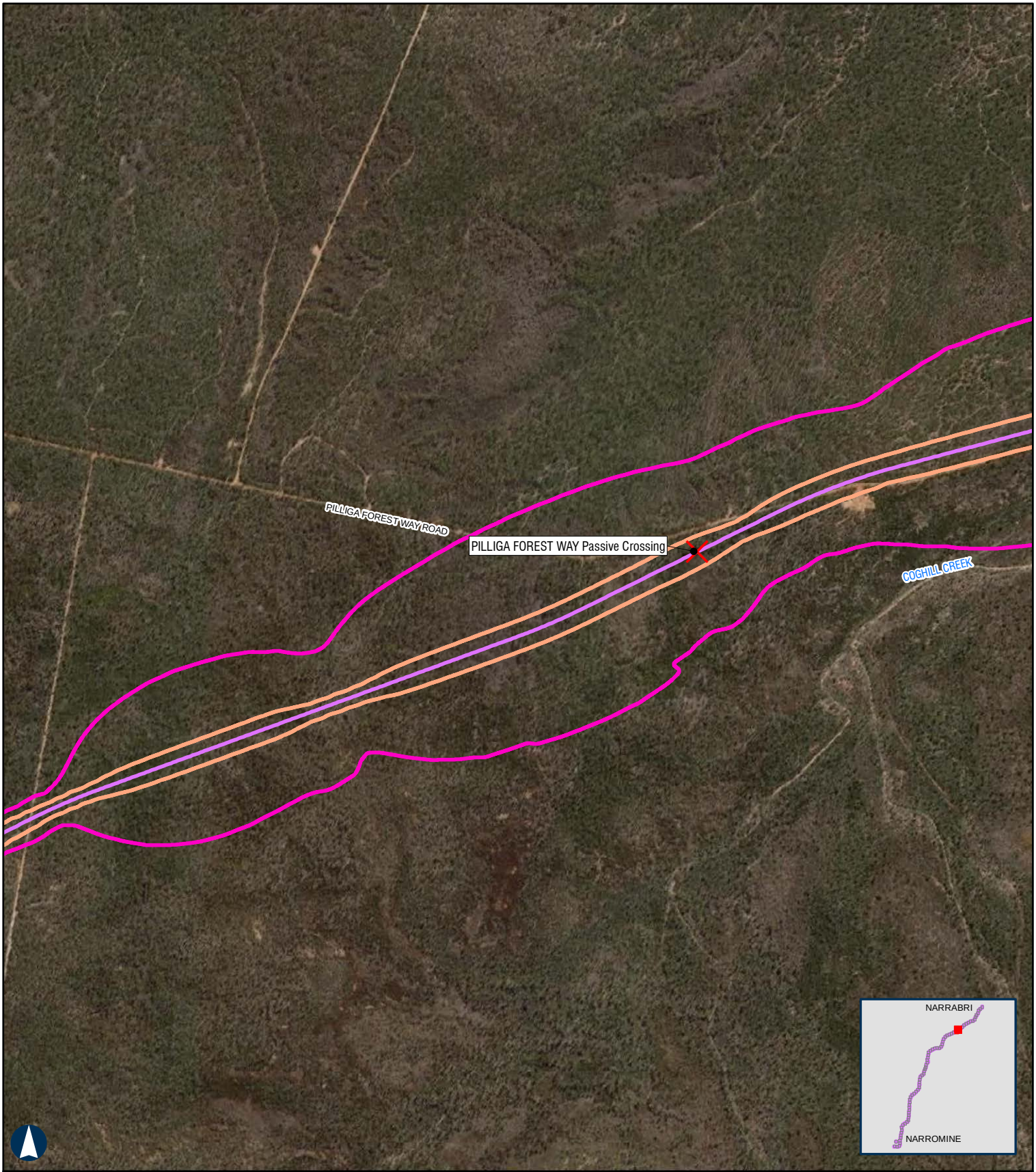
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 60 of 148

500 m

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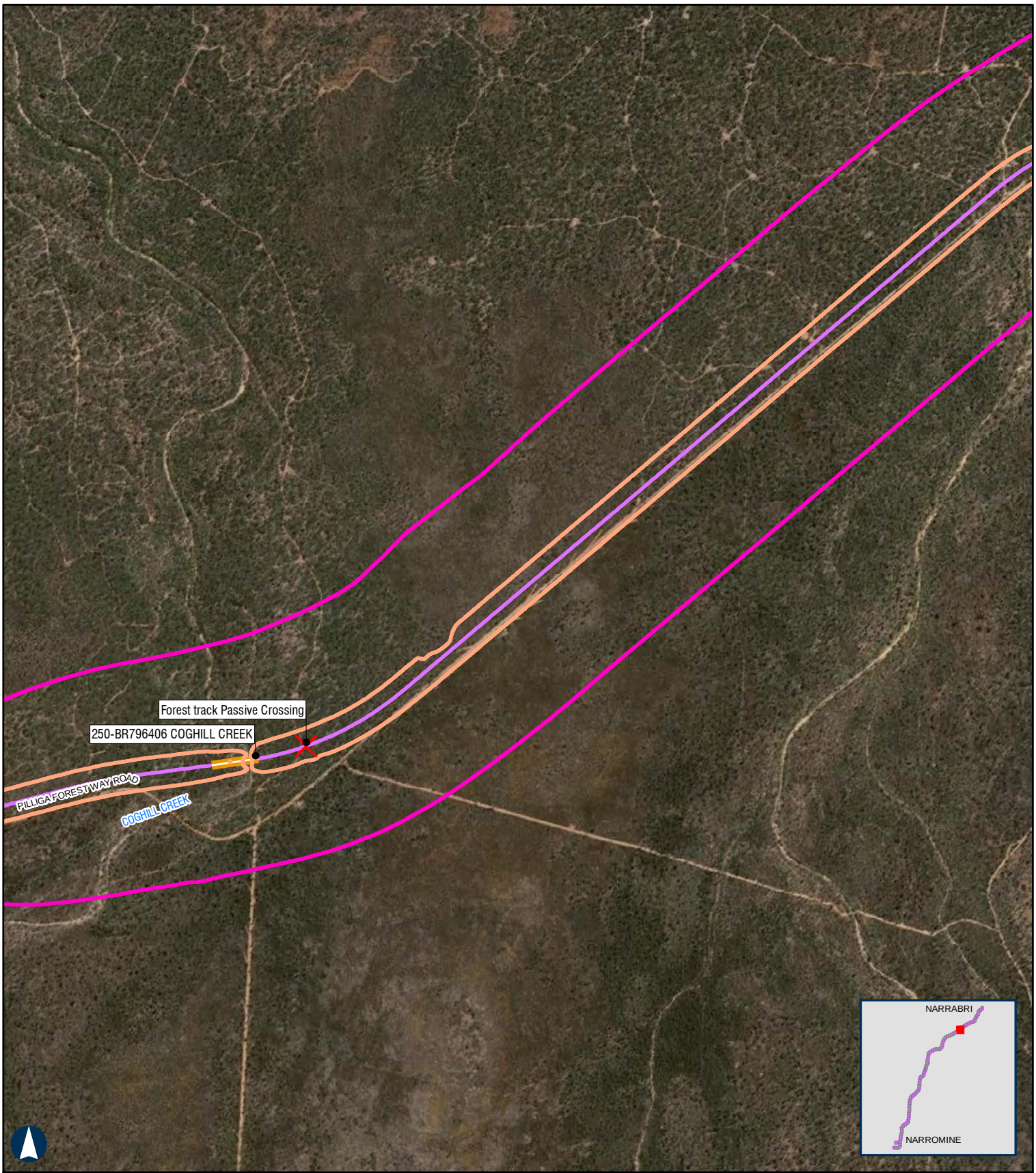
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 61 of 148

500 m

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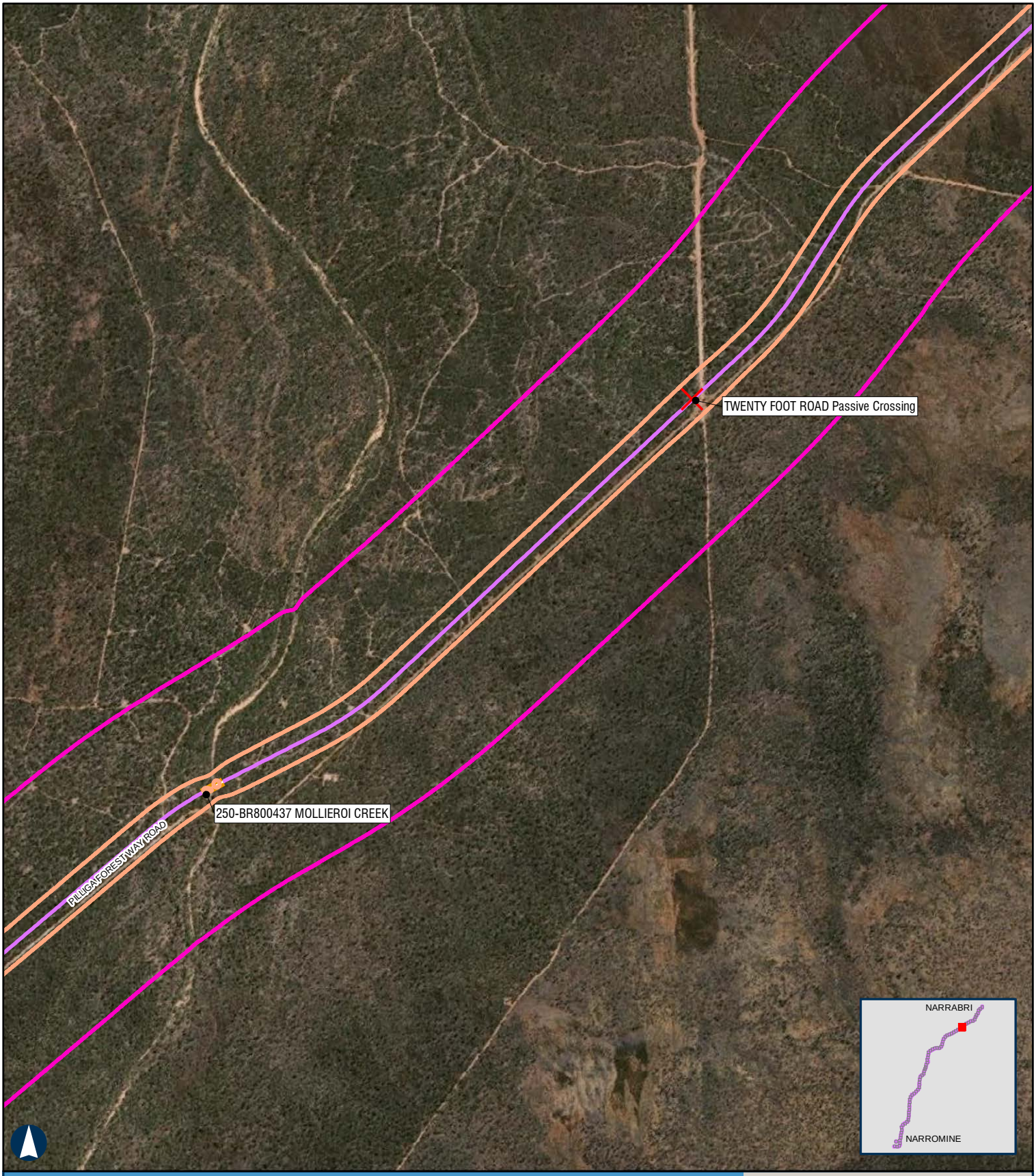
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 62 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
- Daytime noise criteria LAeq15hr 65dBA upgrading existing rail corridor
- Daytime noise criteria LA max 80dBA new rail corridor
- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 63 of 148

500 m

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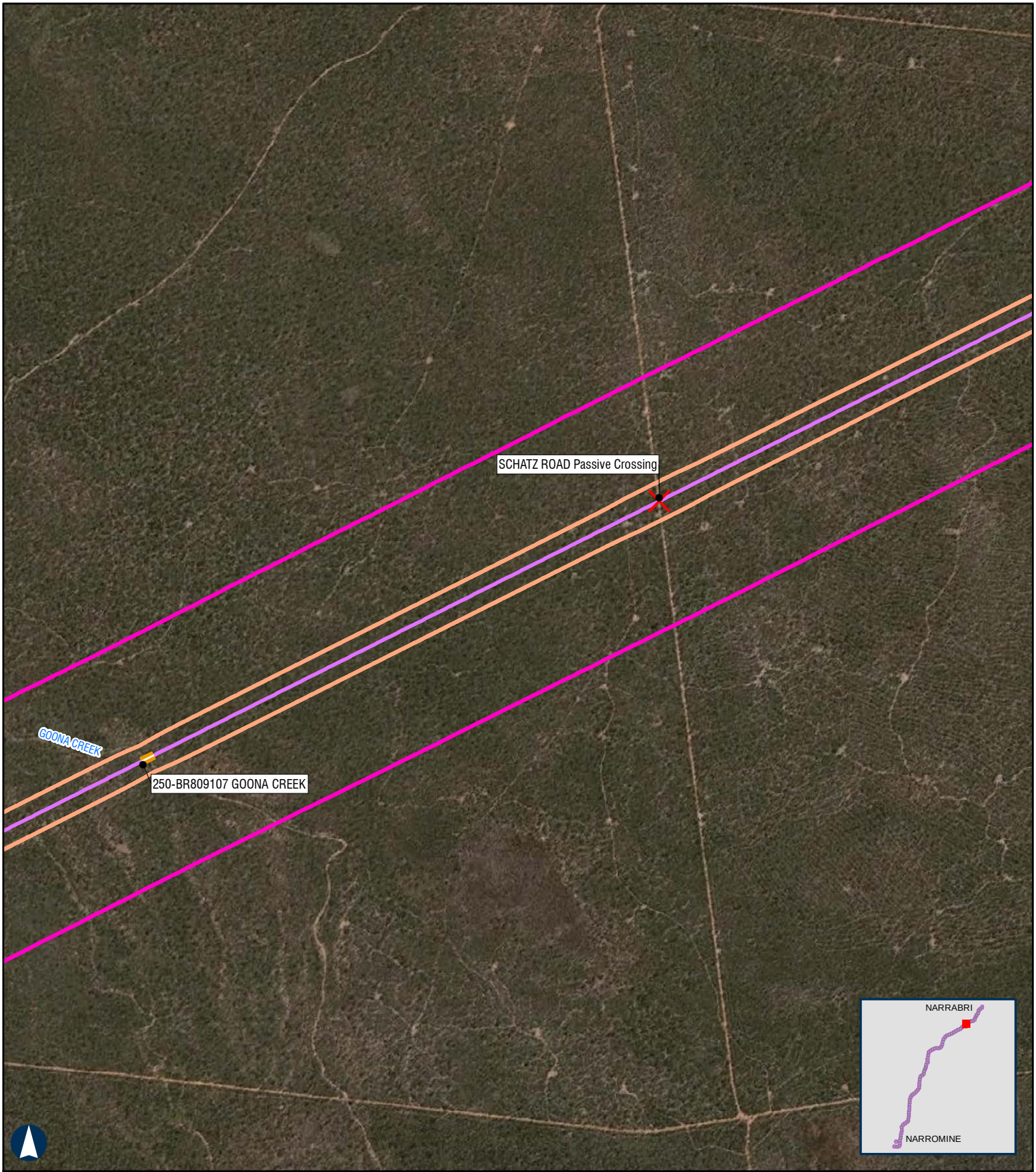
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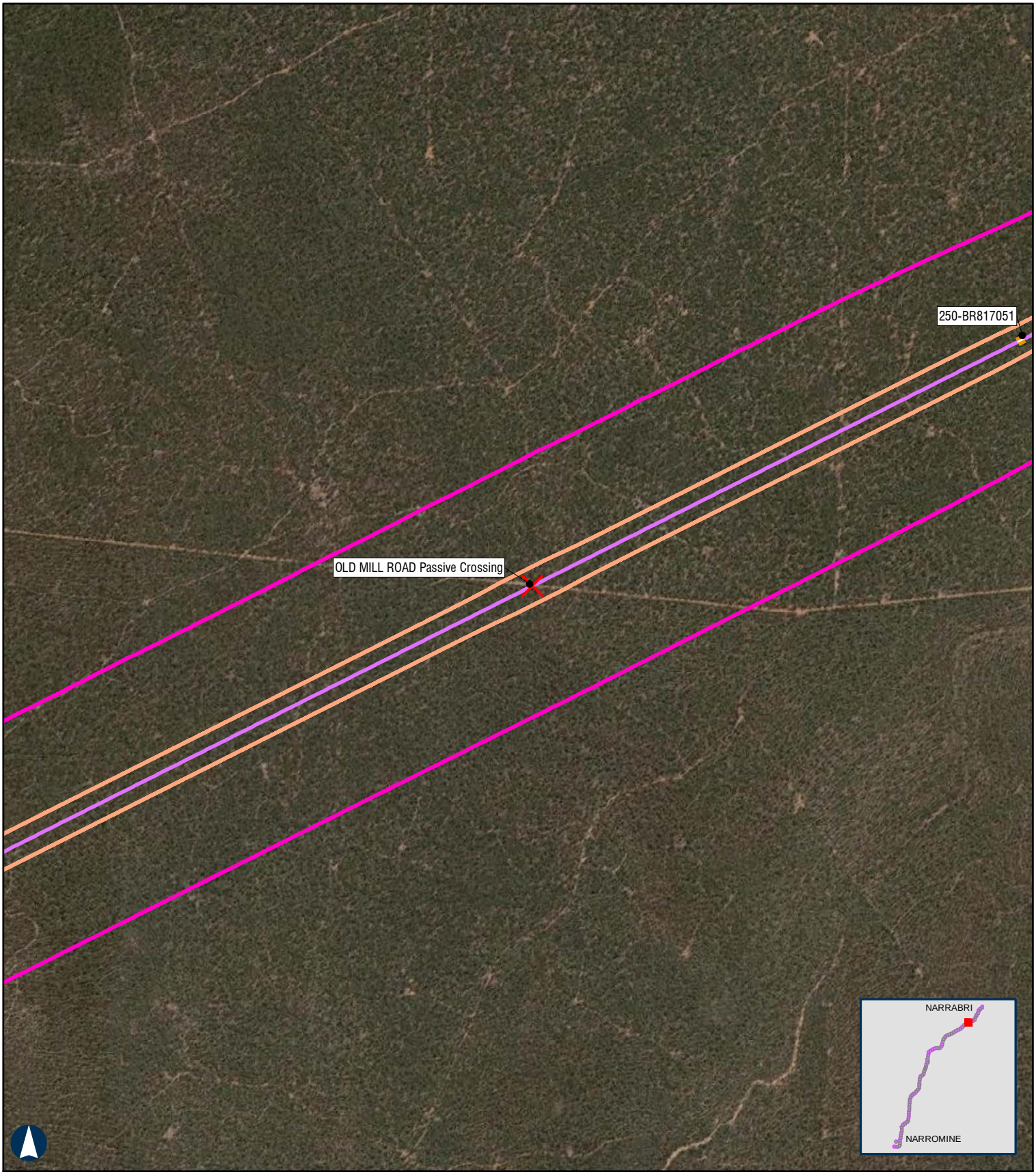
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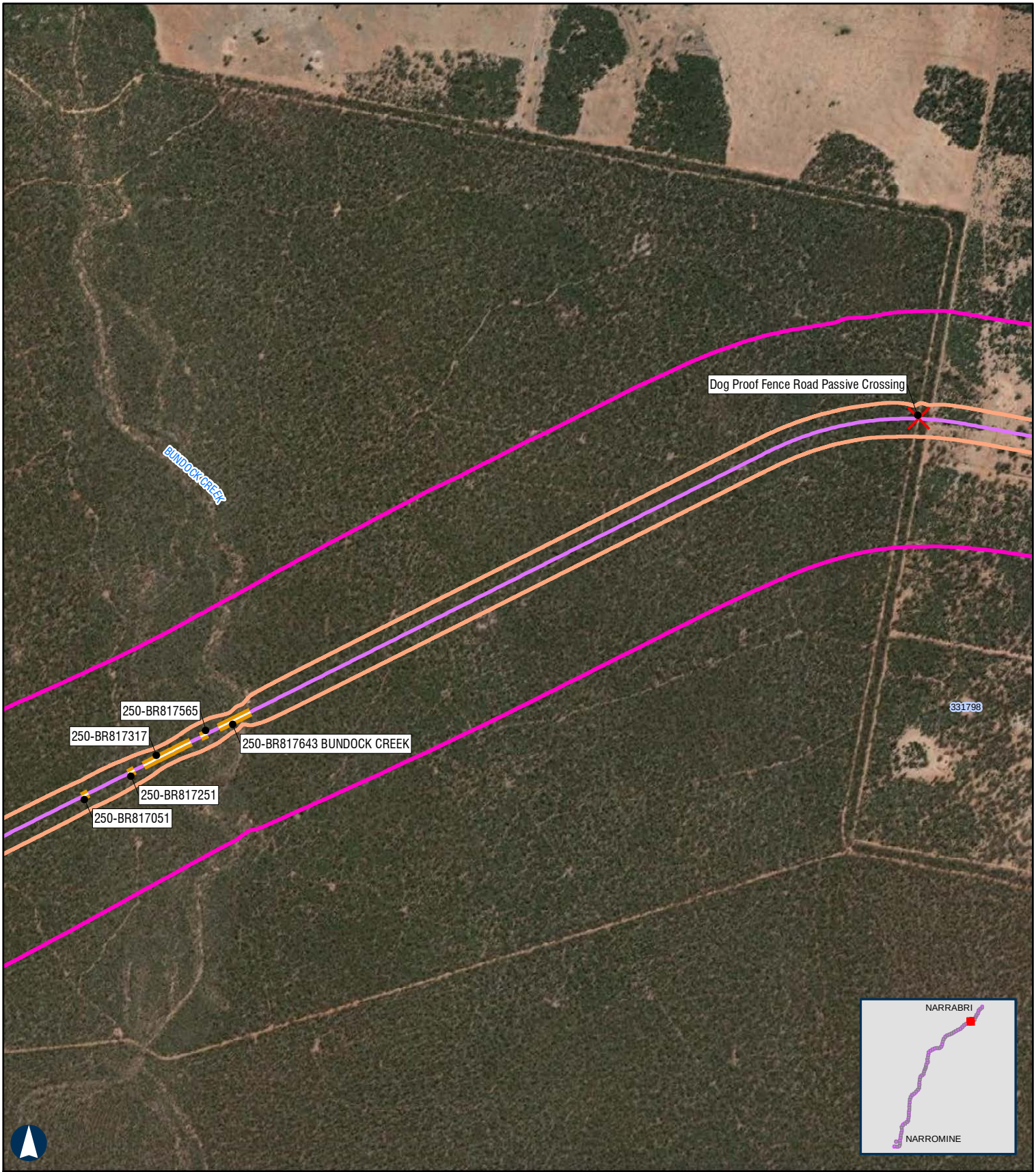
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 66 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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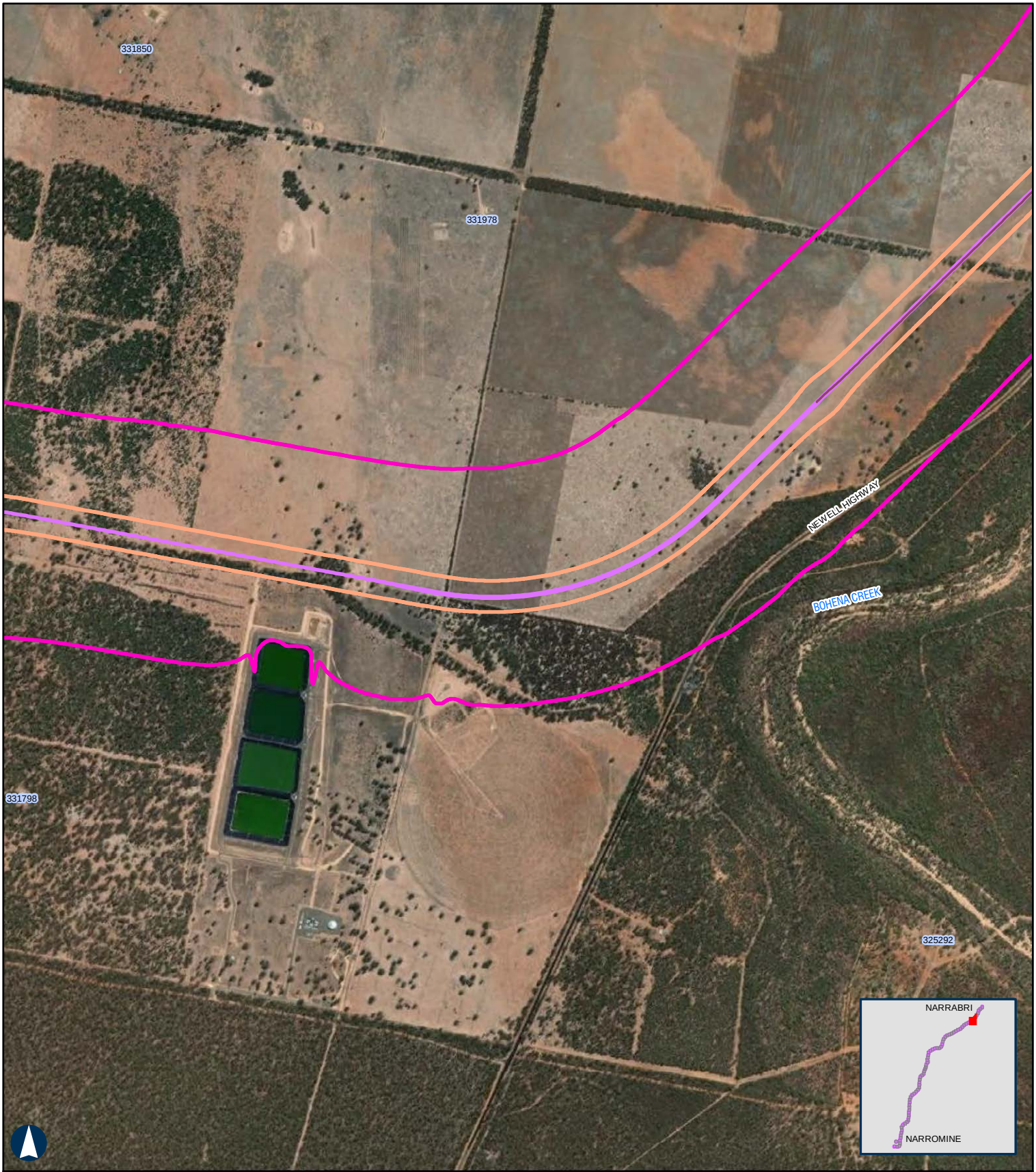
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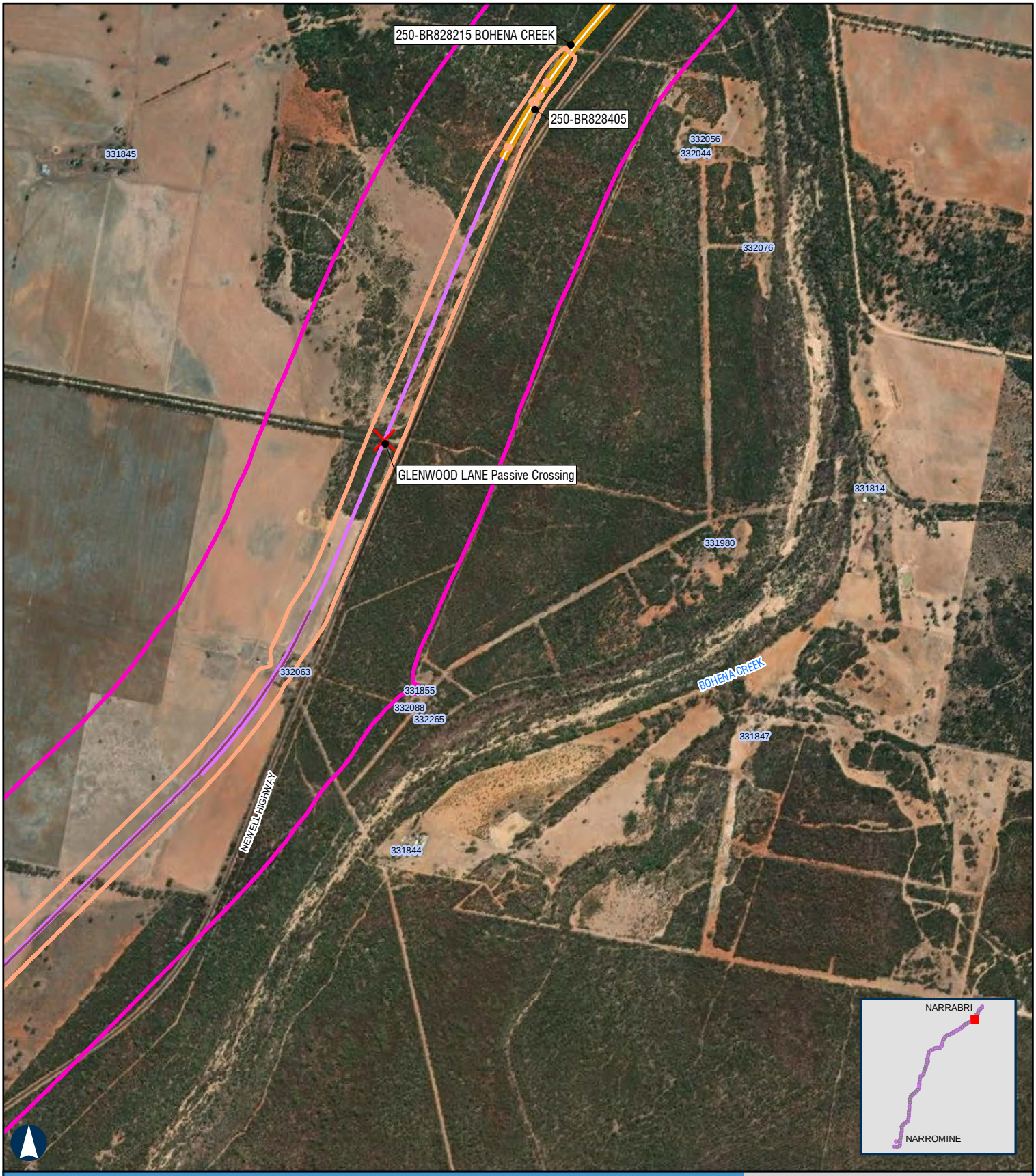
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 68 of 148

500 m

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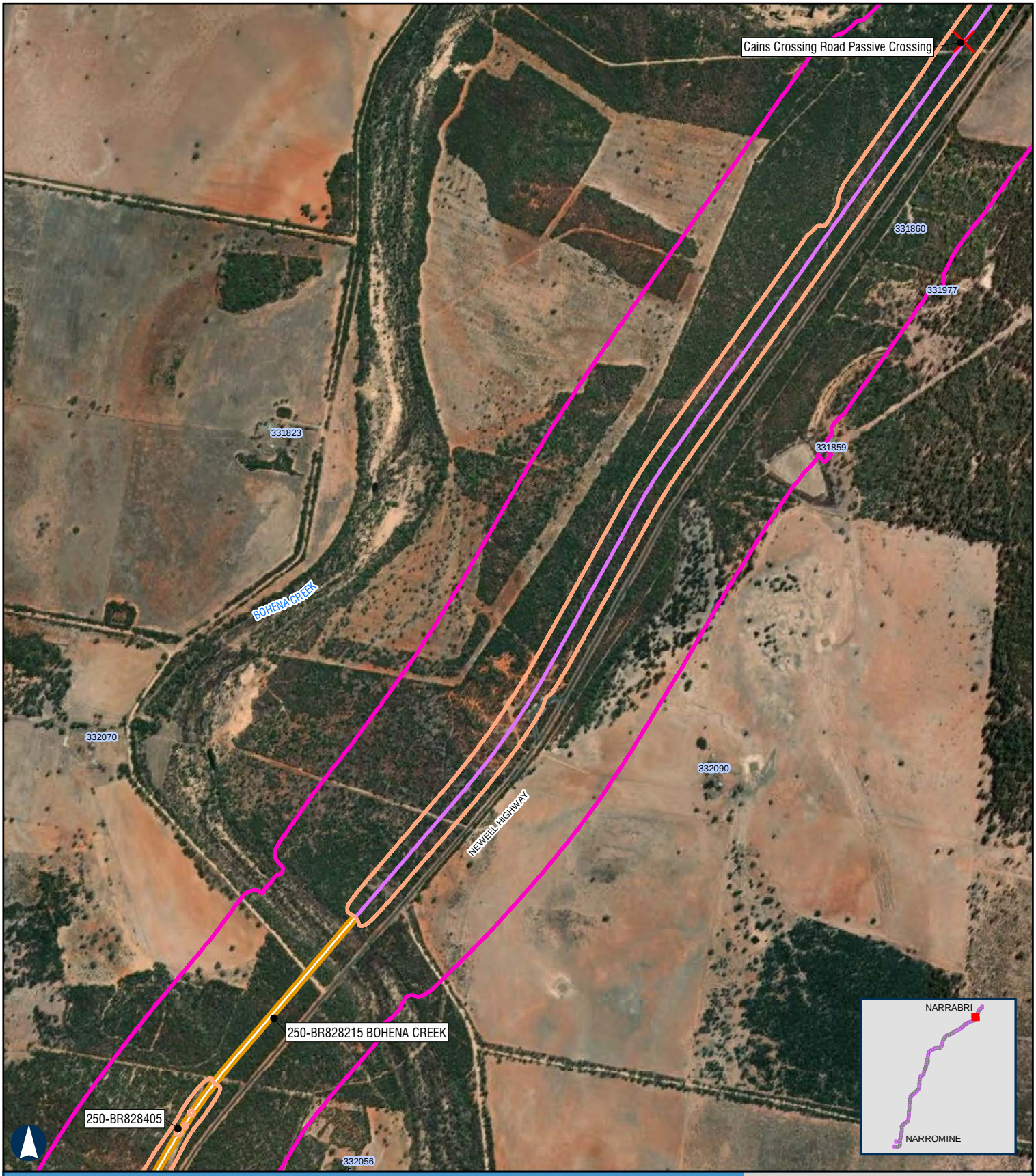
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 69 of 148

500 m

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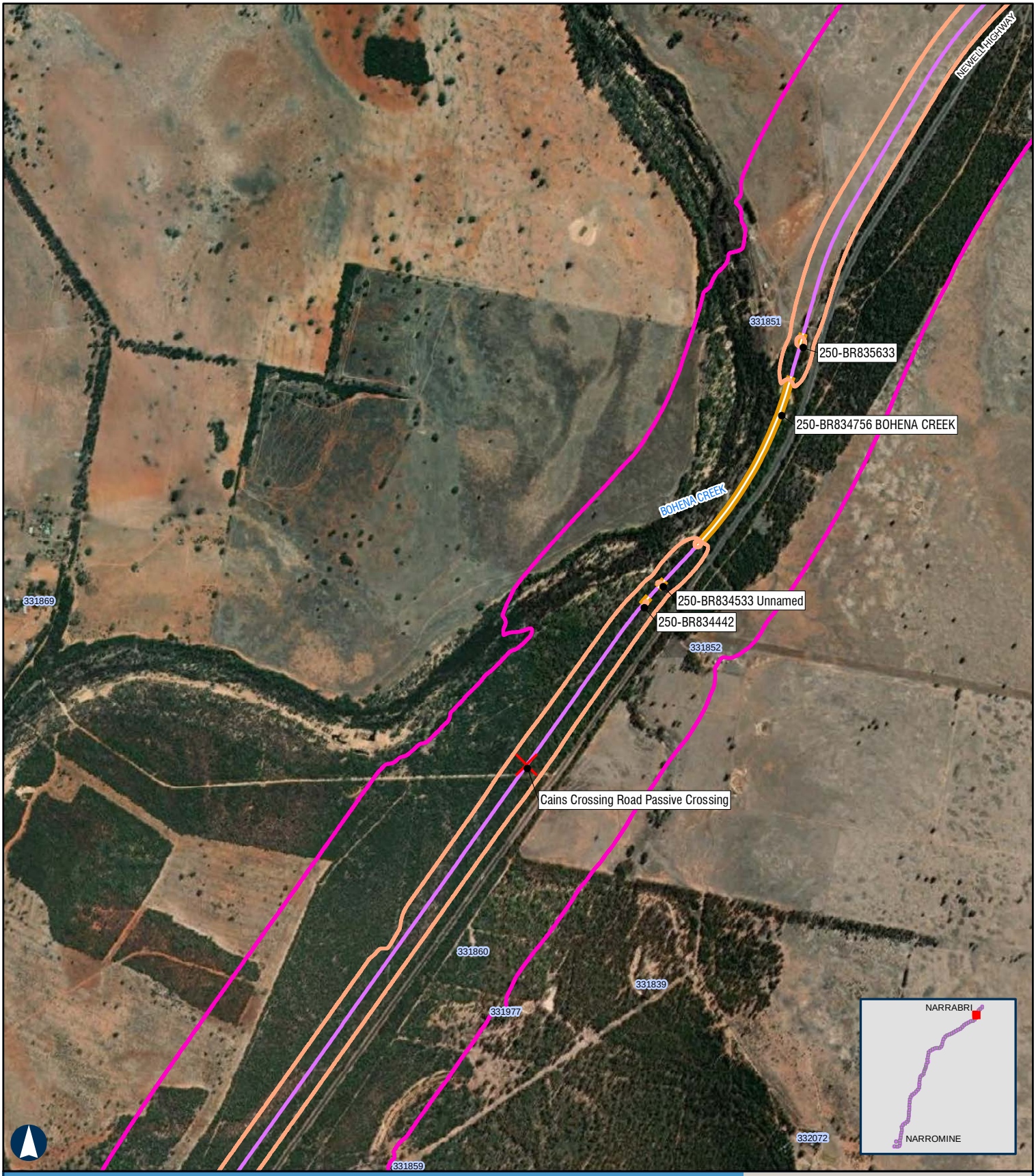
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Year 2026 Daytime Rail Noise Levels

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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 71 of 148

500 m

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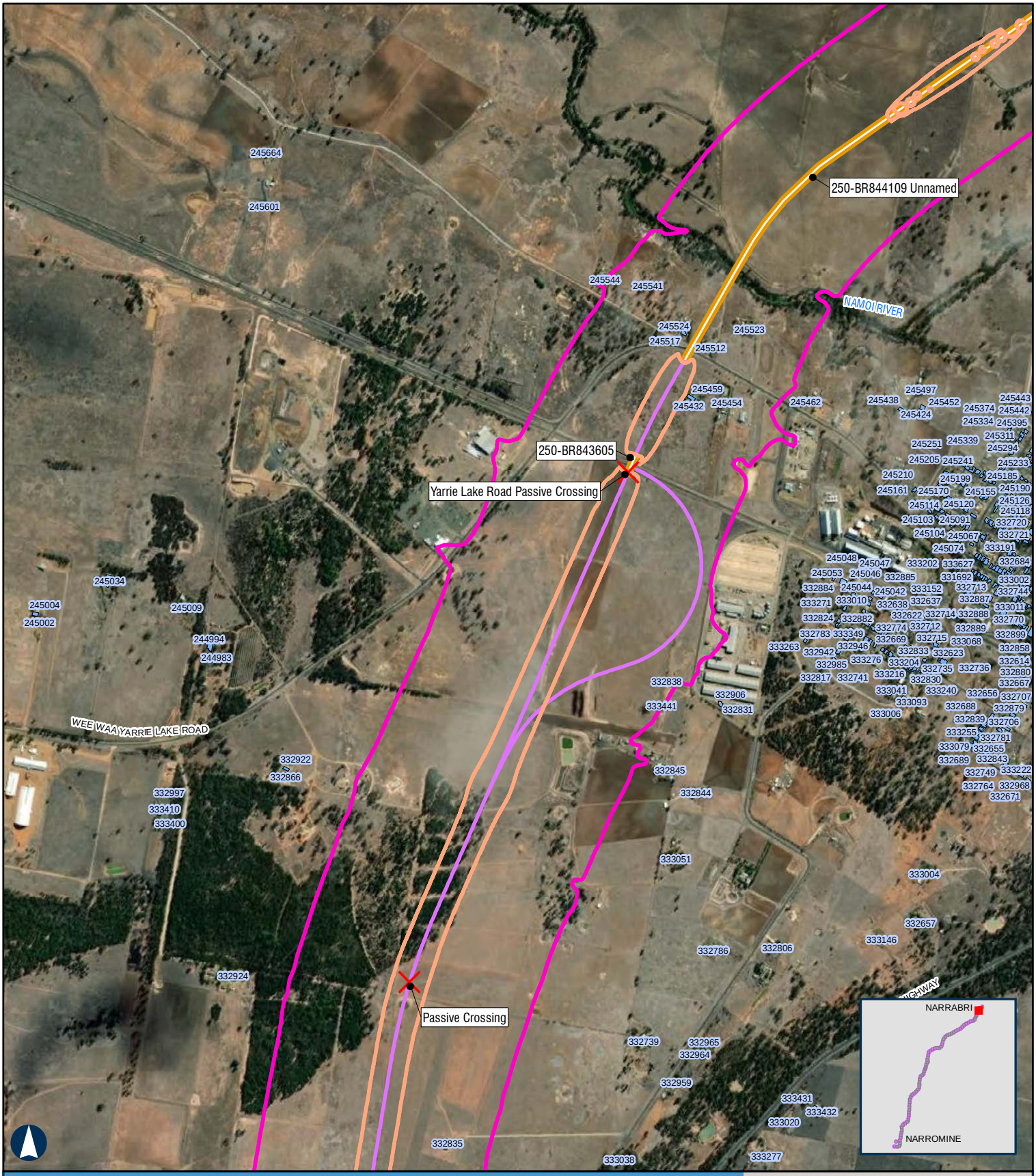
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NARROMINE TO NARRABRI

Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 72 of 148

500 m

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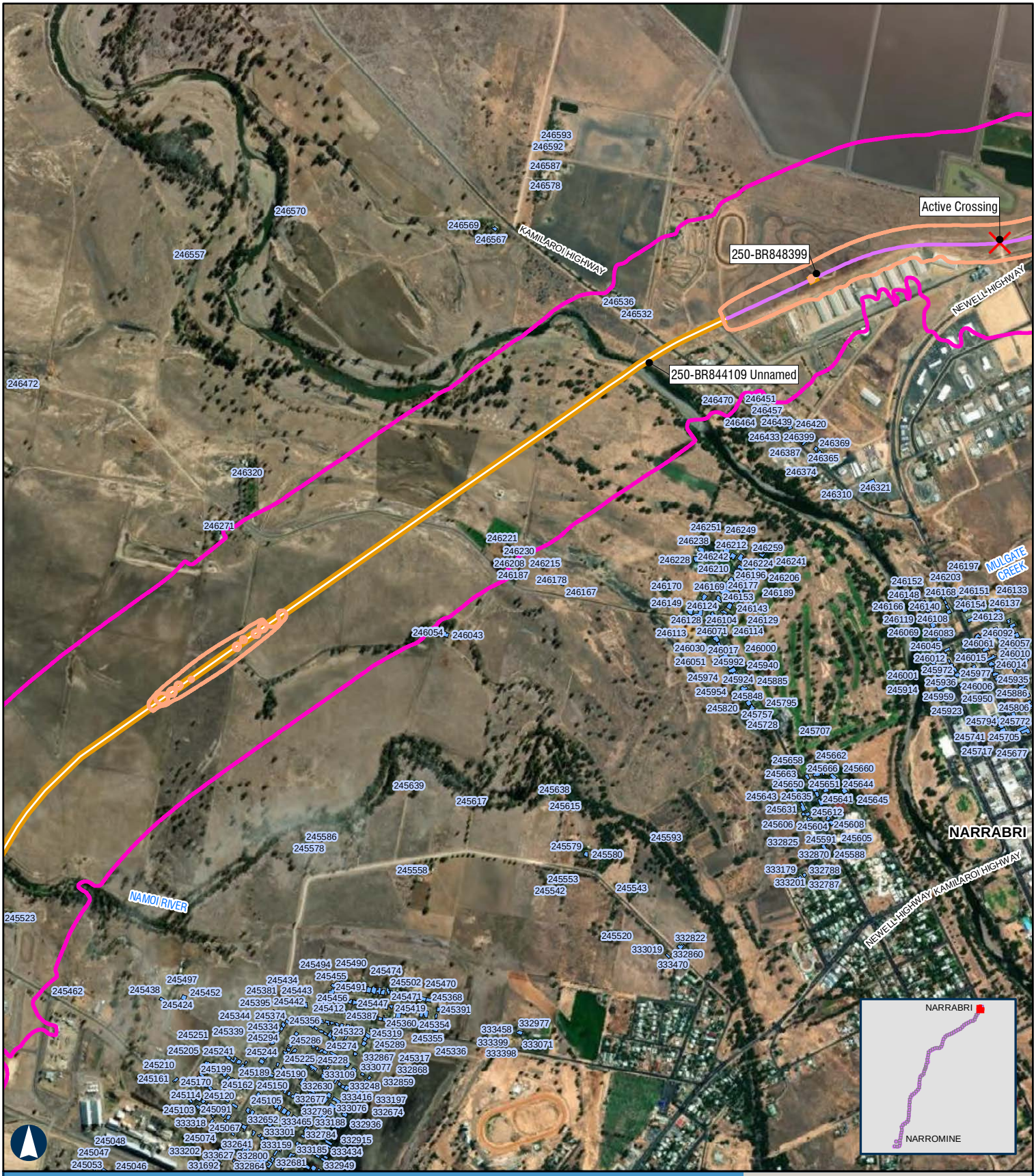
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NARROMINE TO NARRABRI Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 73 of 148

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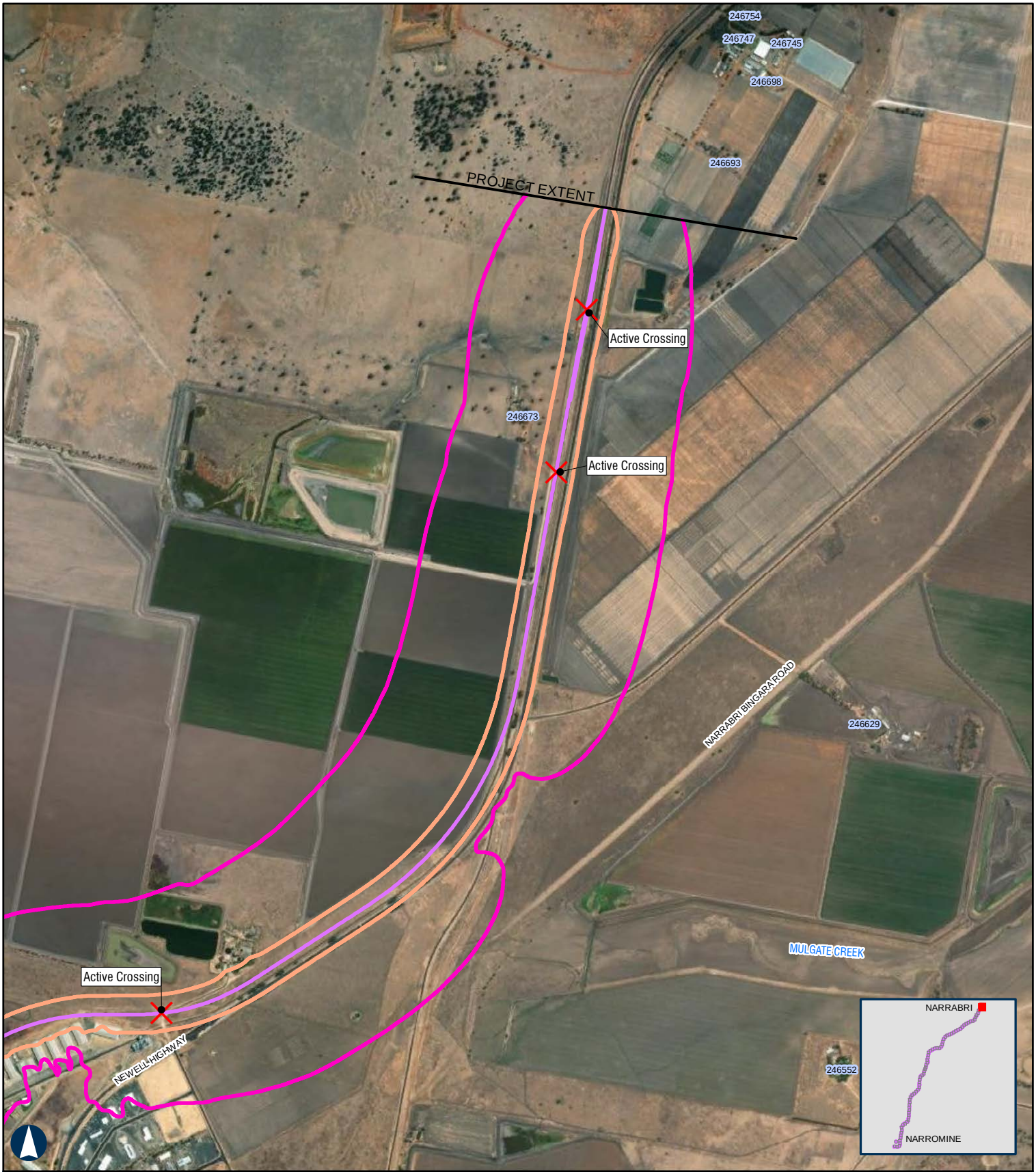
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Year 2026 Daytime Rail Noise Levels

APPENDIX D - Map 74 of 148

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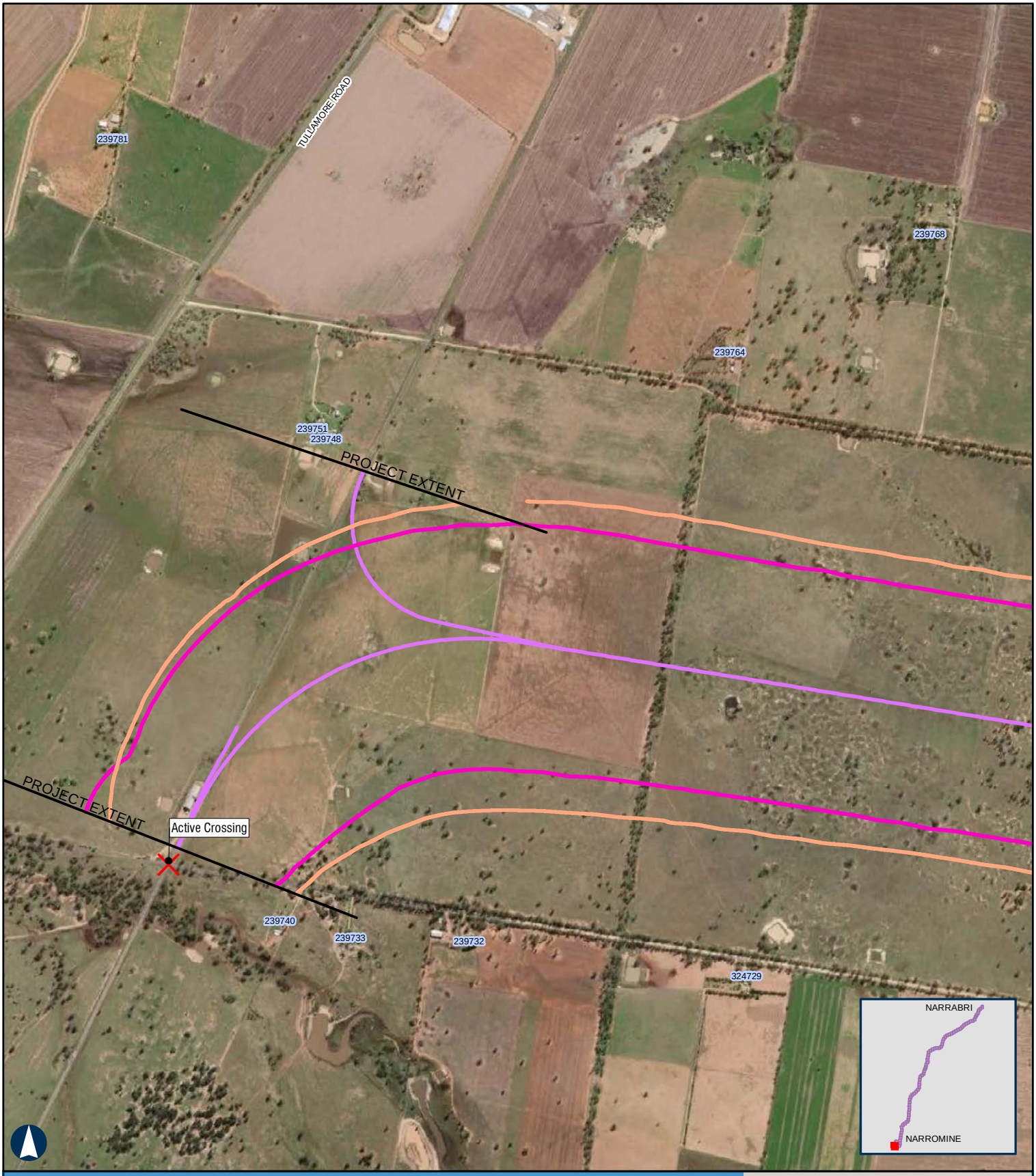
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 75 of 148

500 m

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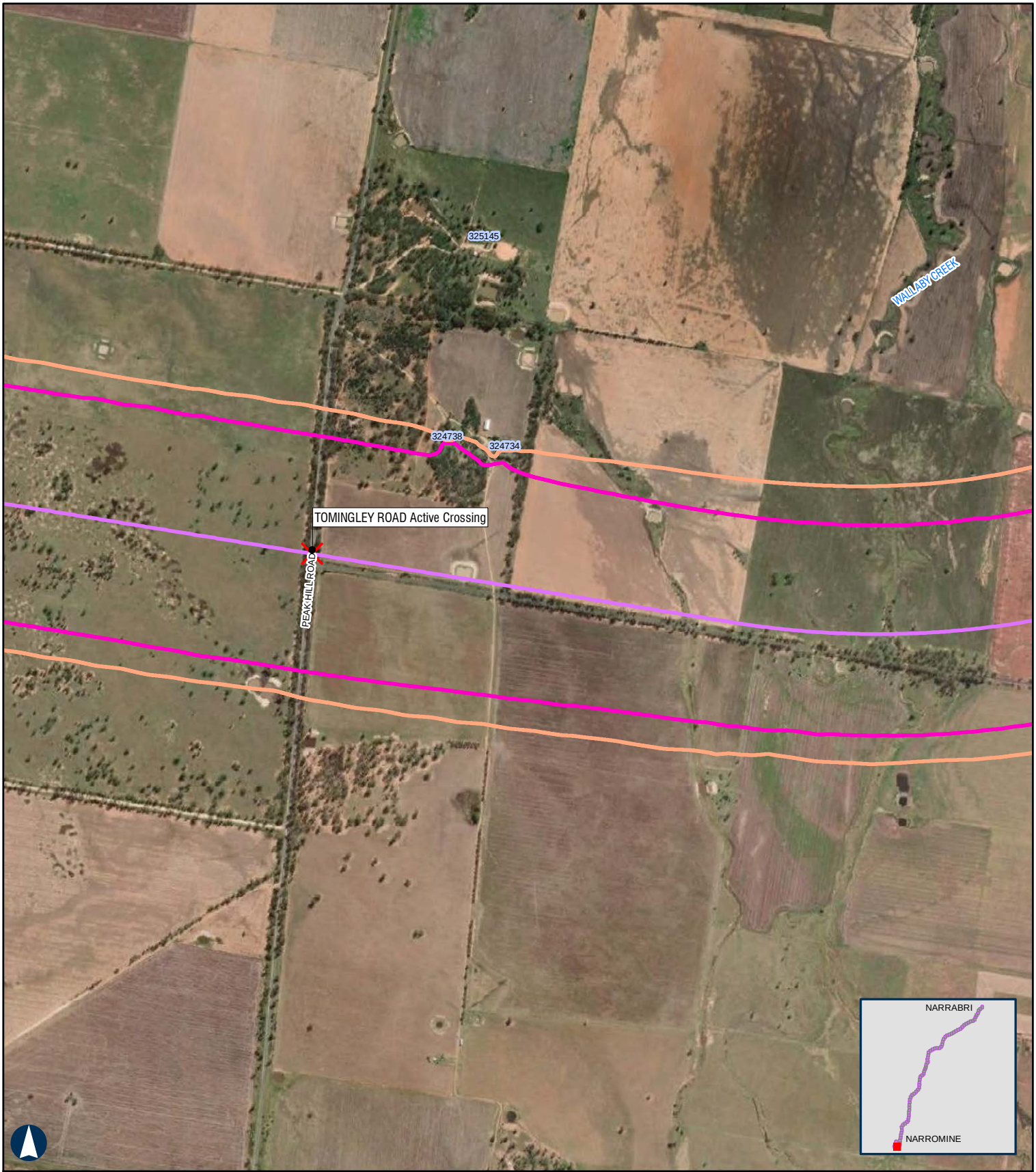
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
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Year 2026 Night-time Rail Noise Levels

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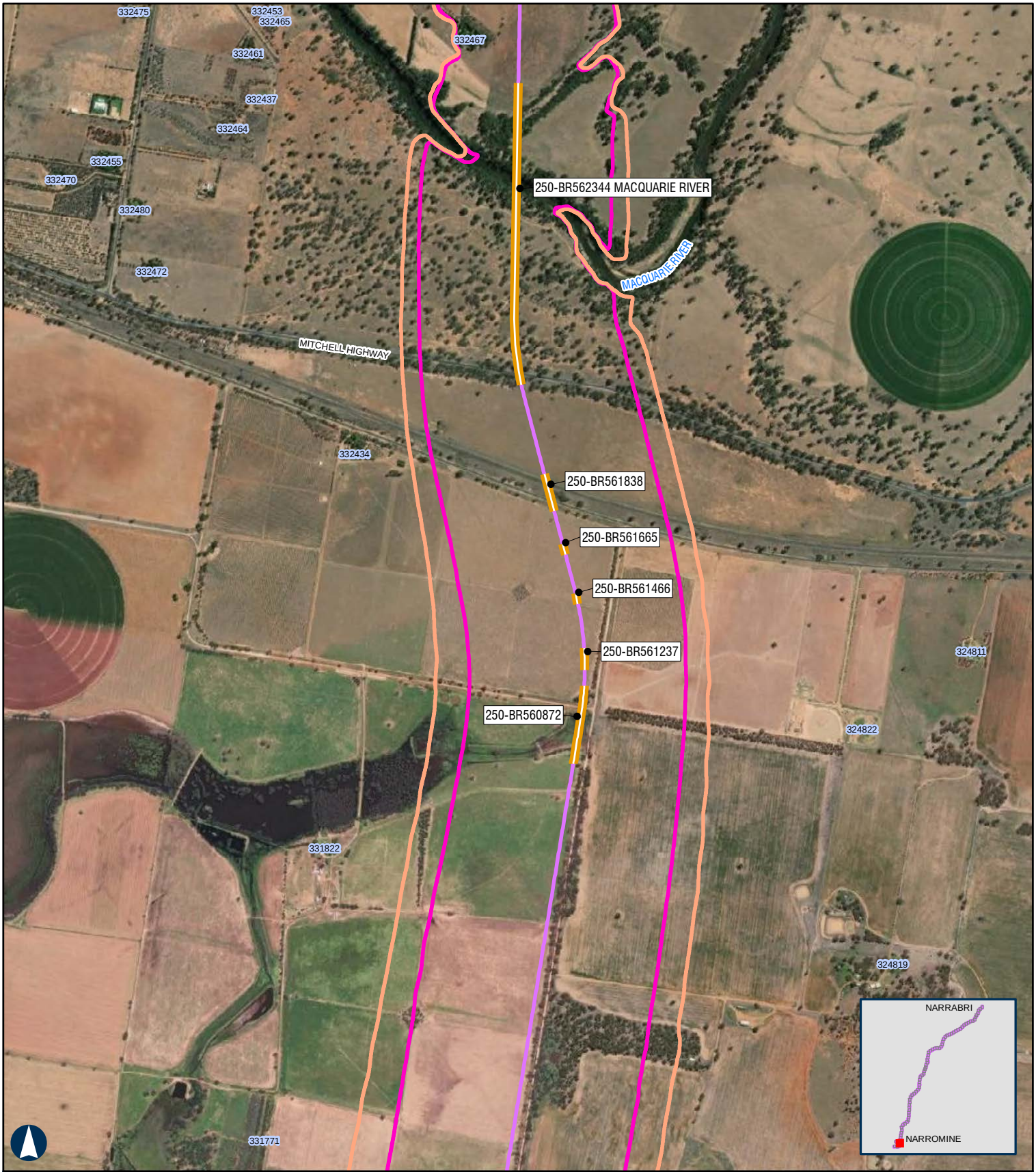
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 78 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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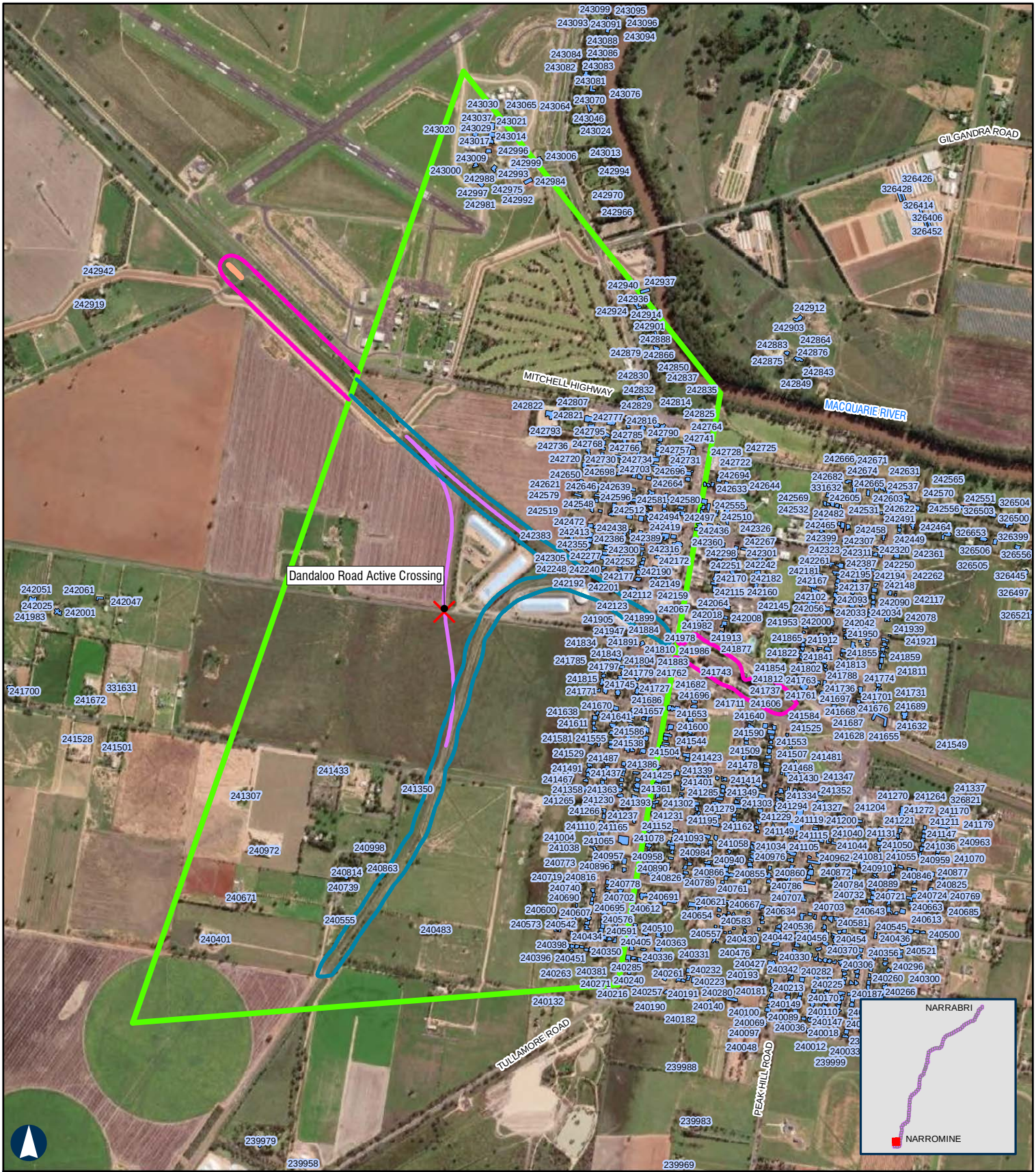
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 79 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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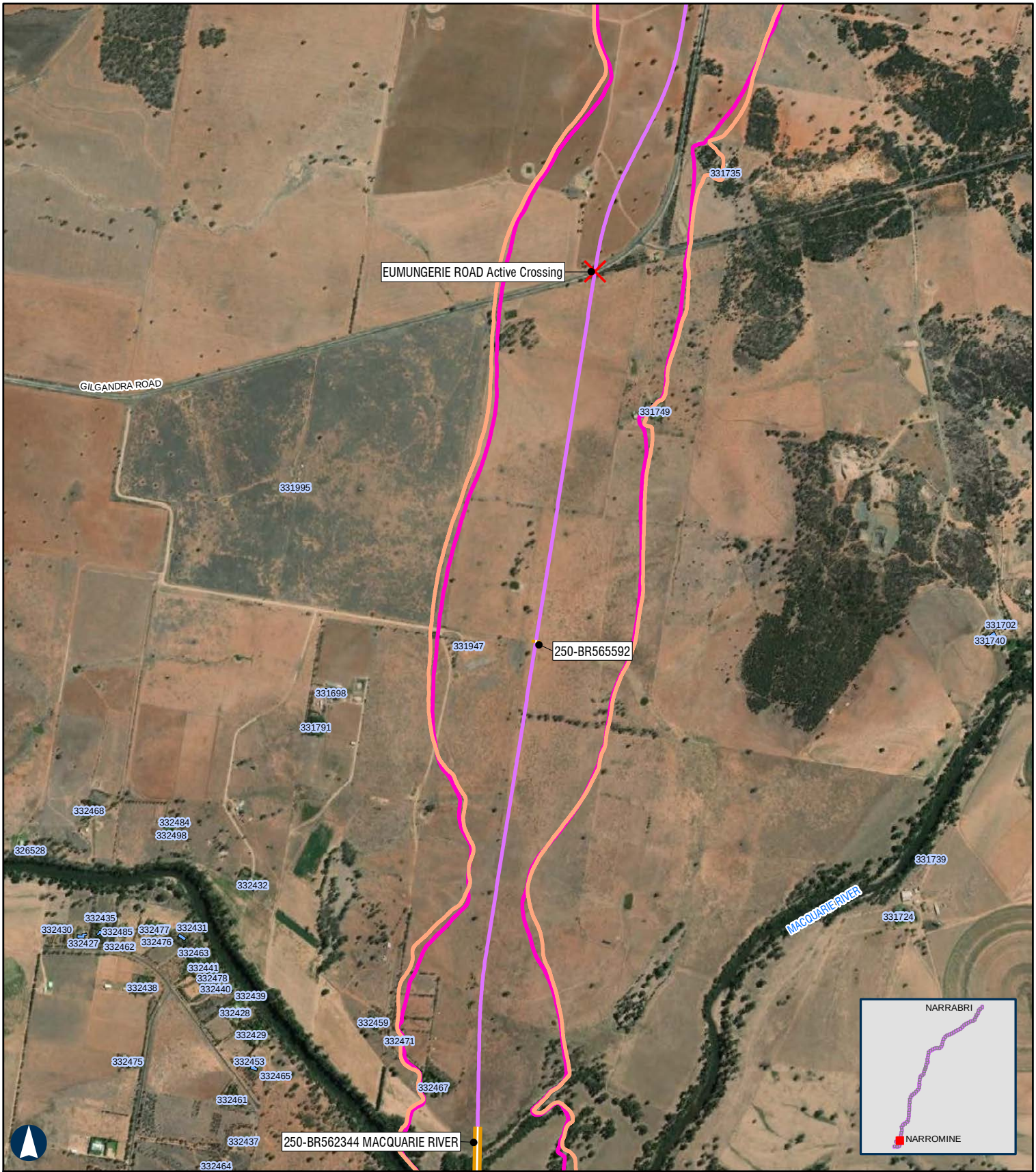
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 80 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:22,000
Date: 01-Feb-2022
Author: JG

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- Sensitive Receivers
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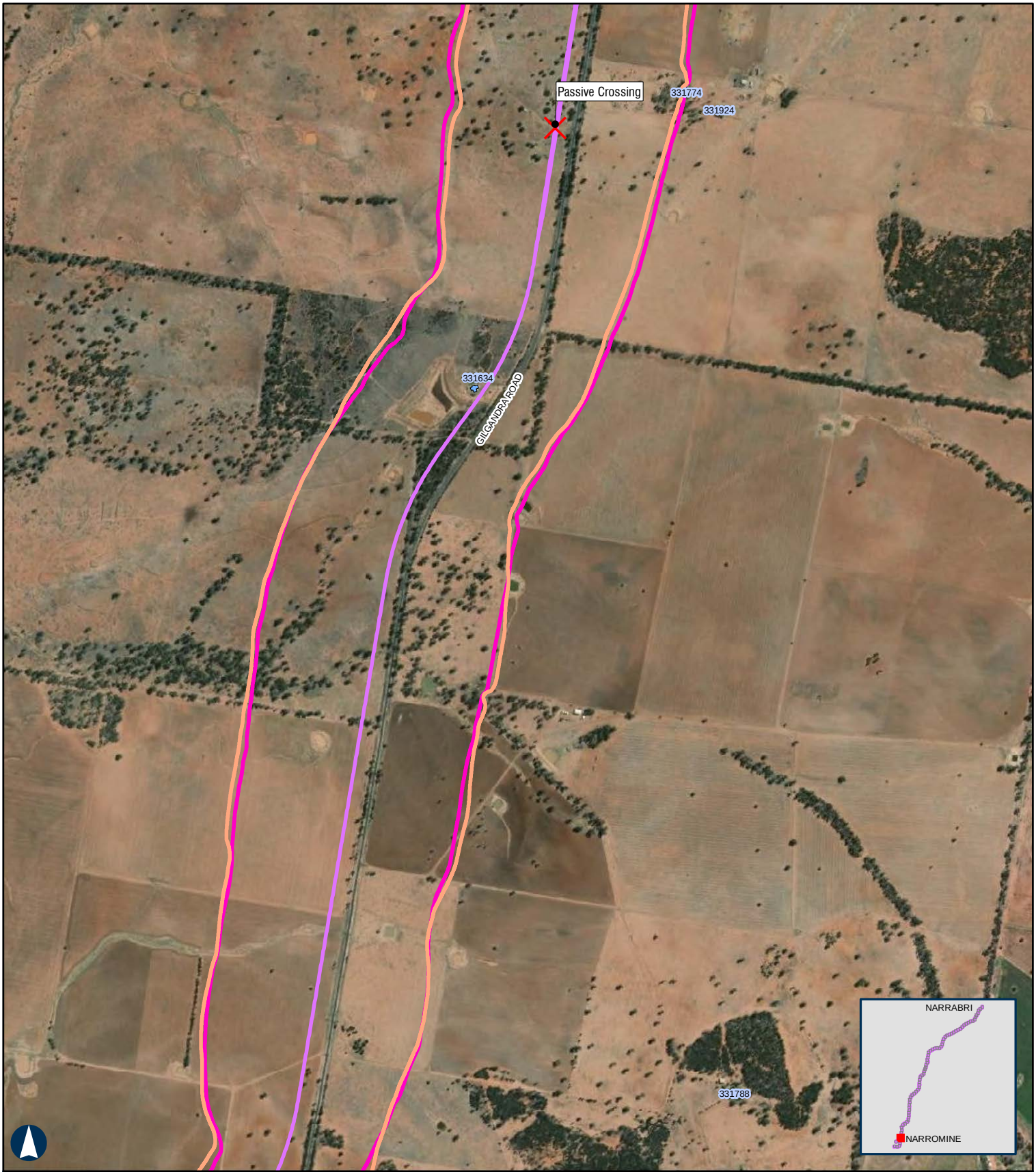
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

500 m

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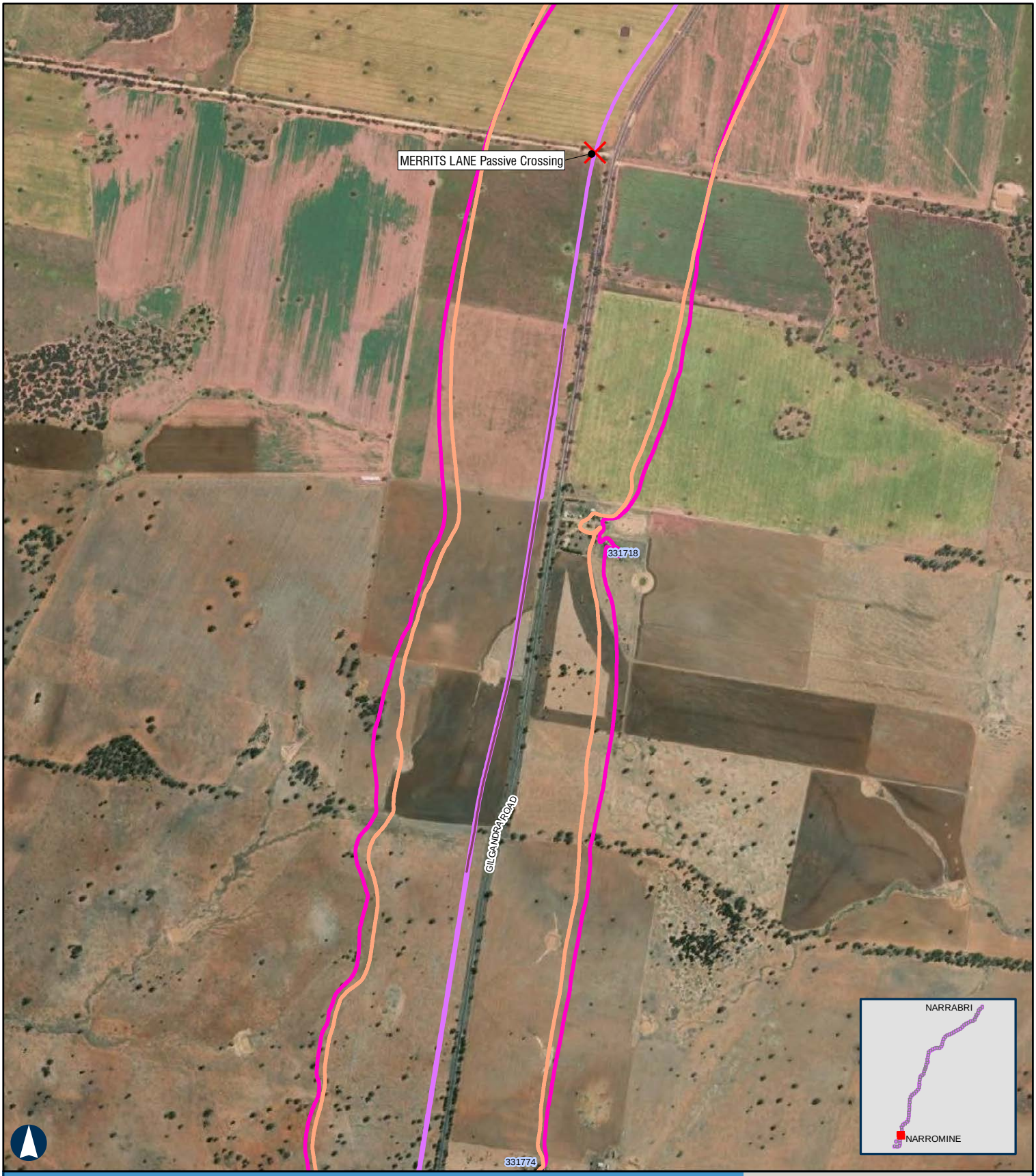
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 82 of 148

500 m

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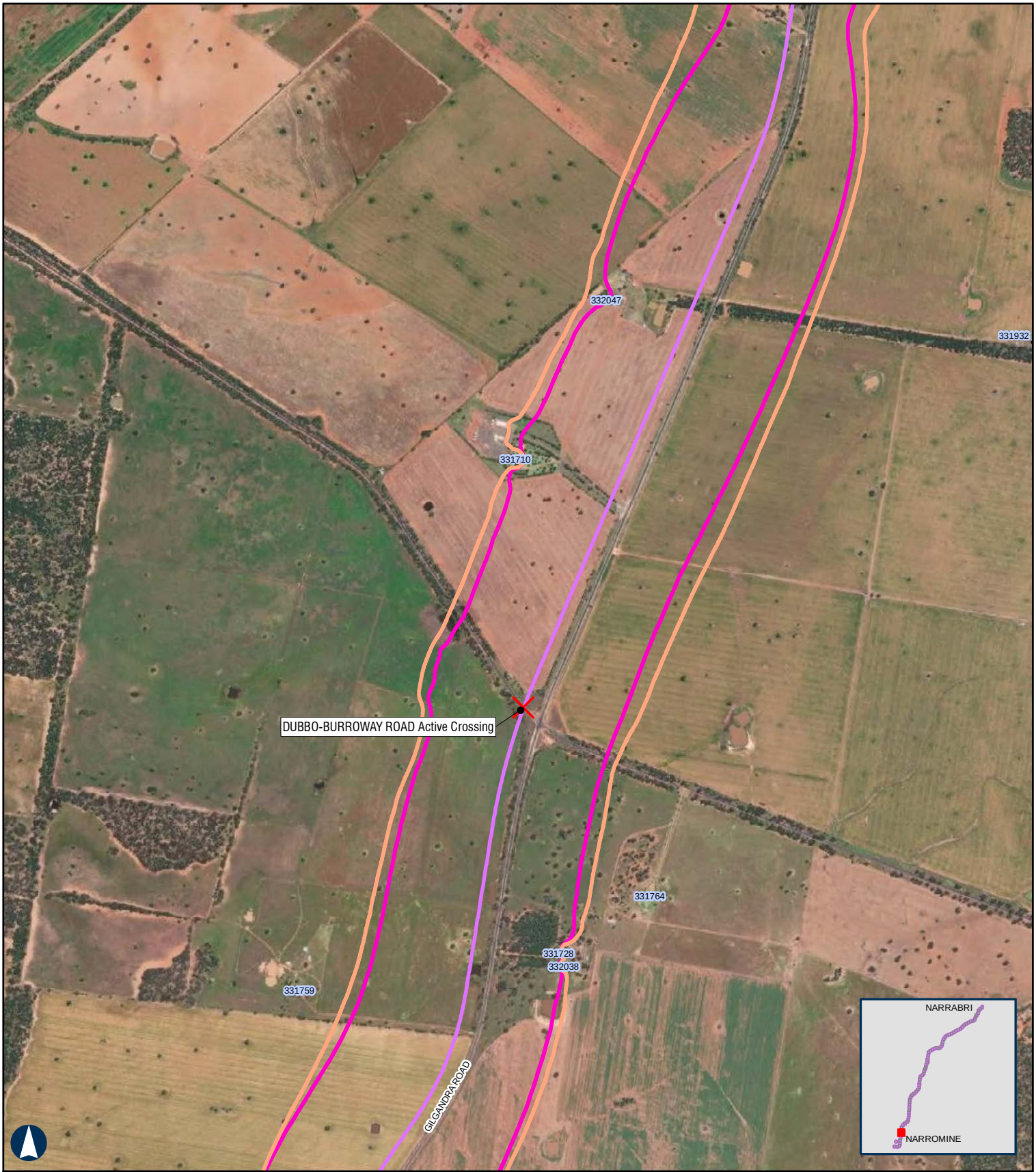
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 83 of 148

500 m

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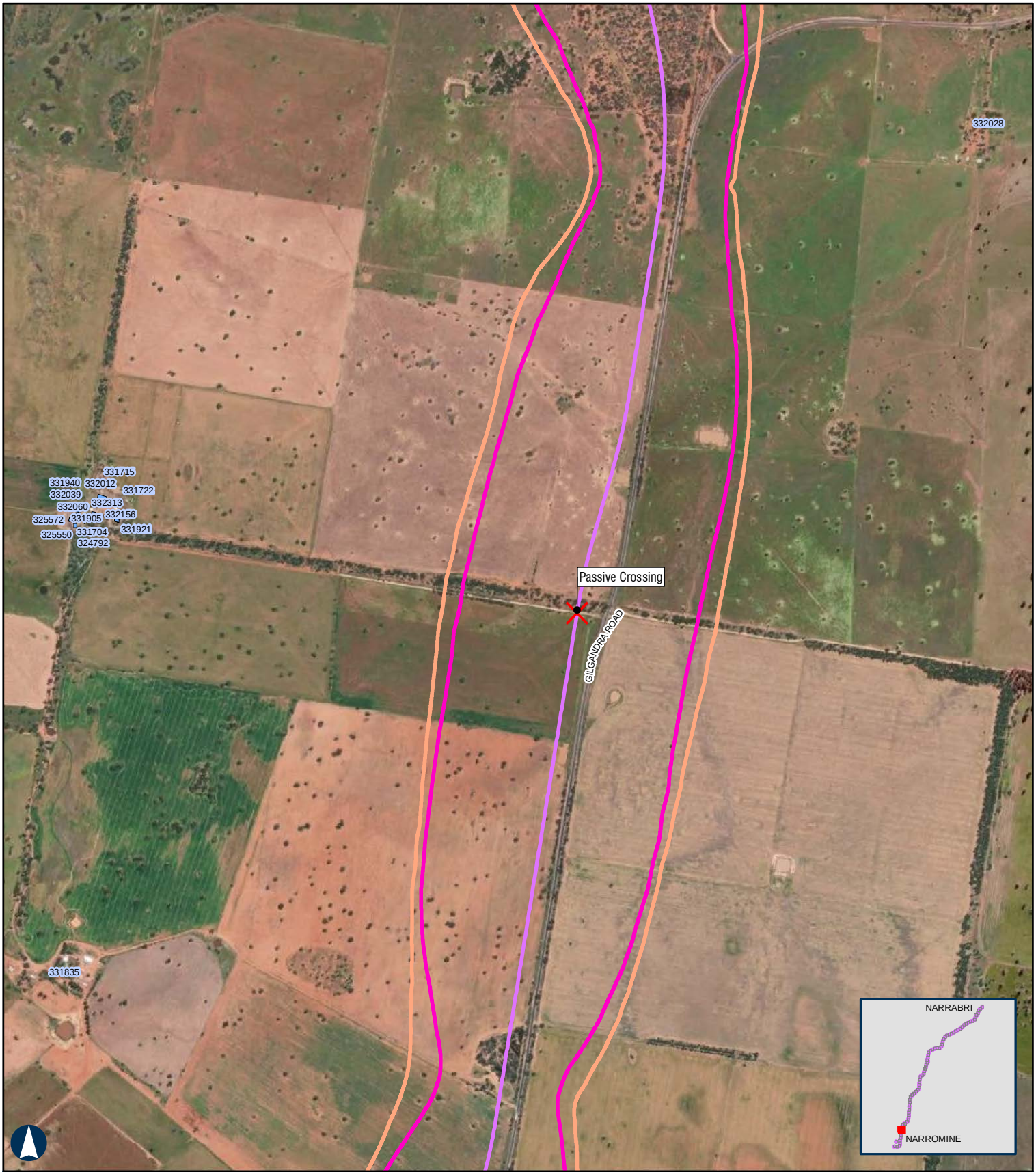
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 84 of 148

500 m

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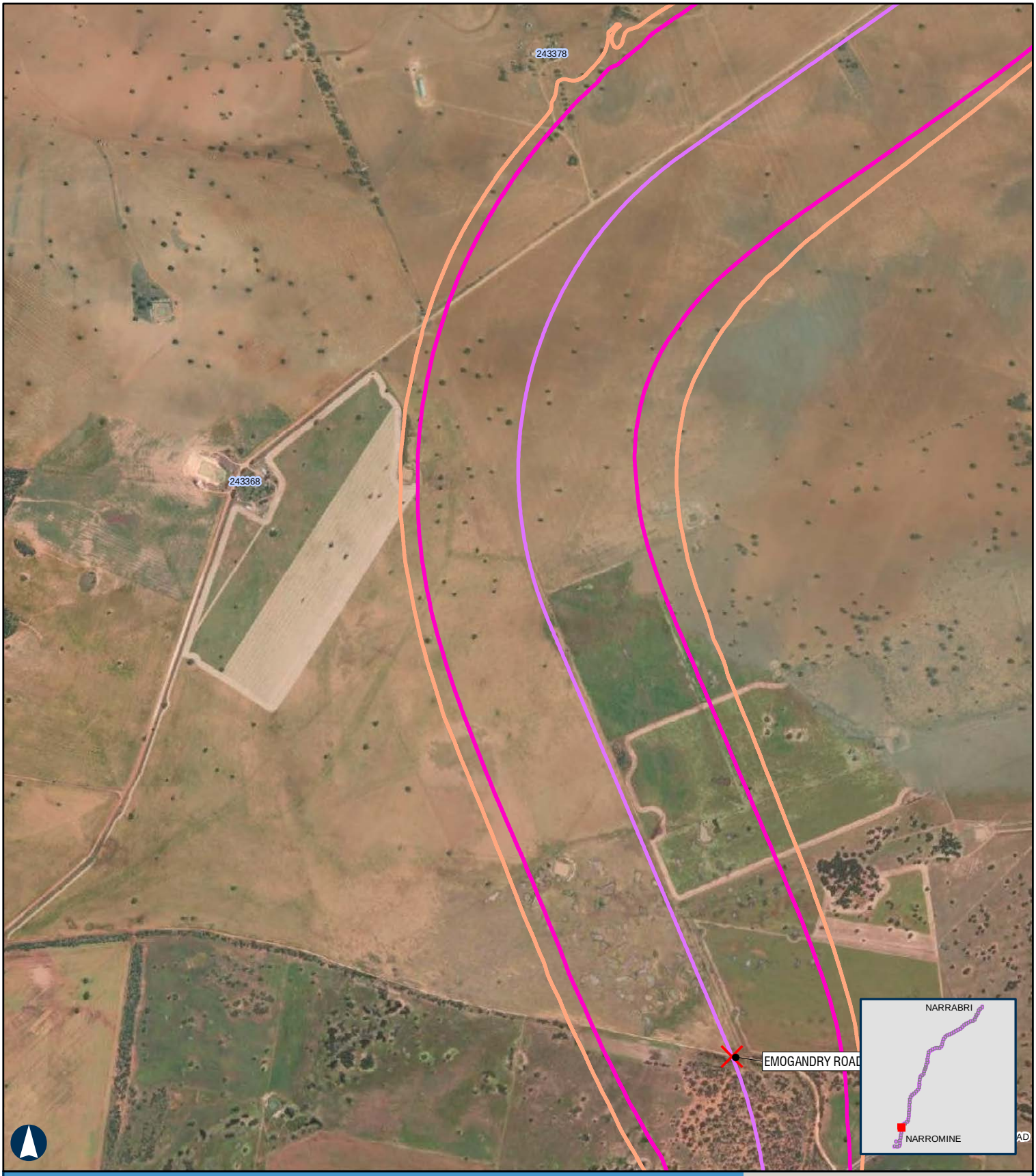
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Year 2026 Night-time Rail Noise Levels

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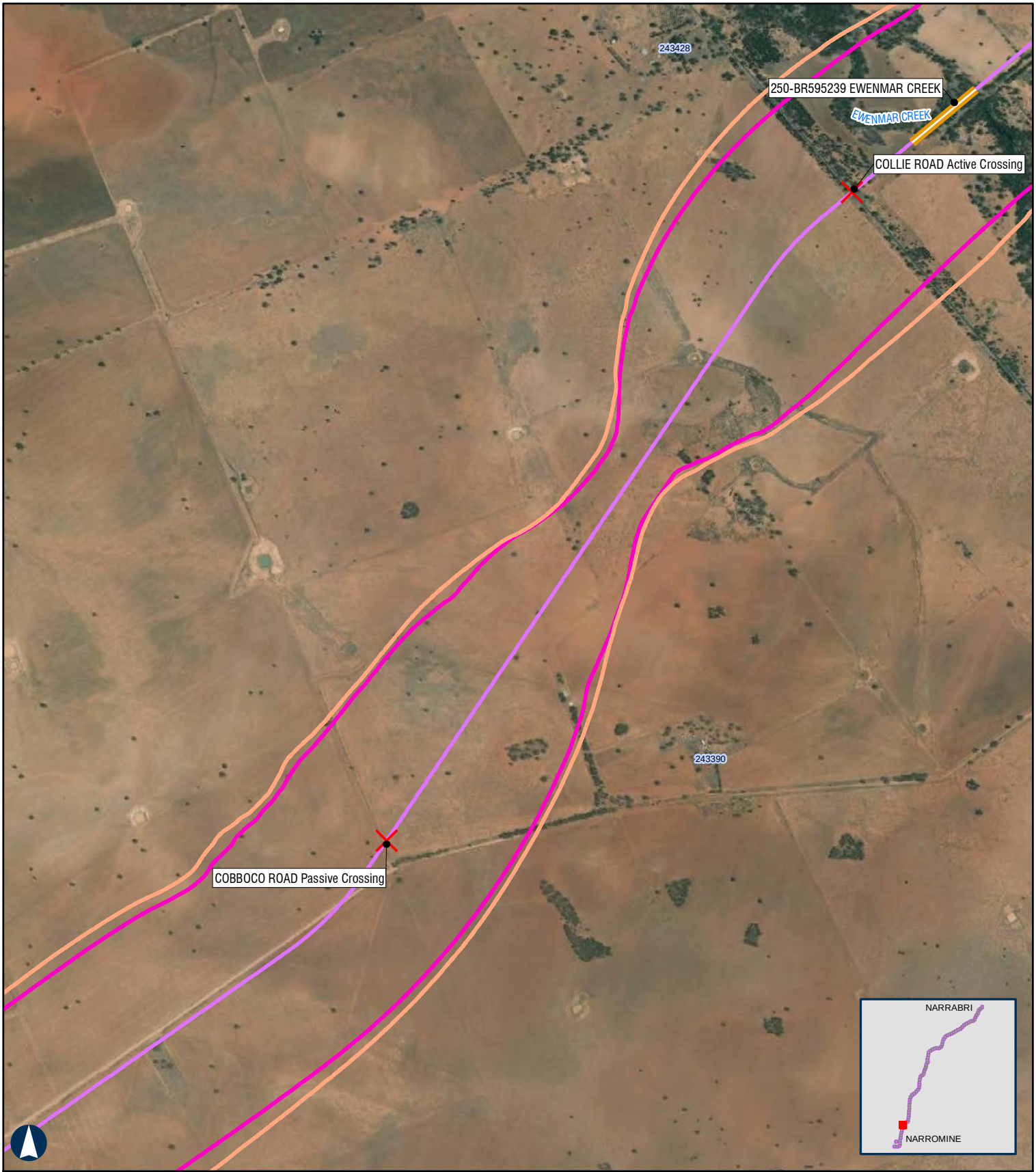
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 86 of 148

500 m

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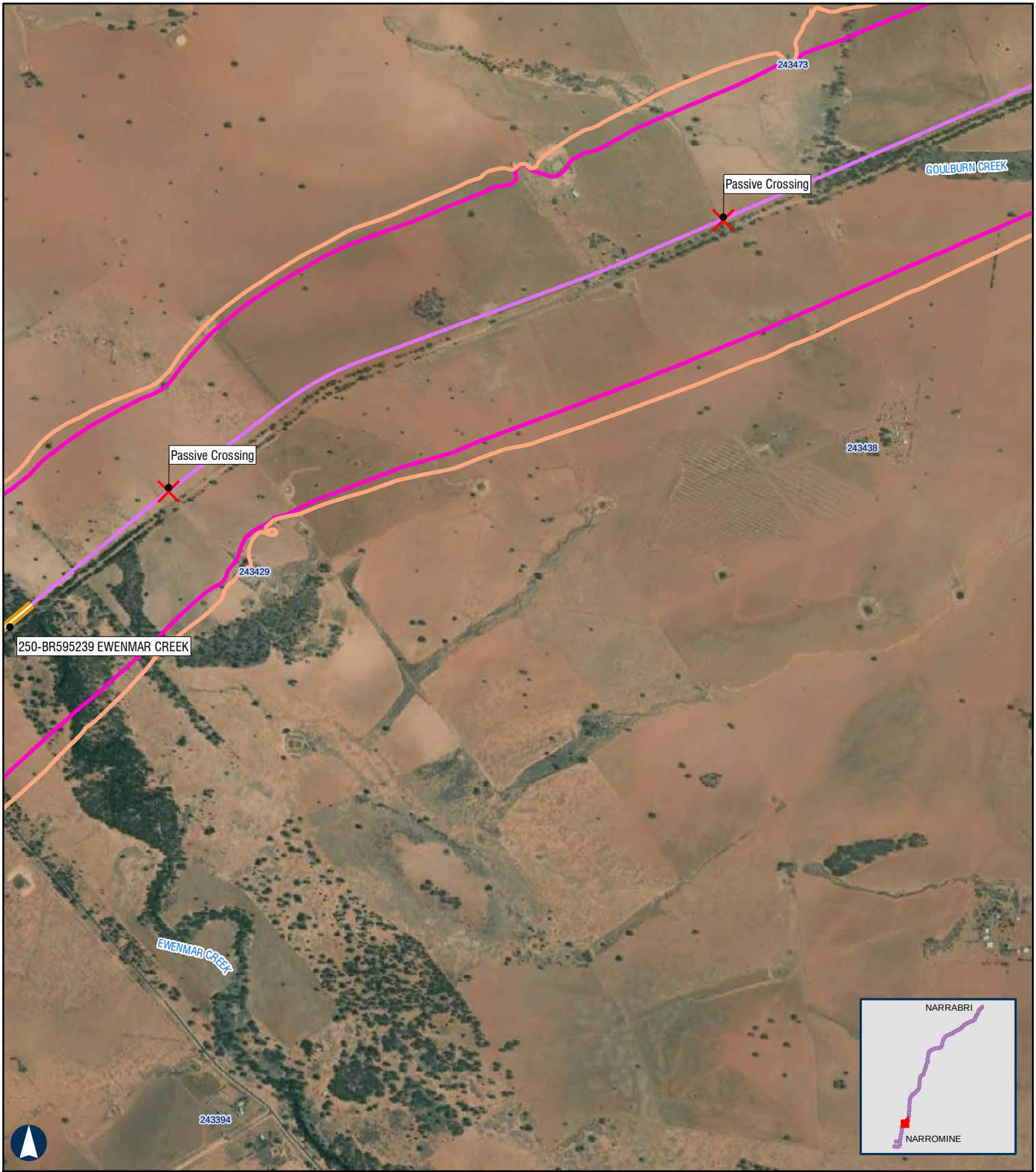
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NARROMINE TO NARRABRI Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 87 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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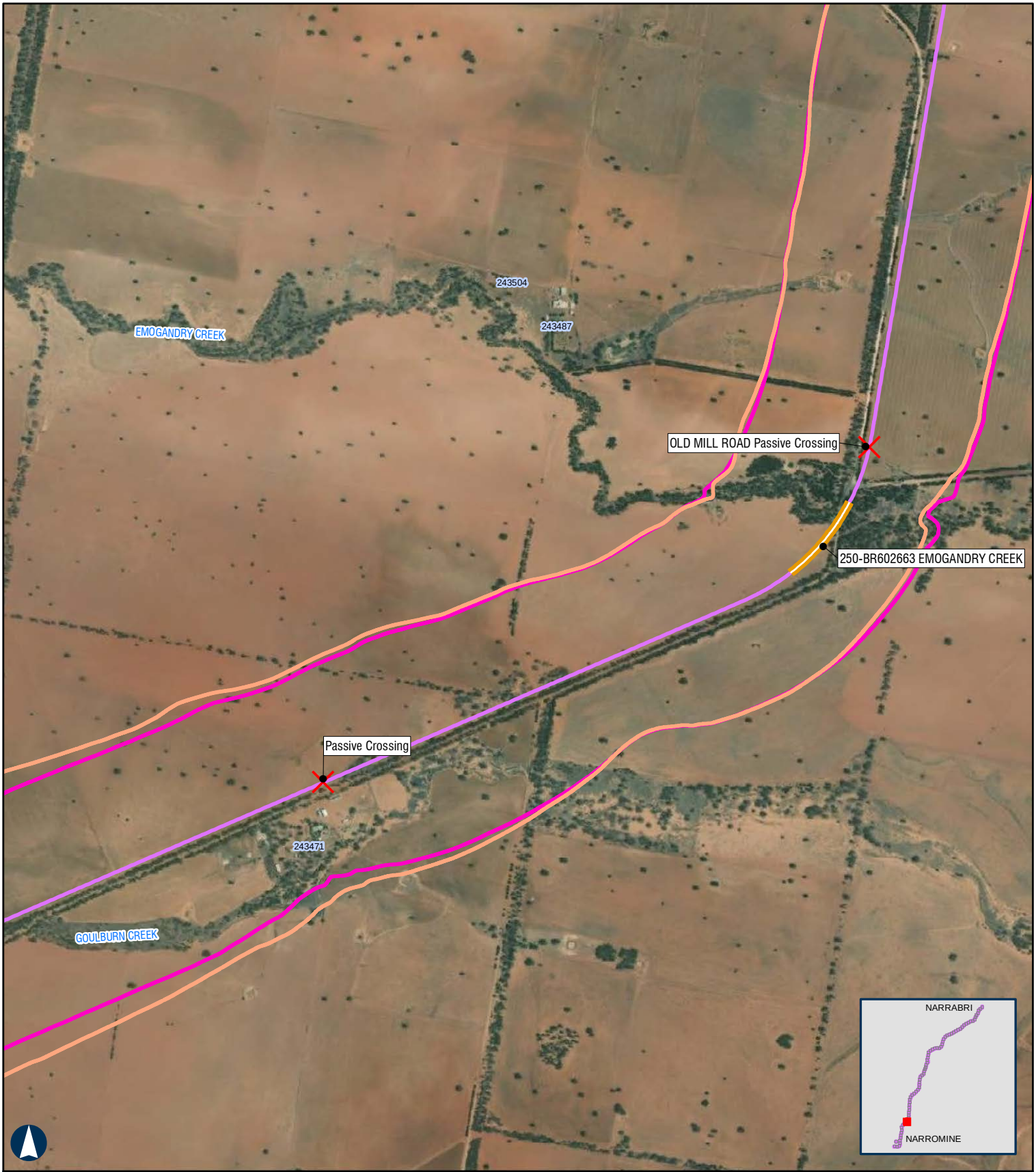
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 88 of 148

500 m

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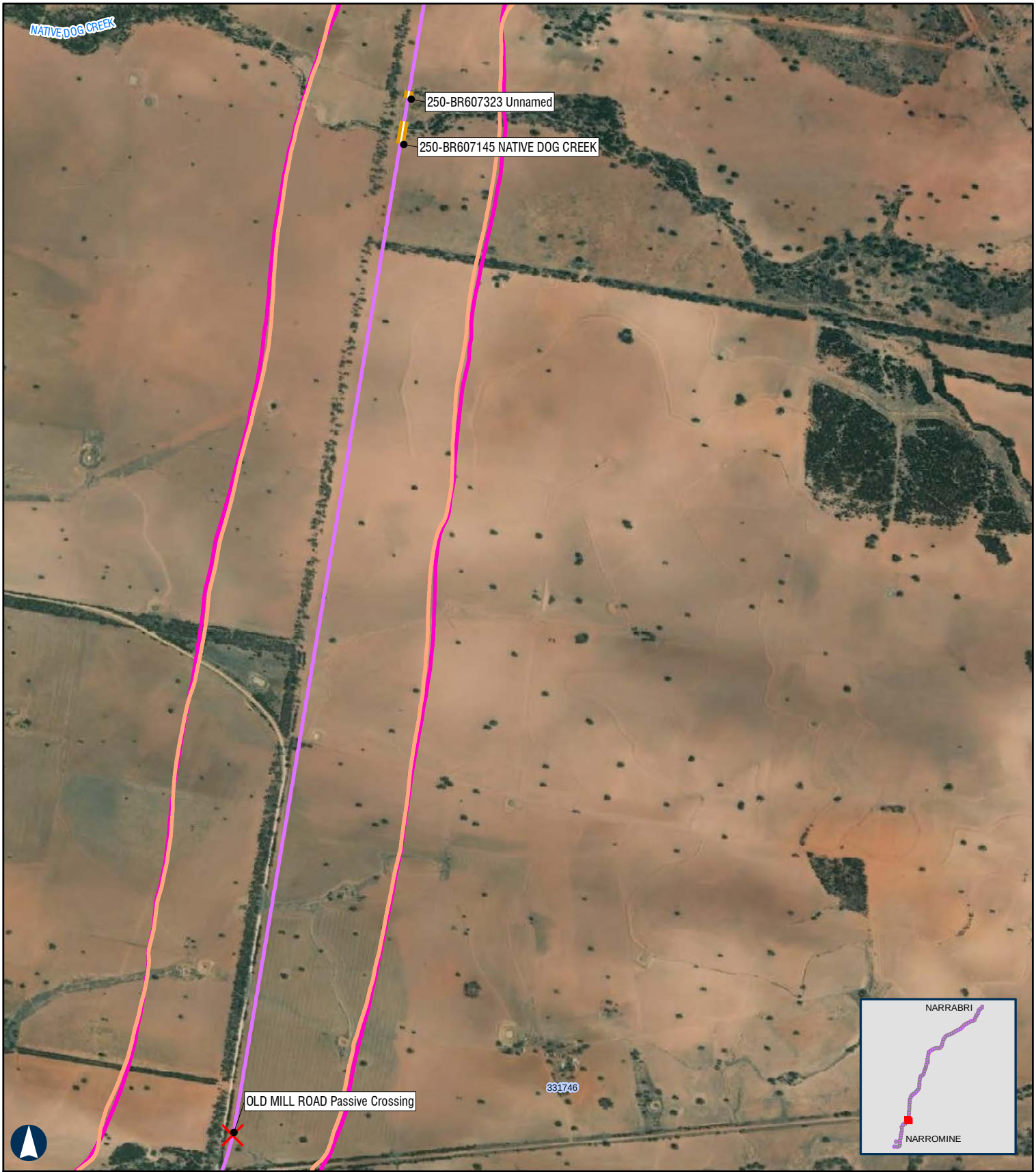
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NARROMINE TO NARRABRI Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 89 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

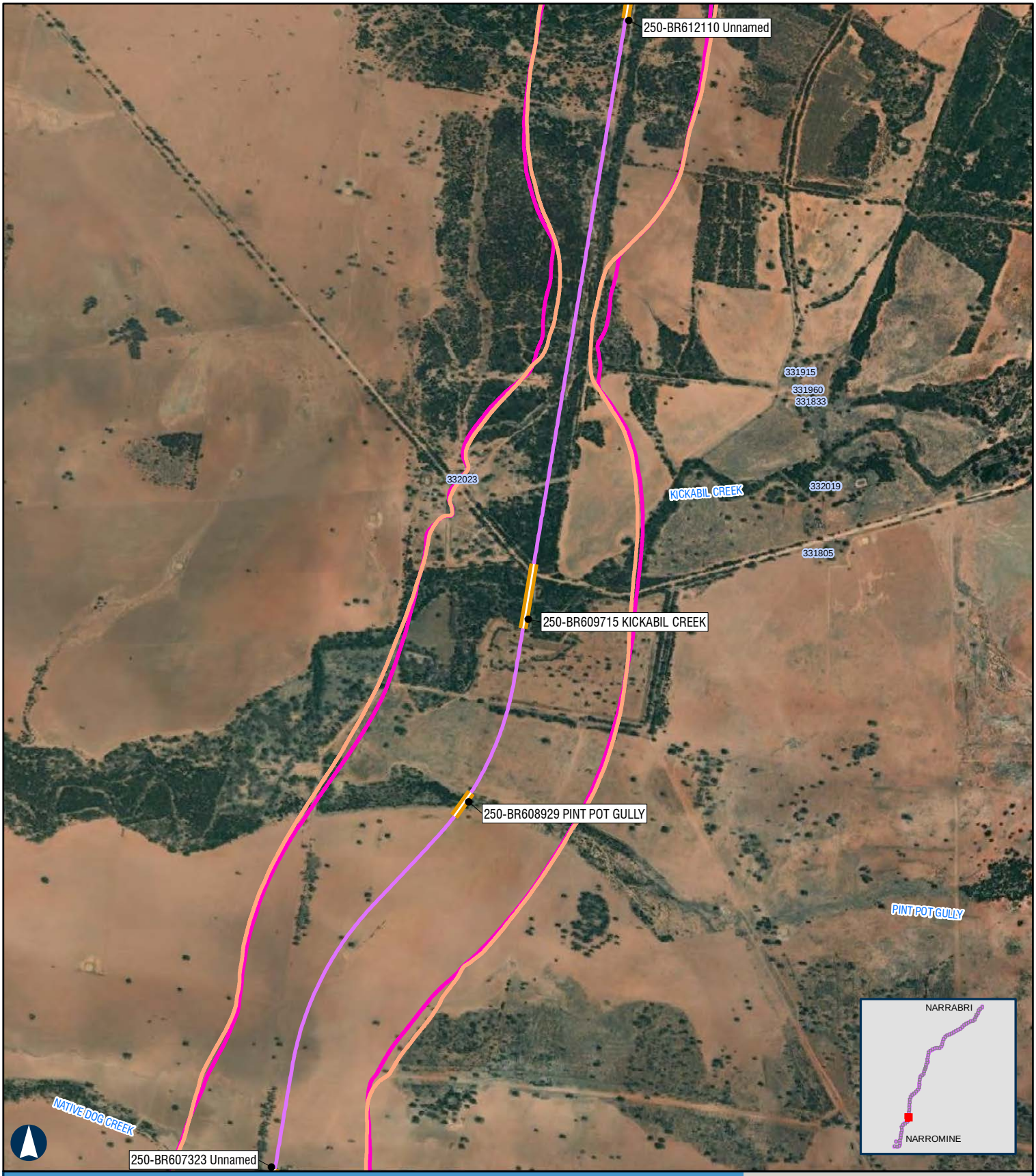
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 90 of 148

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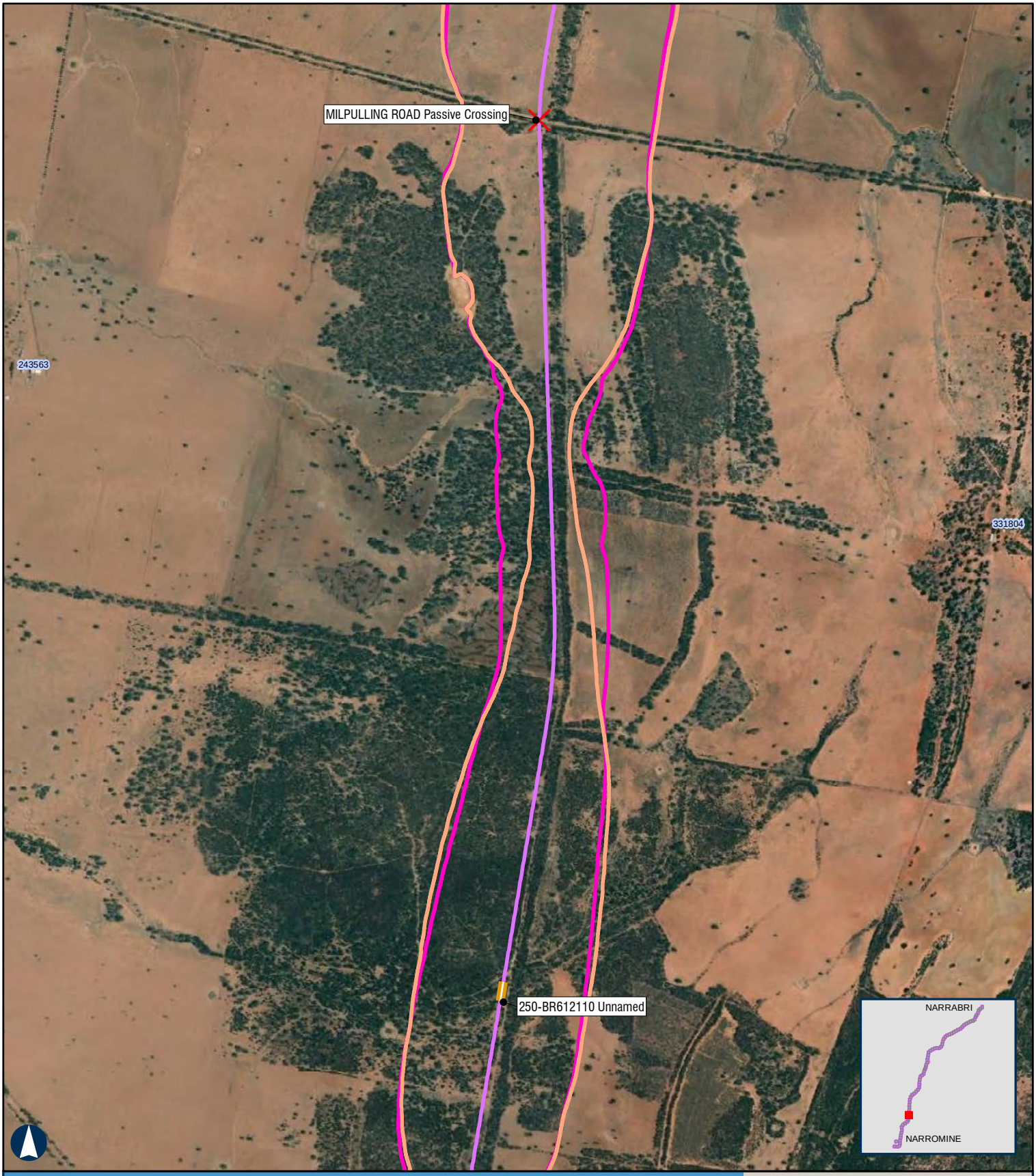
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 91 of 148

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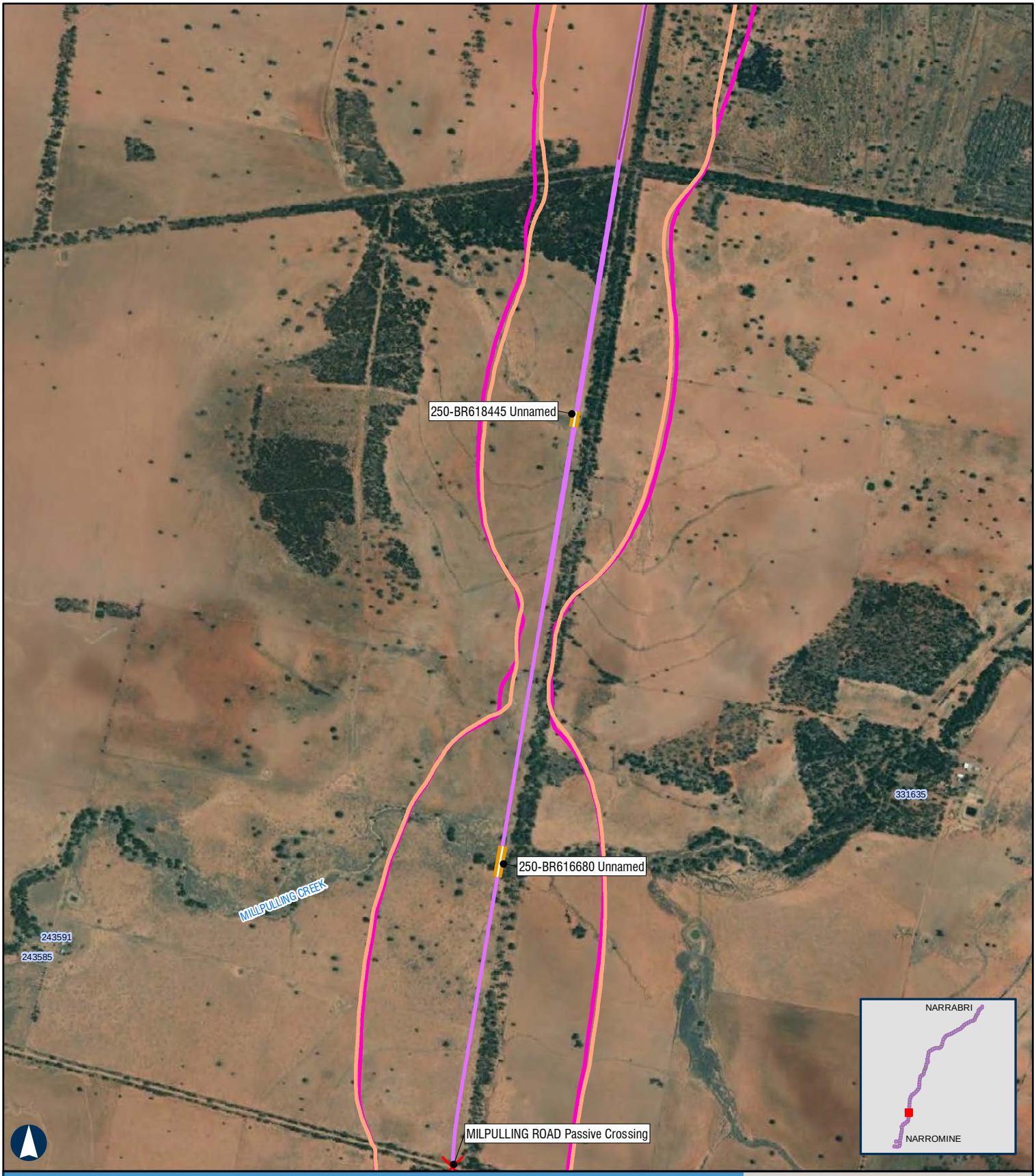
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 92 of 148

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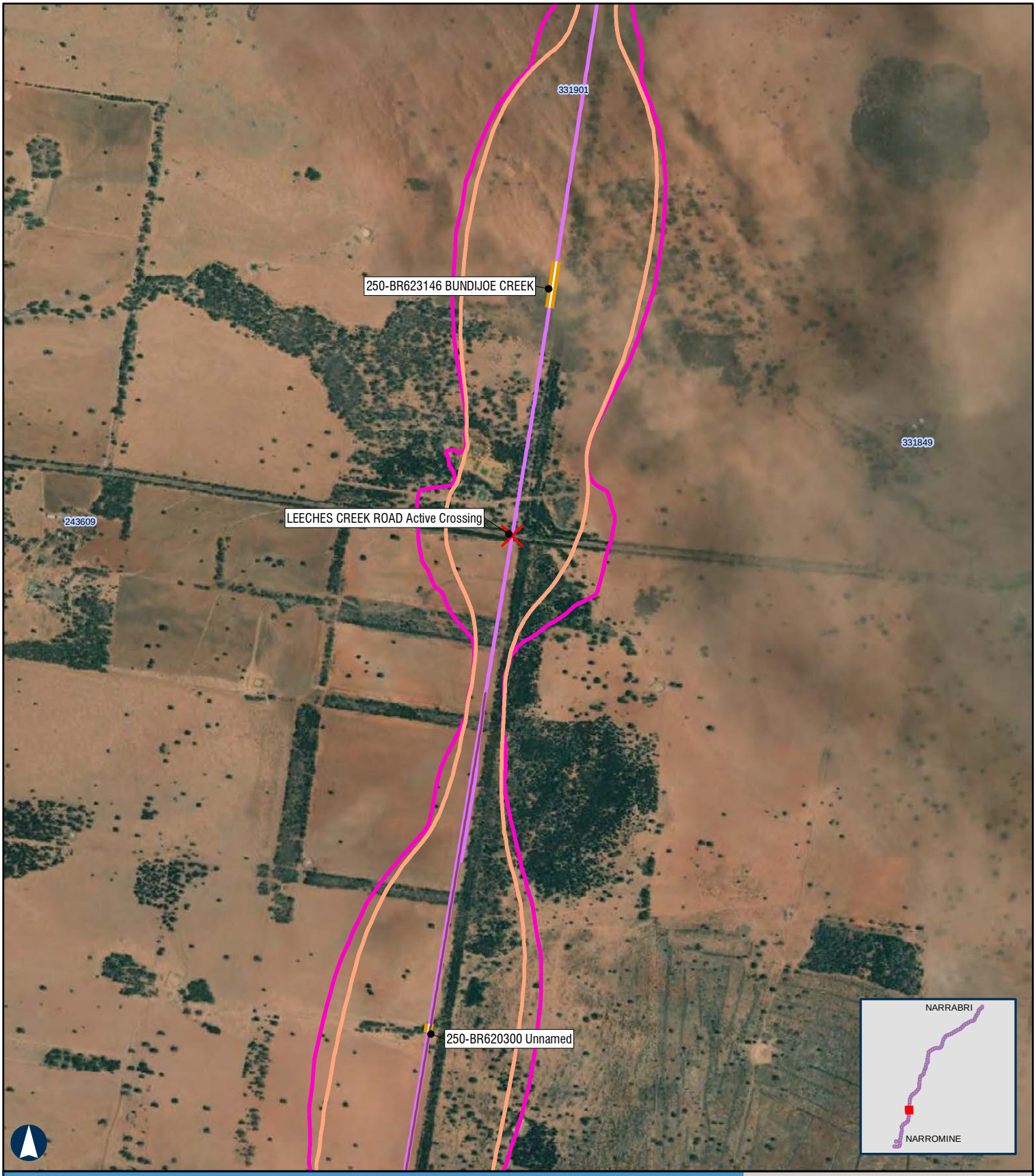
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 93 of 148

500 m

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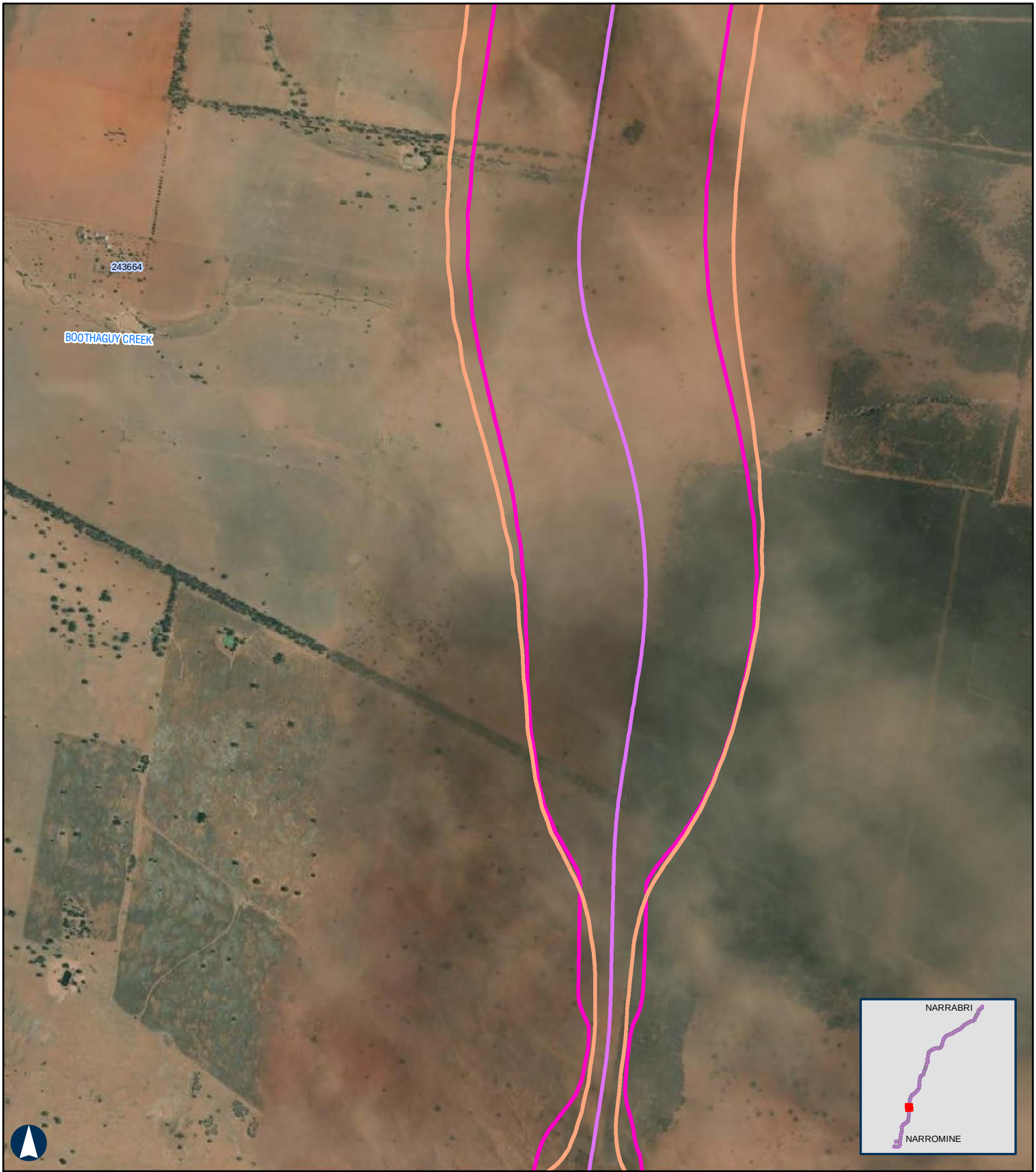
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Year 2026 Night-time Rail Noise Levels

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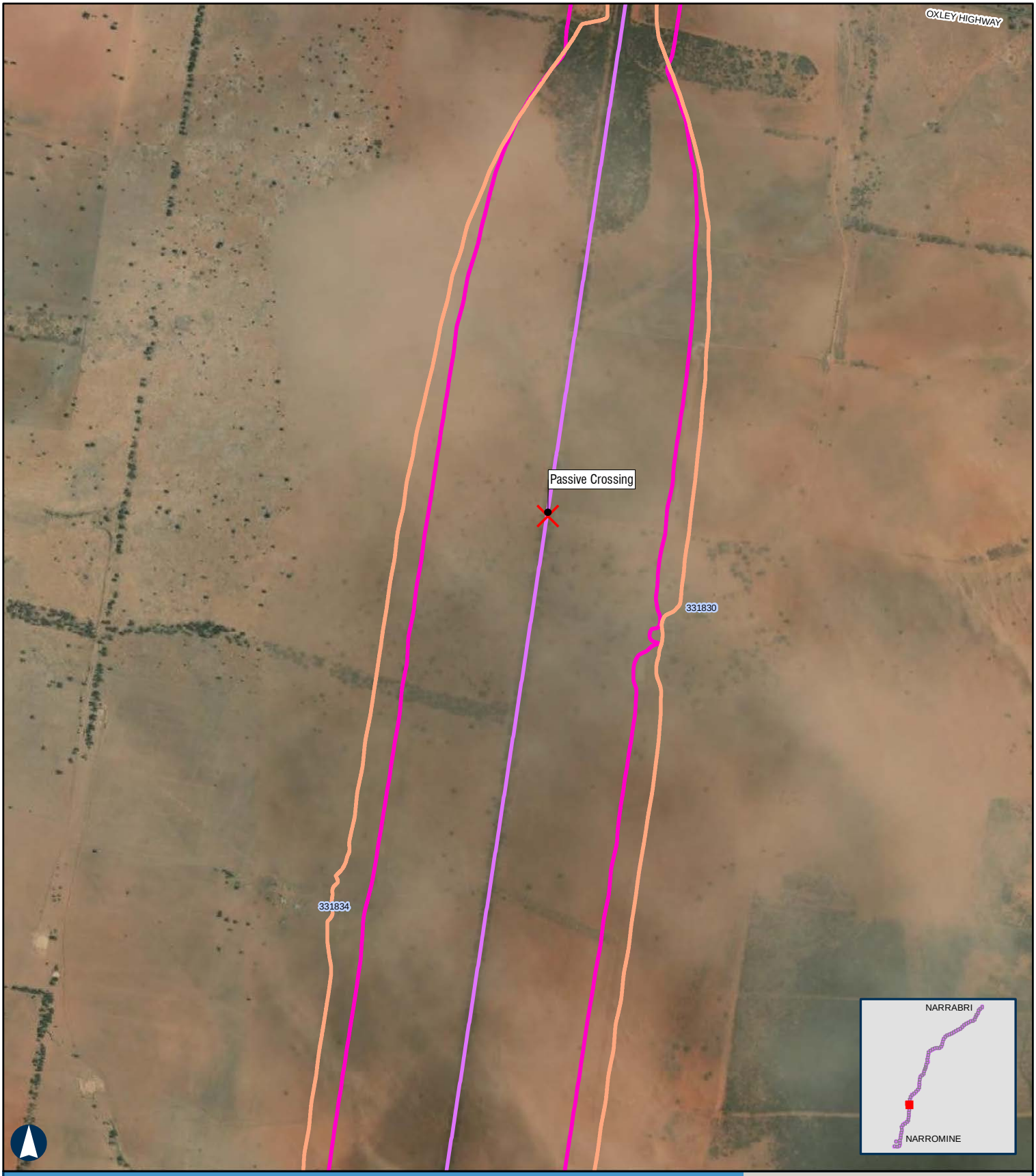
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 95 of 148

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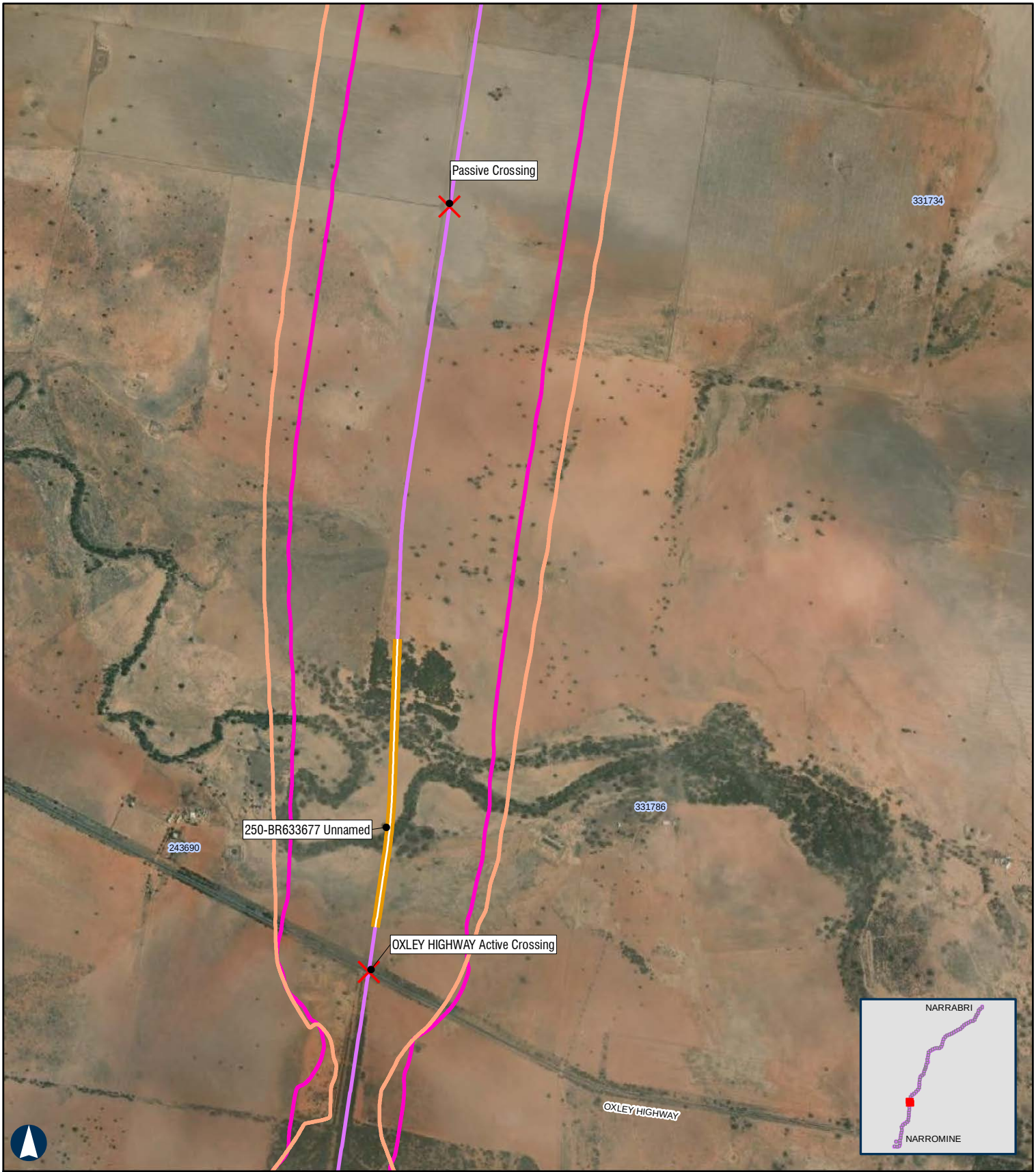
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 96 of 148

500 m

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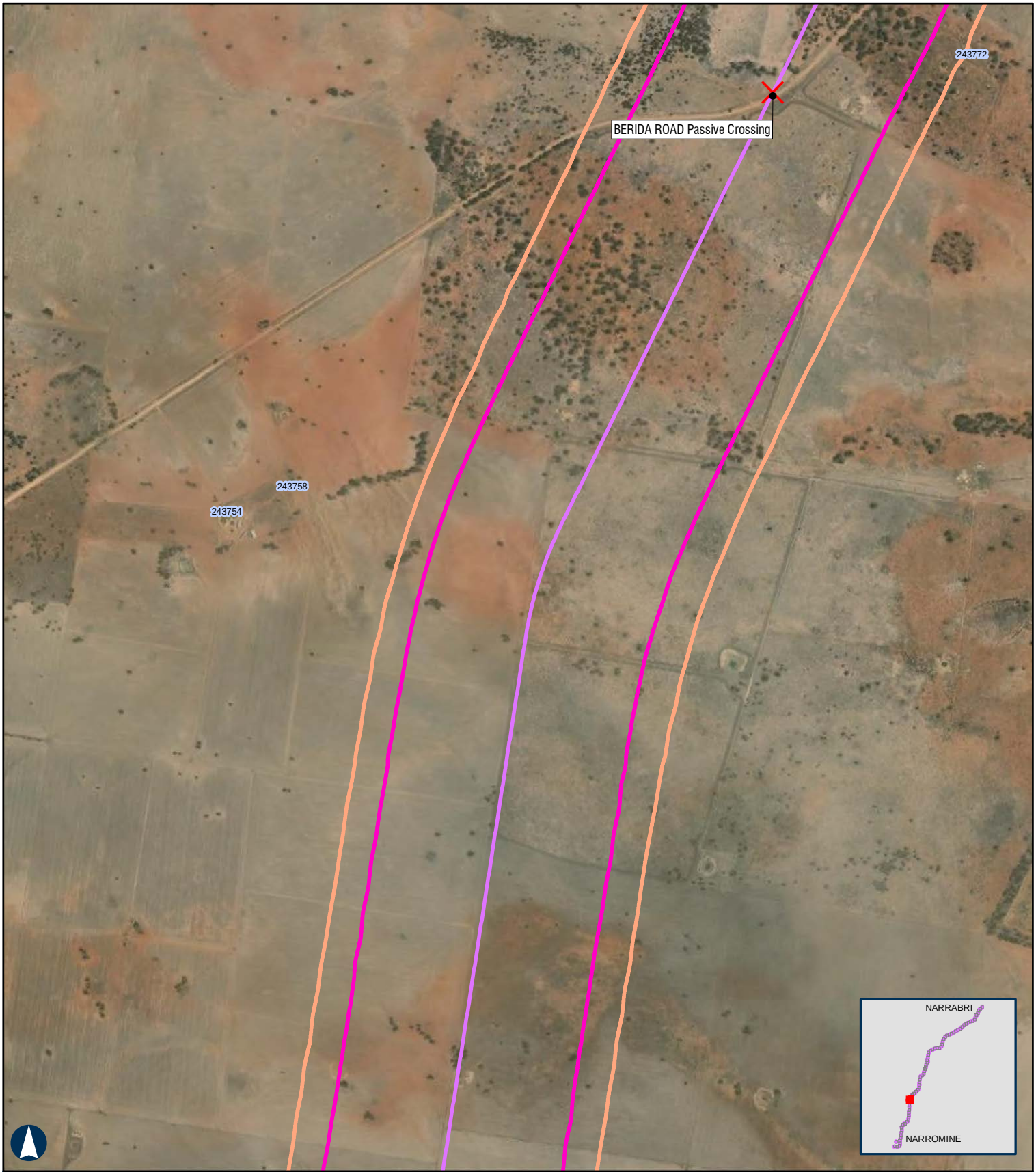
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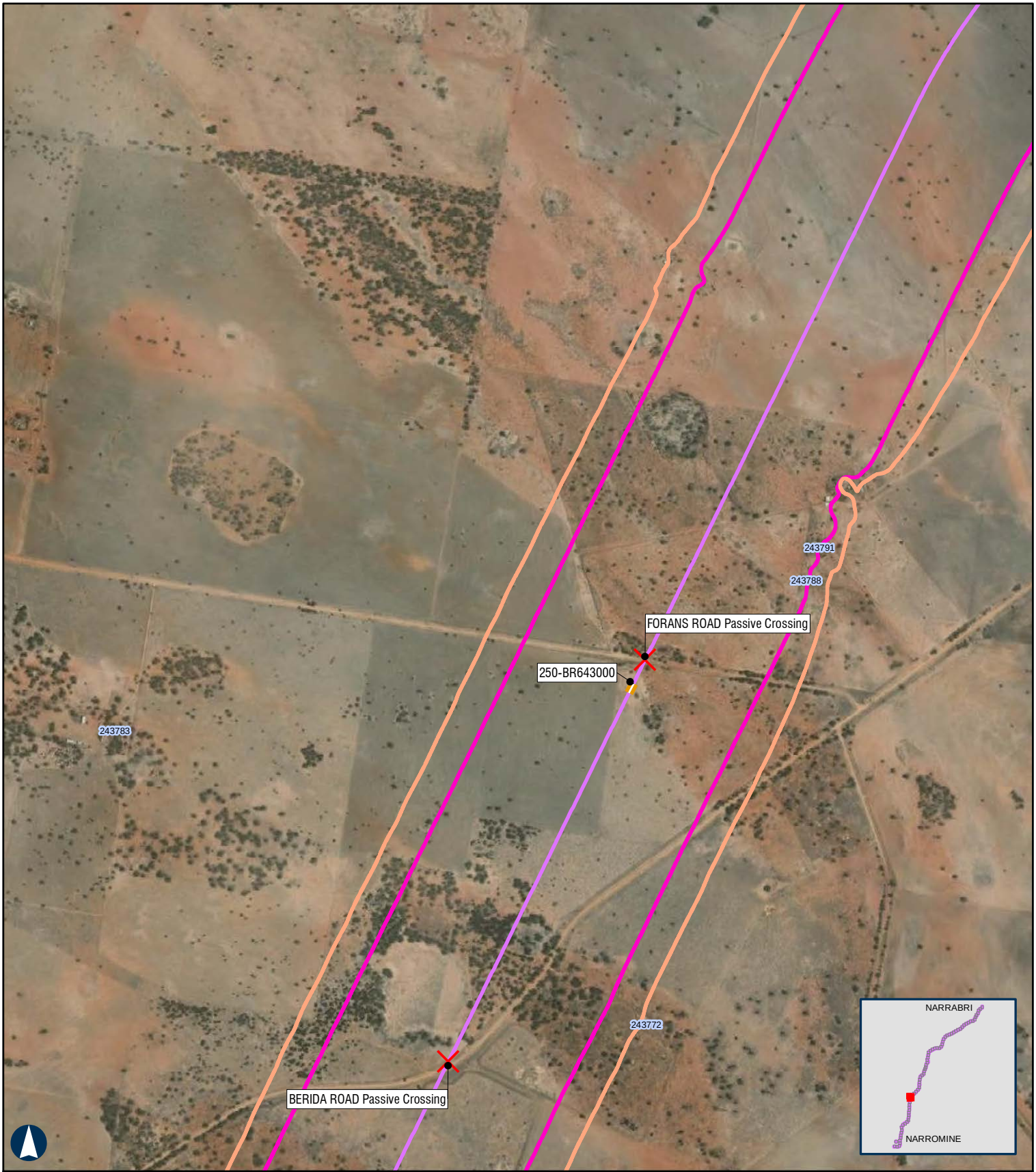
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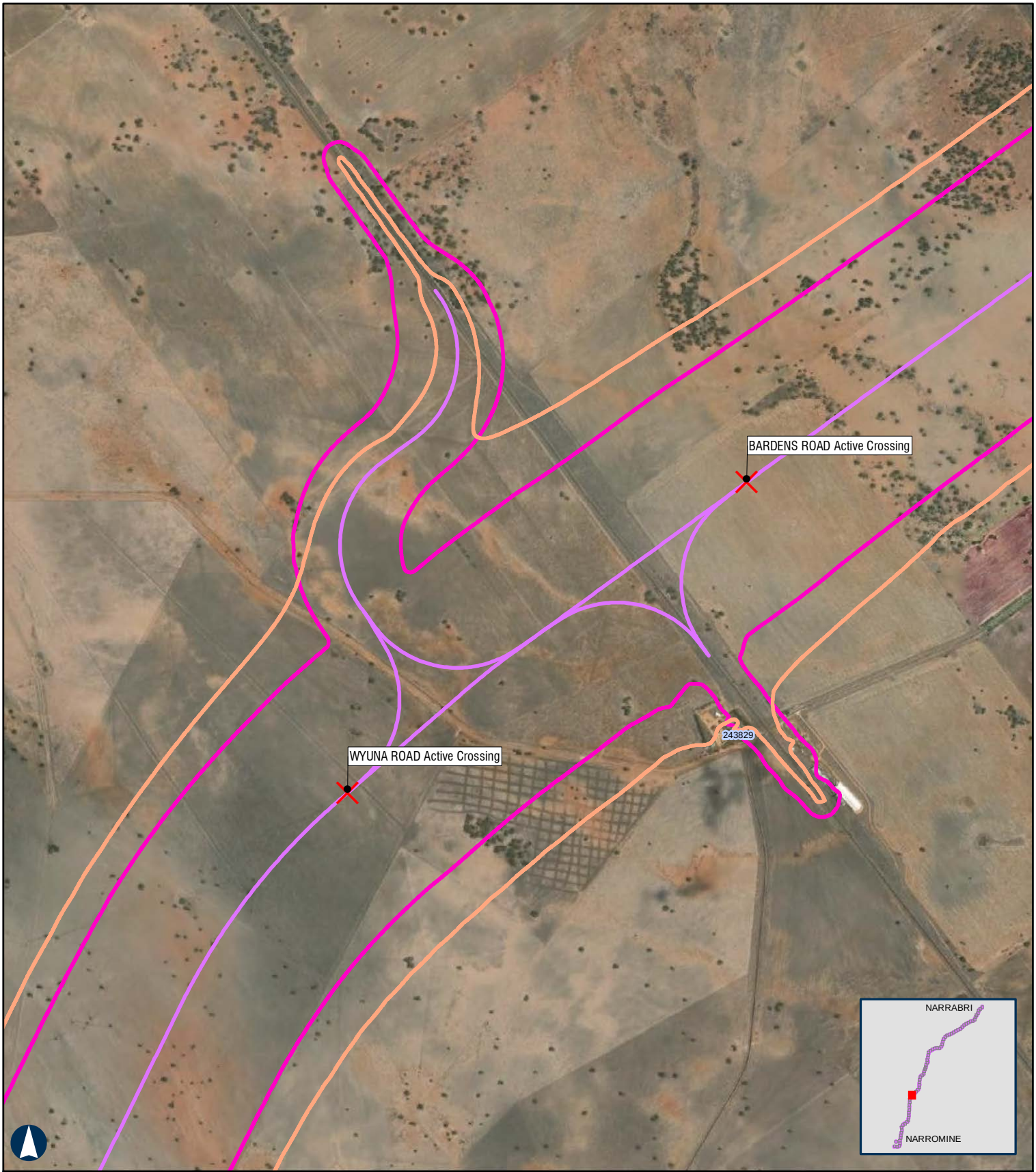
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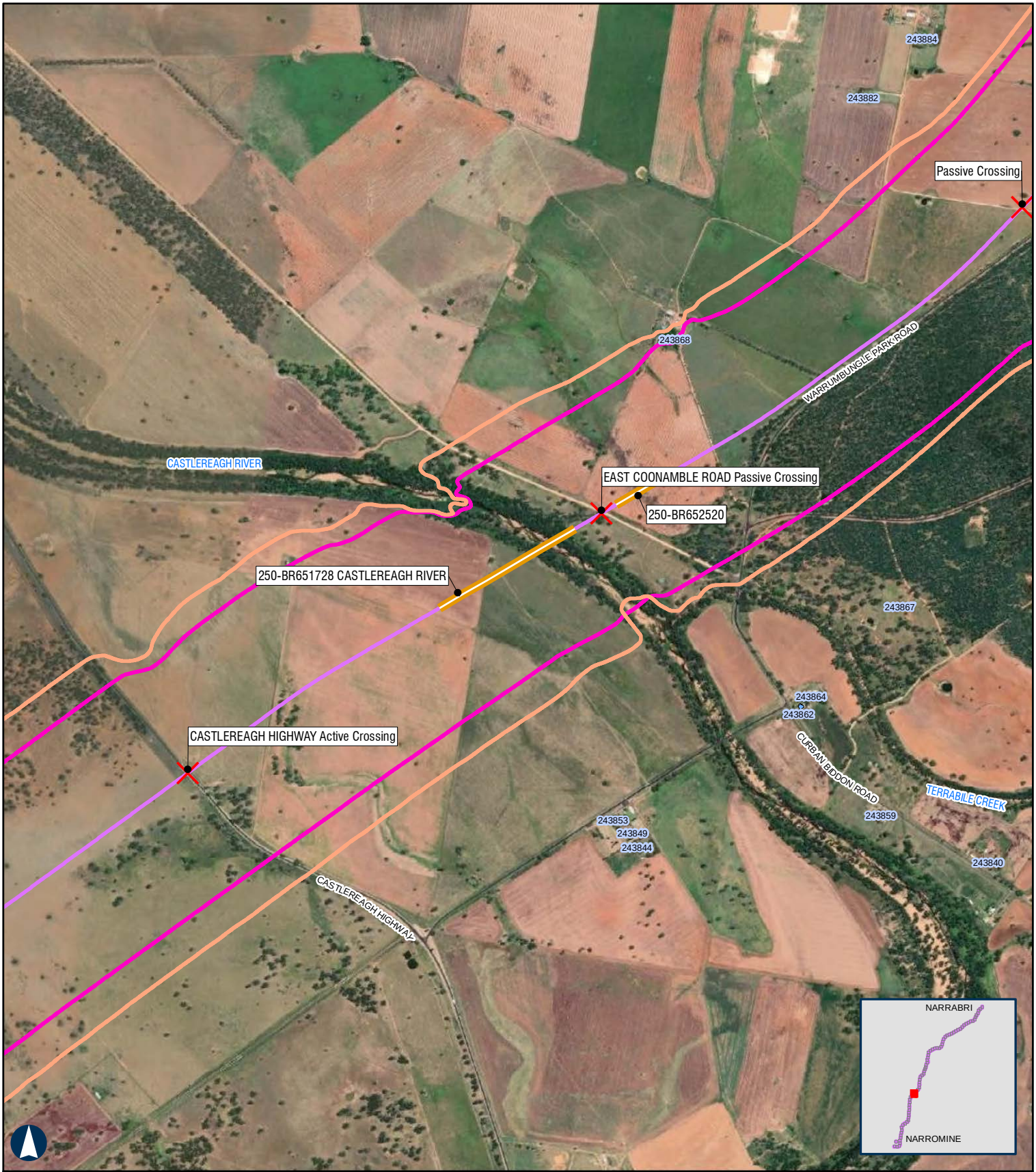
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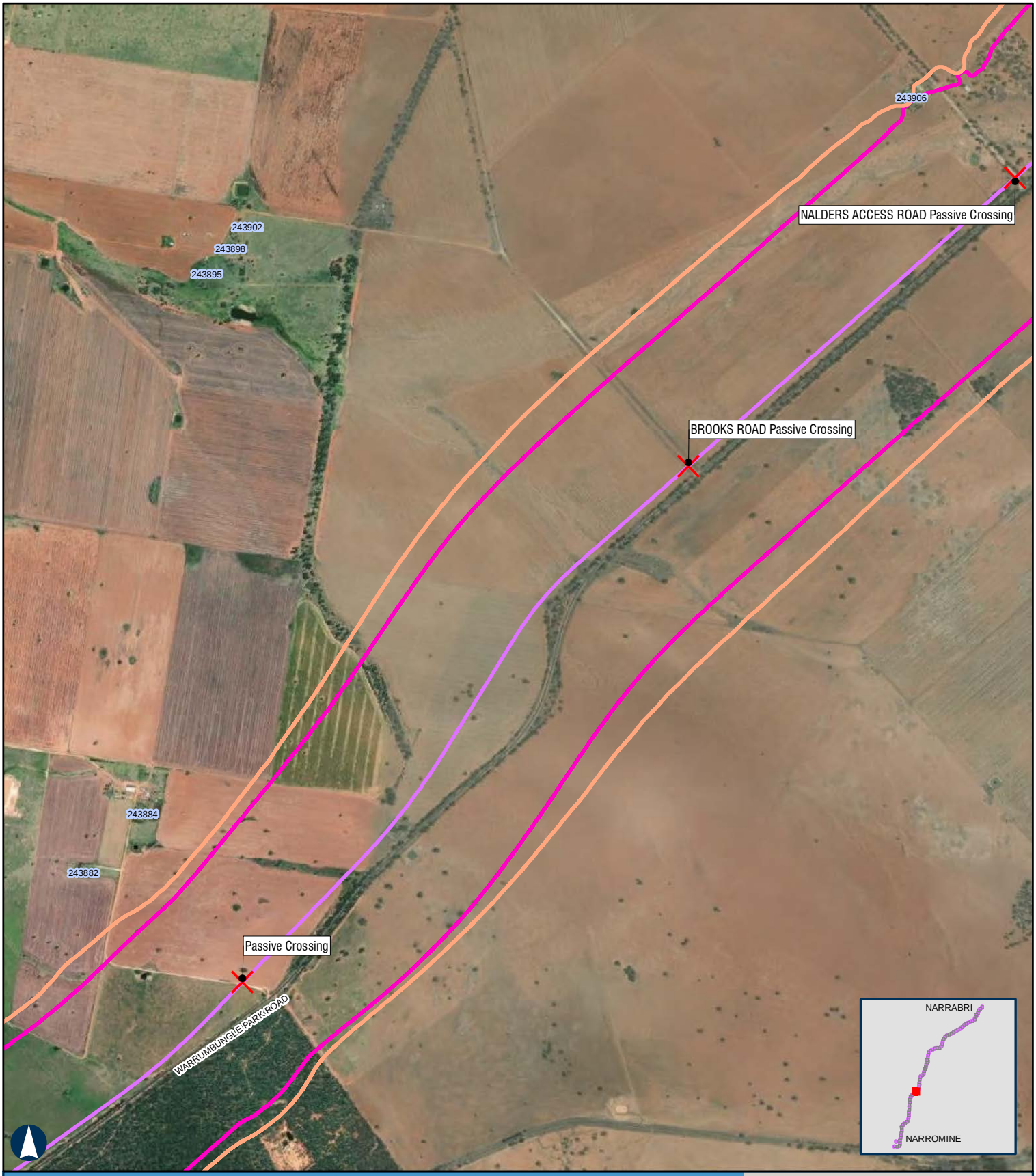
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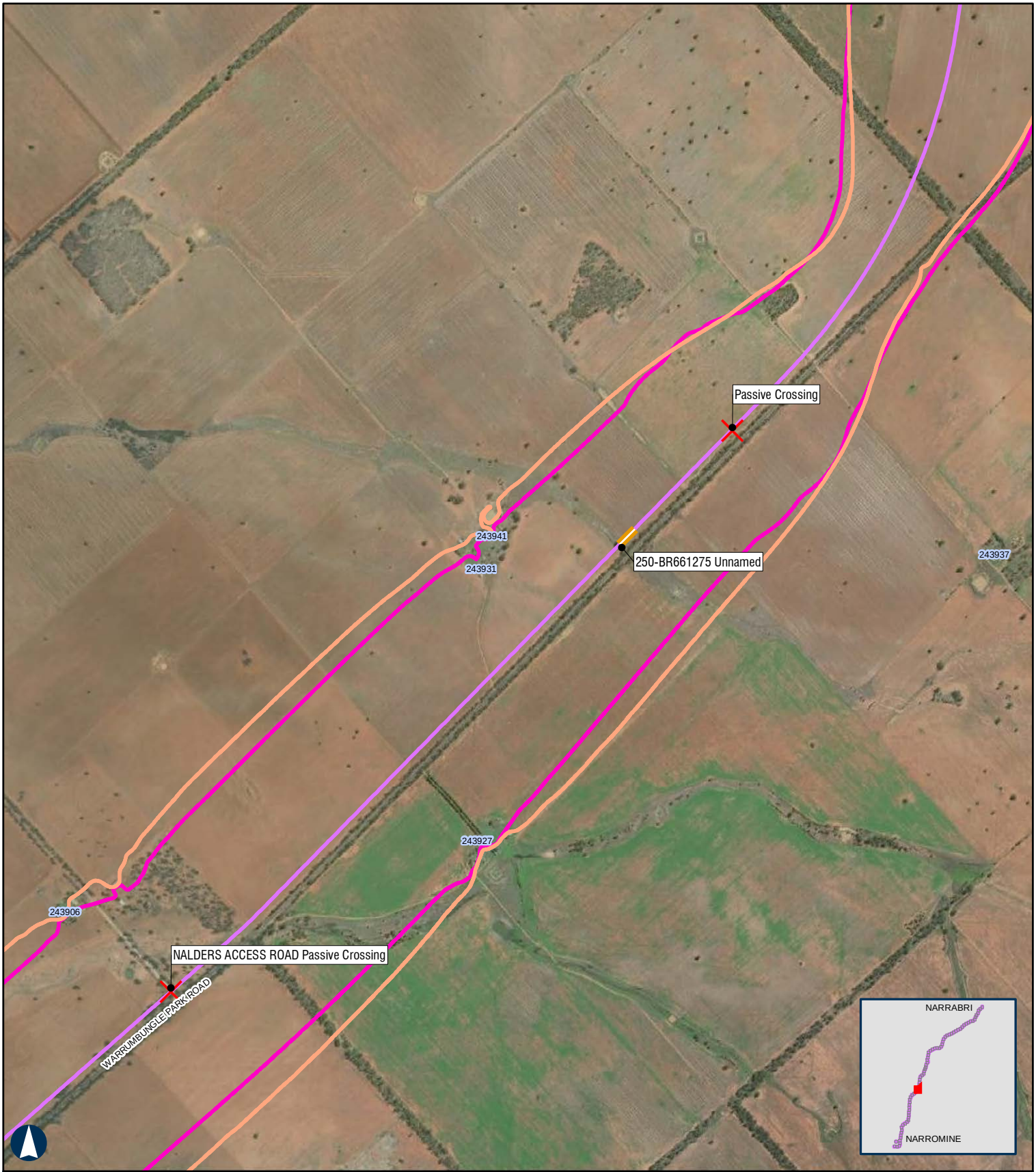
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 102 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

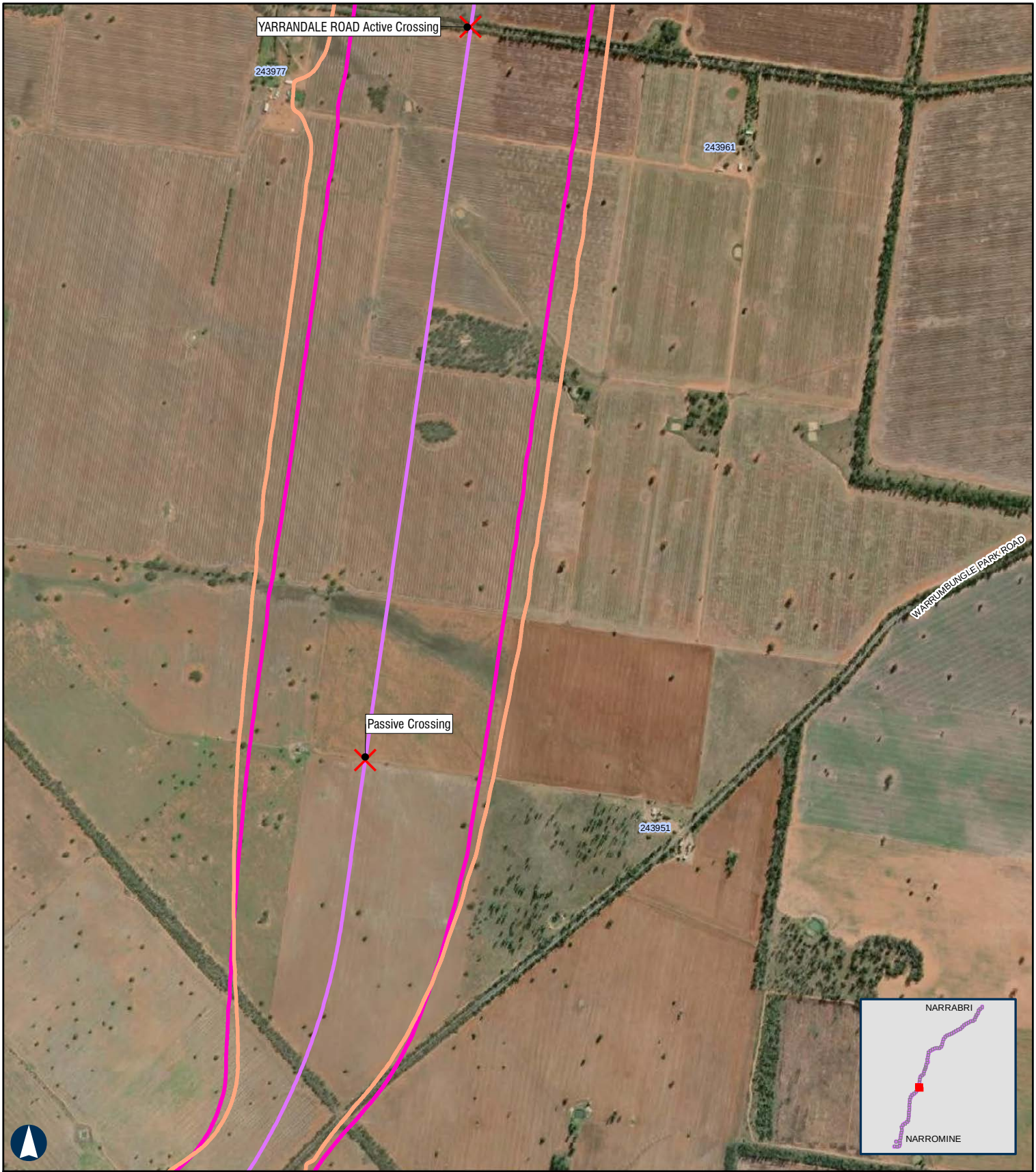
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 103 of 148

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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 104 of 148

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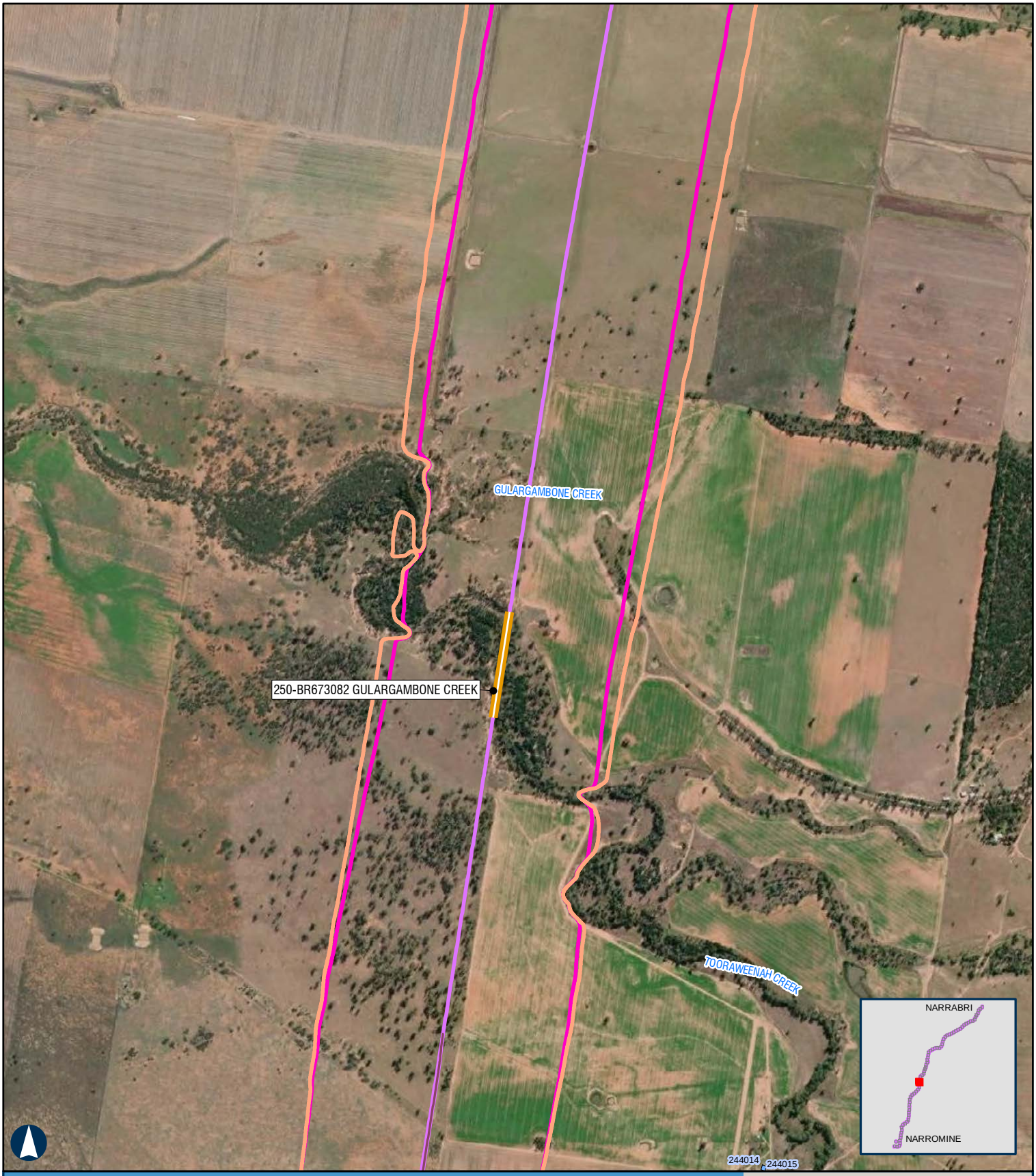
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 105 of 148

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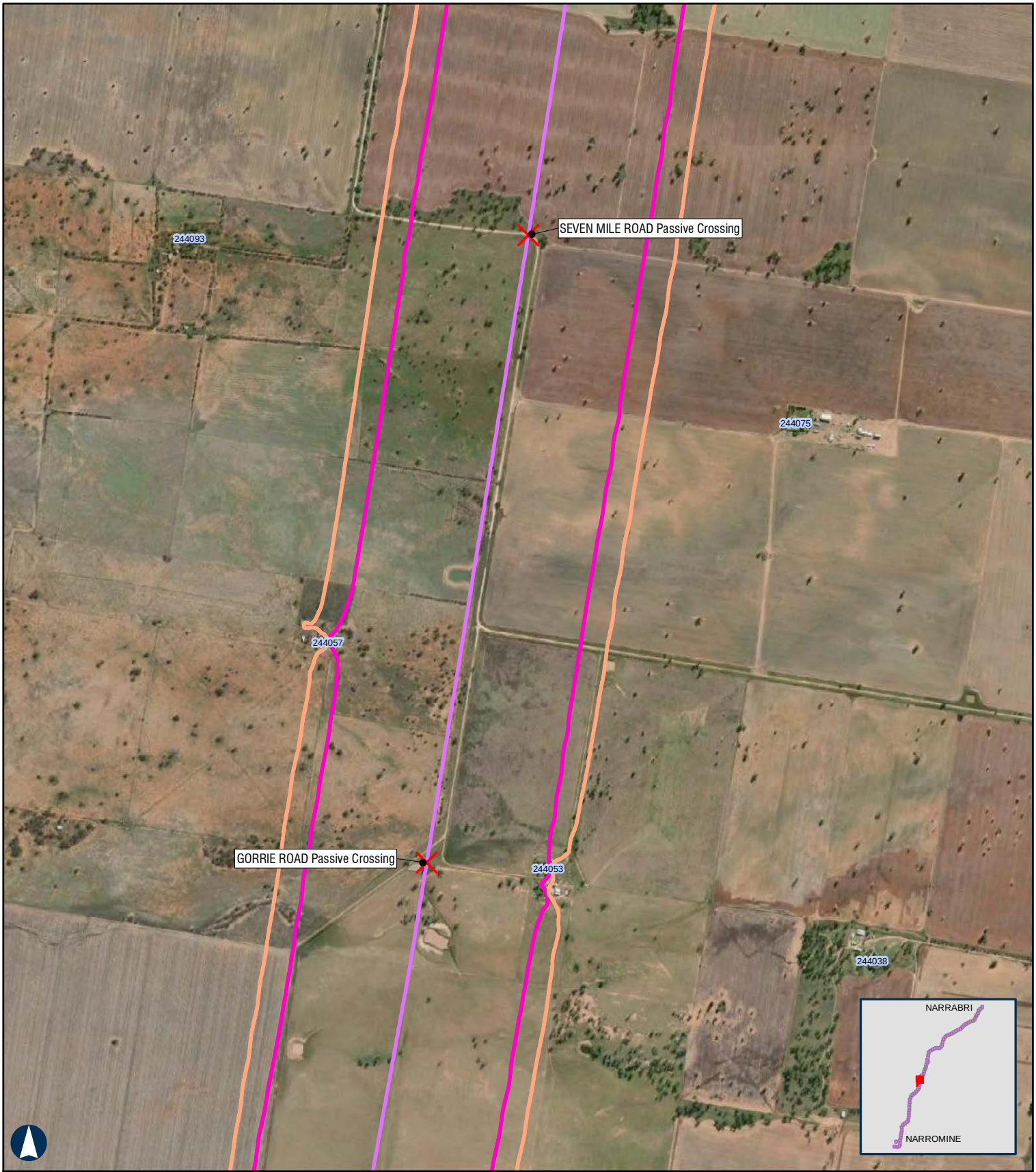
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 106 of 148

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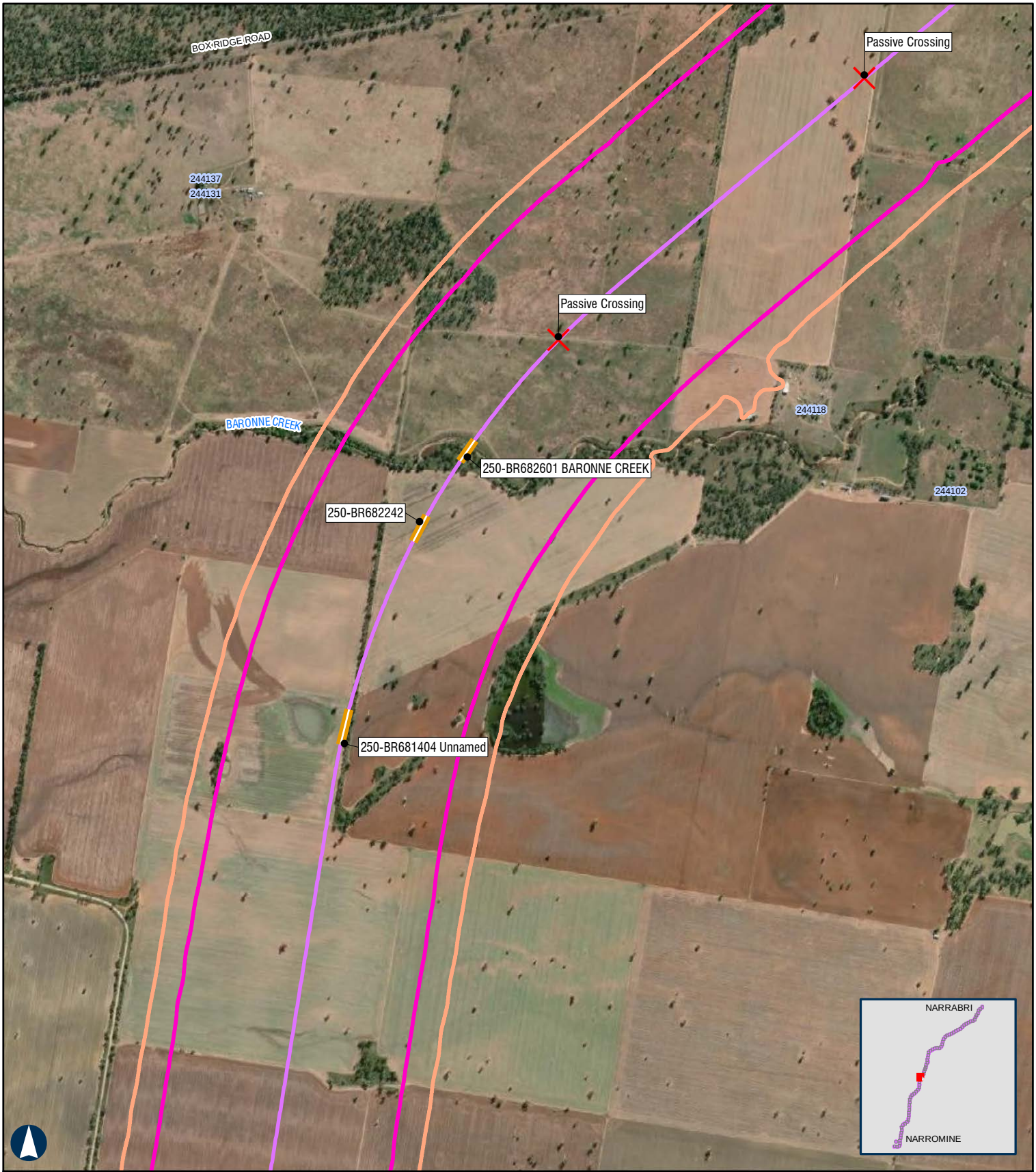
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 107 of 148

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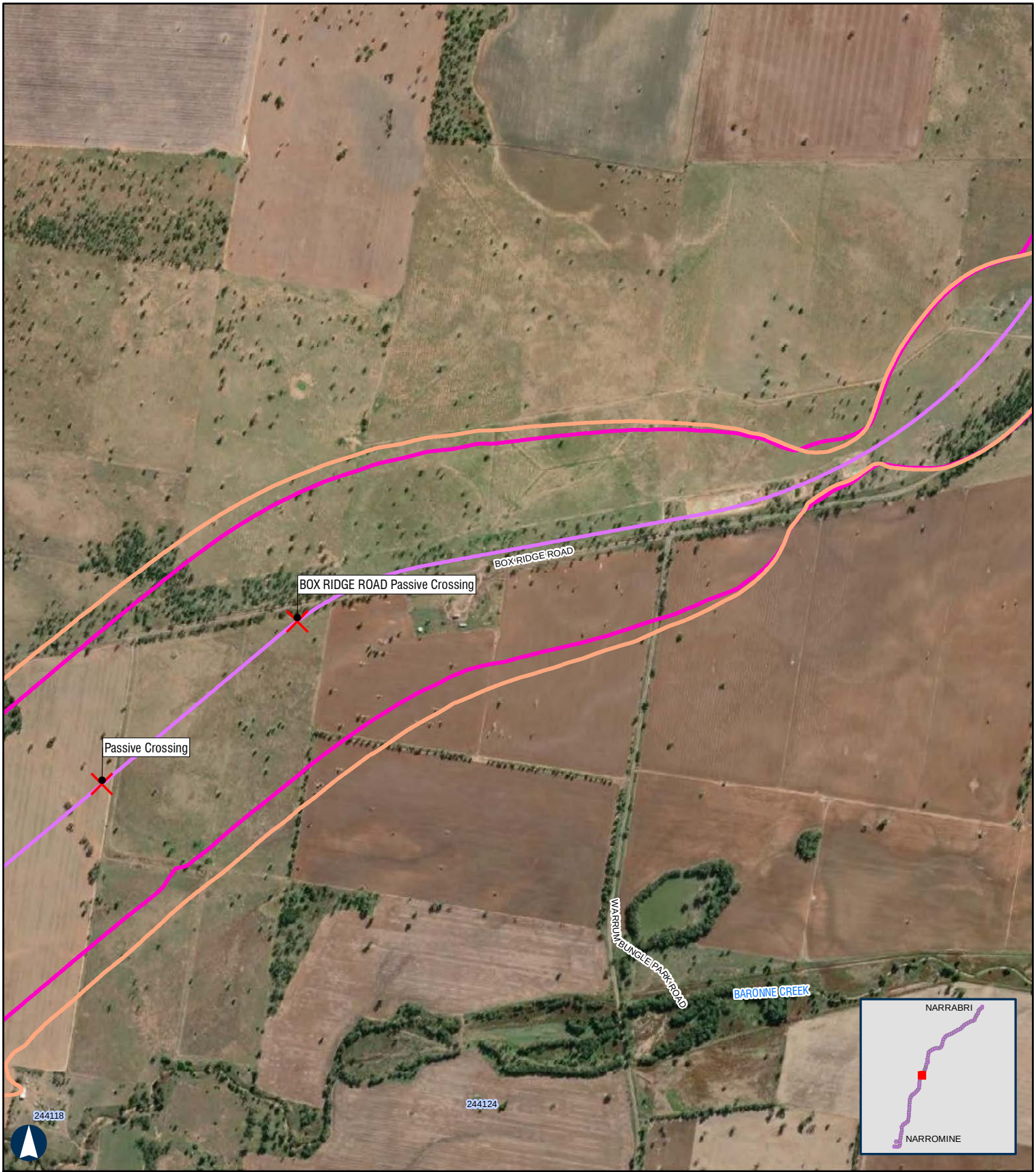
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 108 of 148

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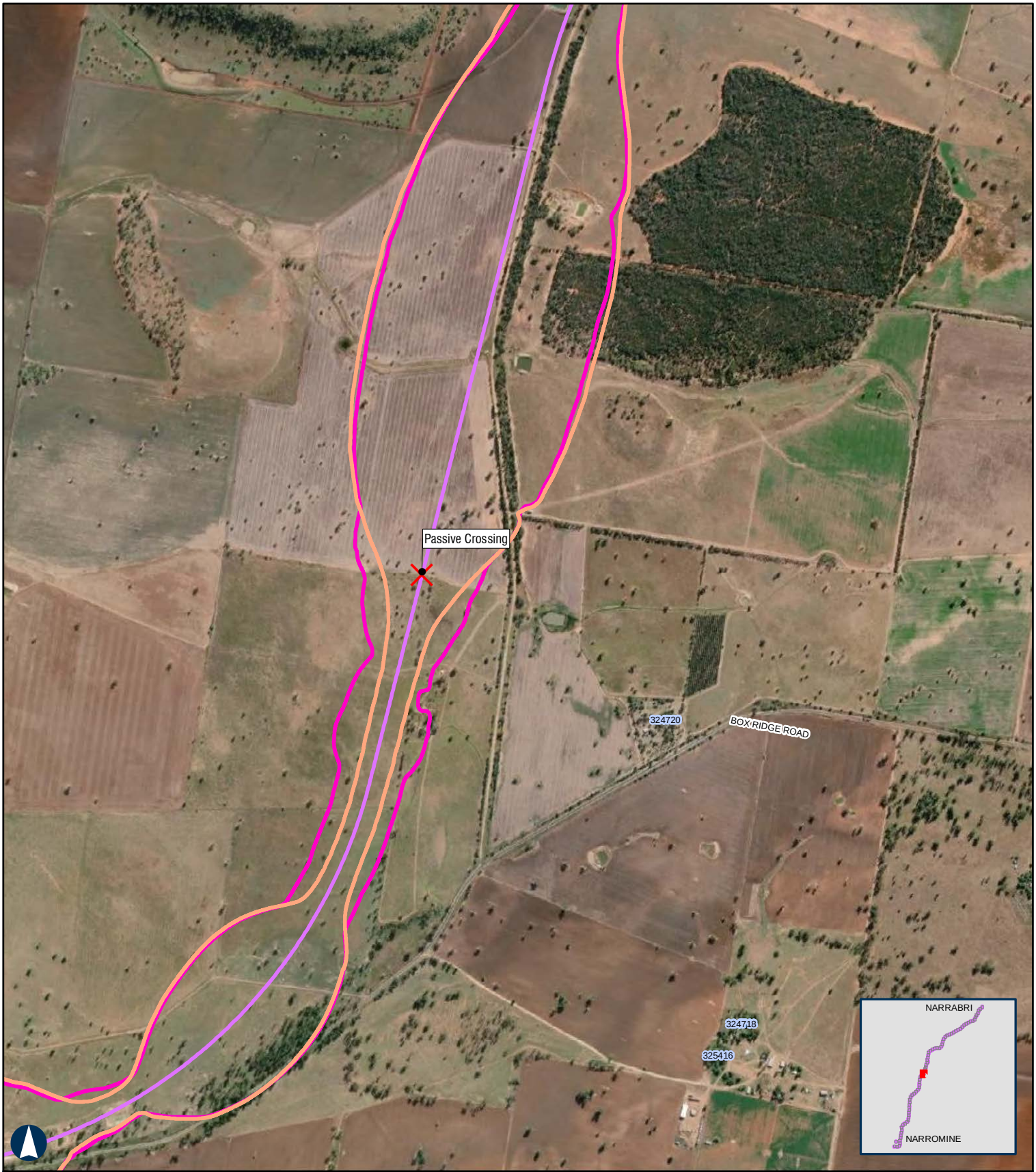
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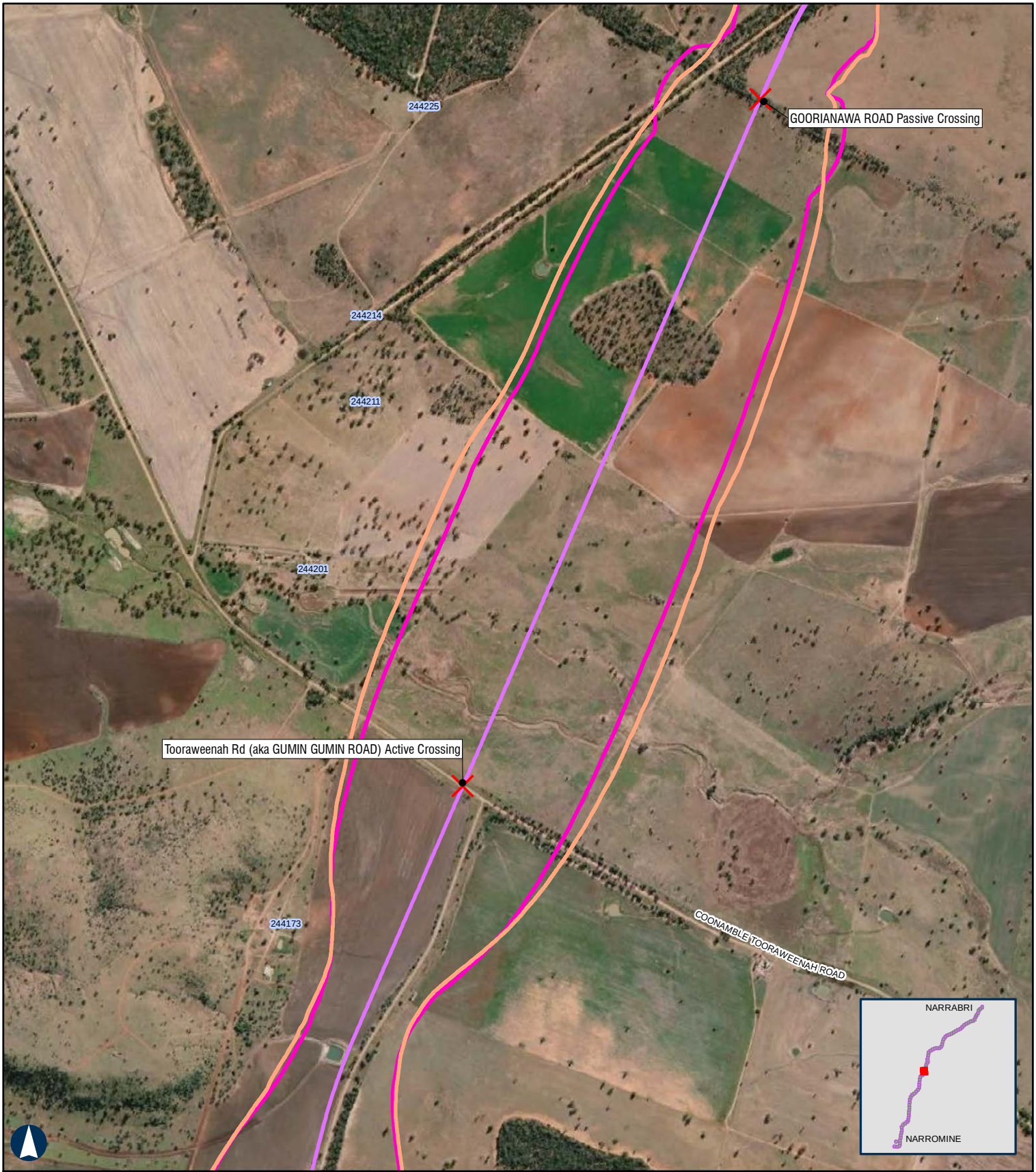
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 110 of 148

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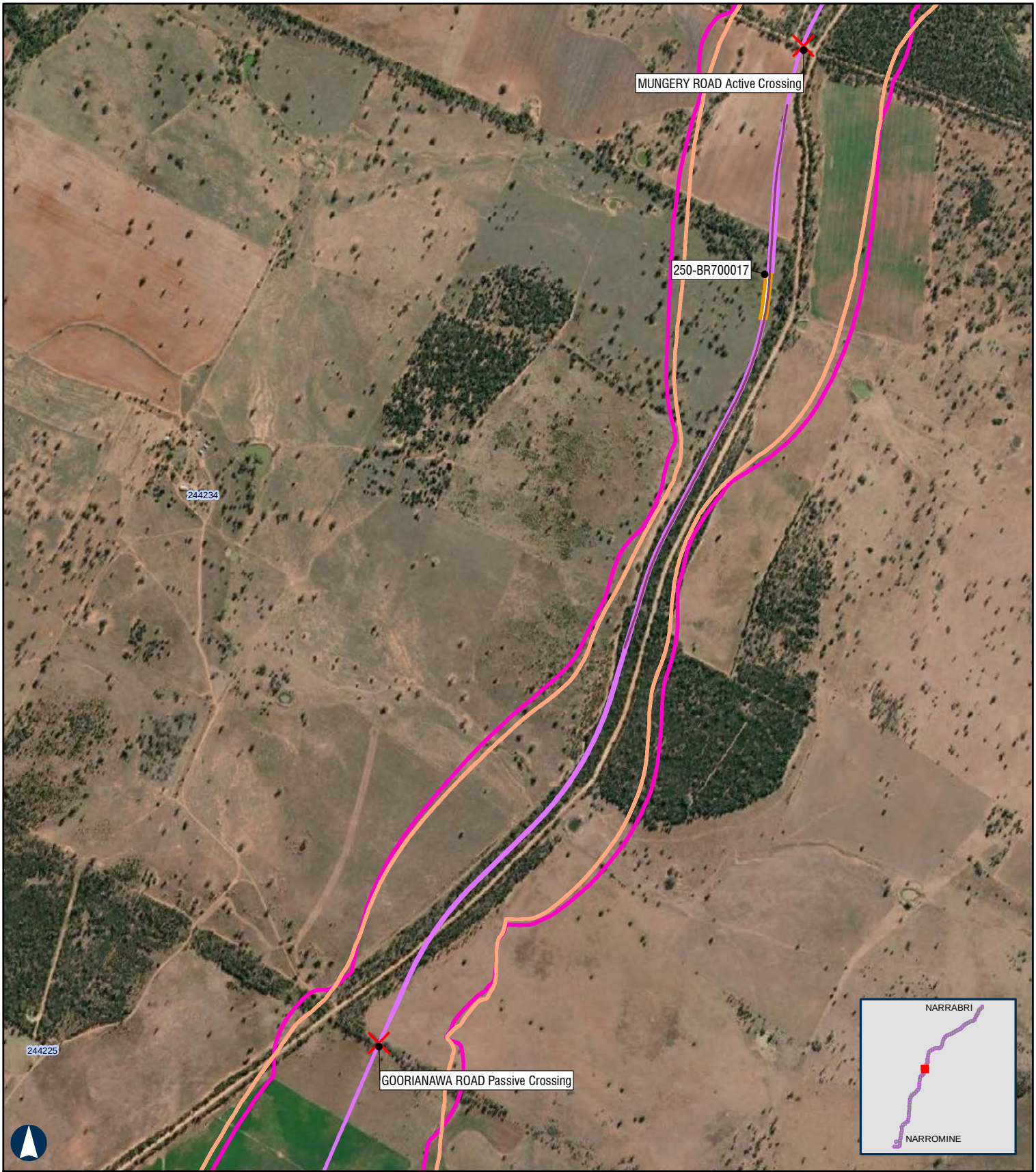
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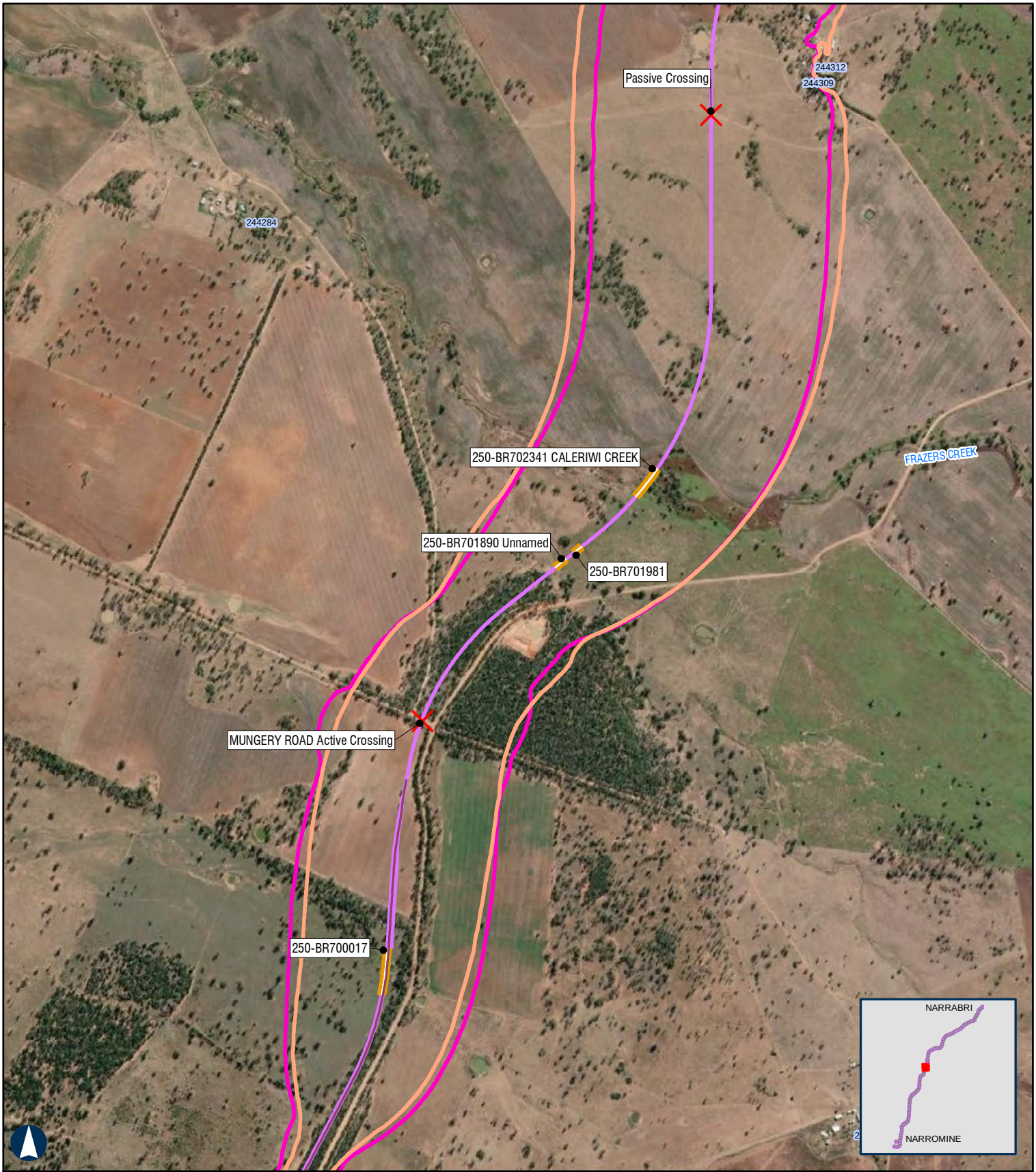
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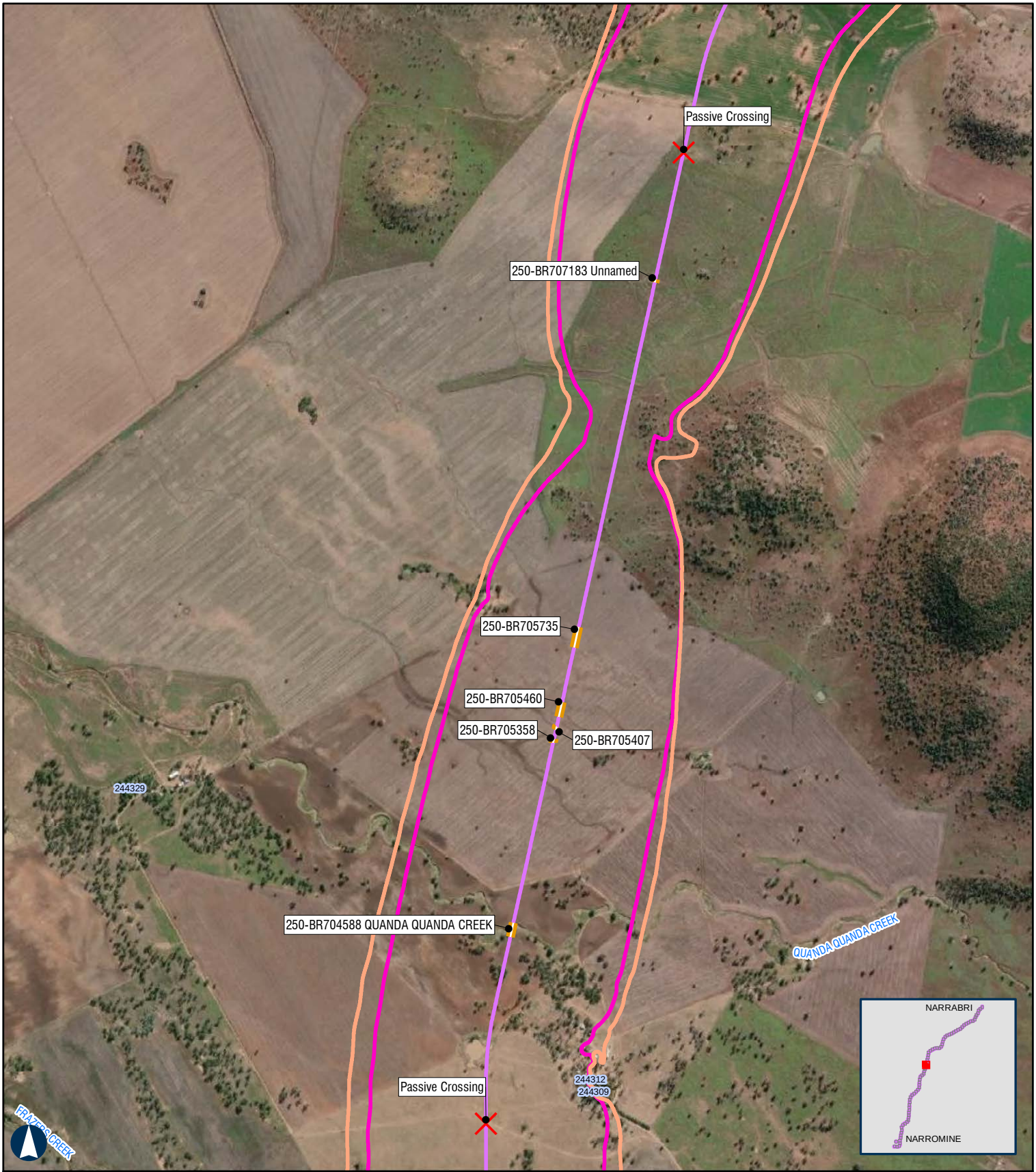
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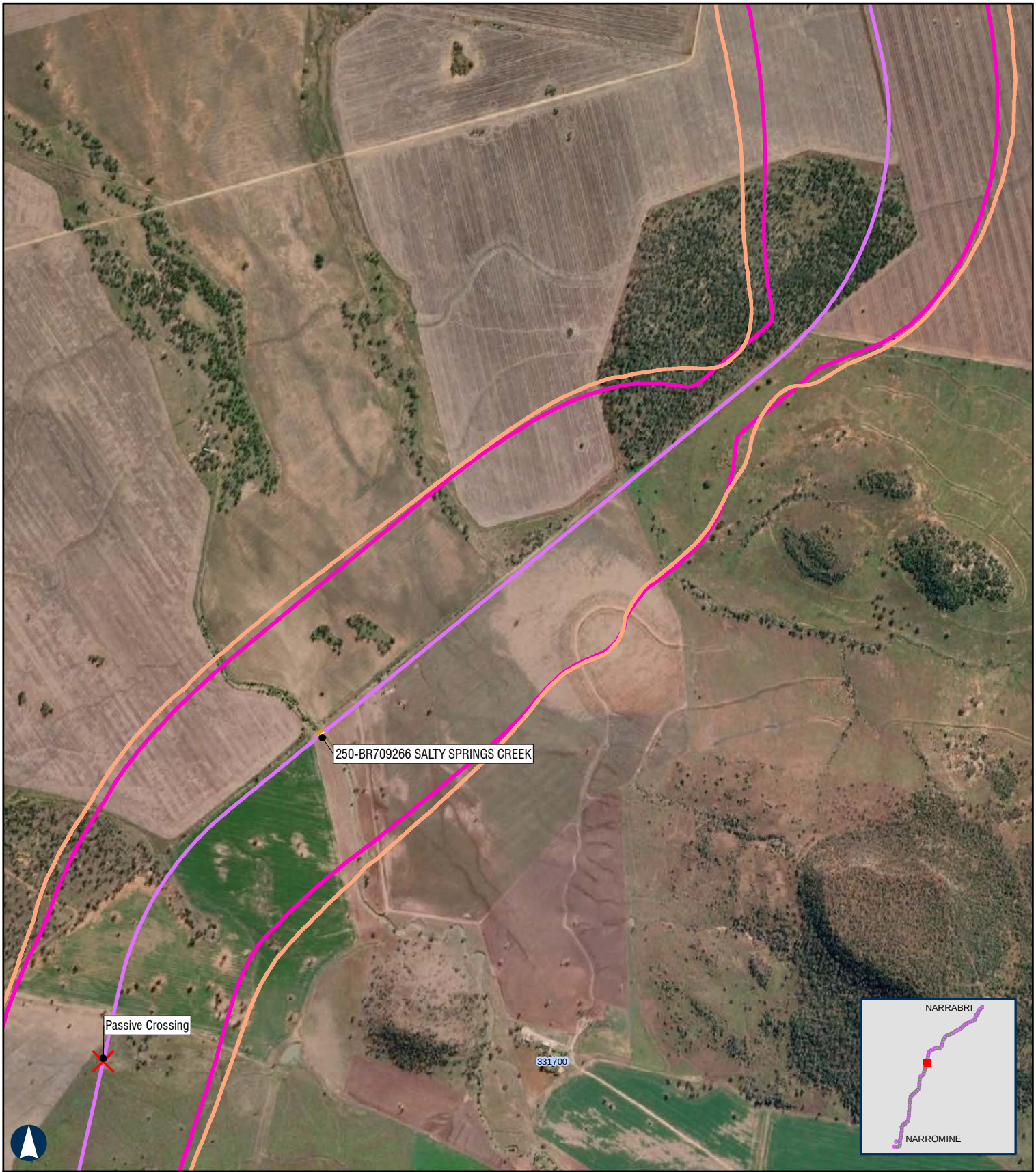
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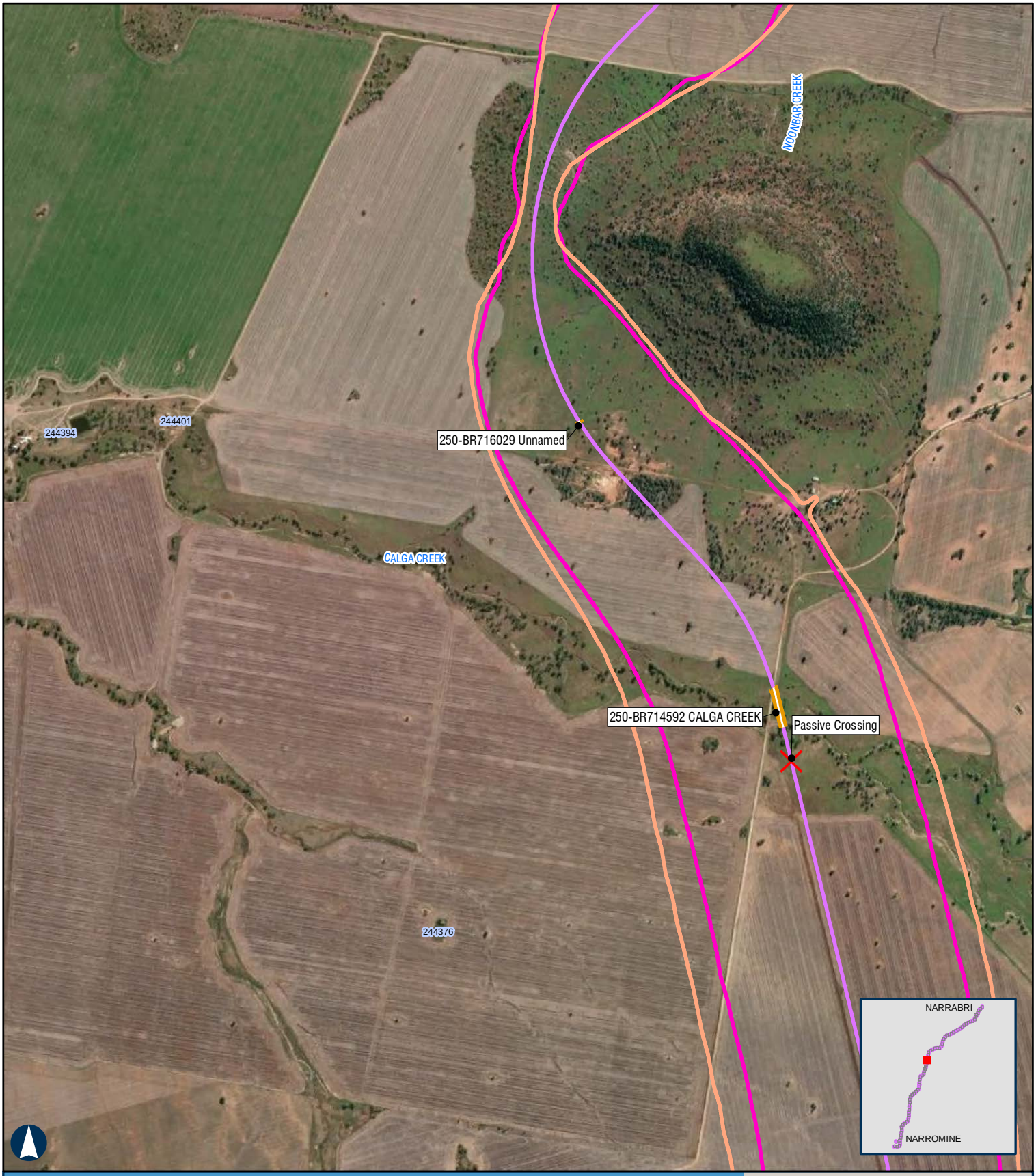
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NARROMINE TO NARRABRI Year 2026 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

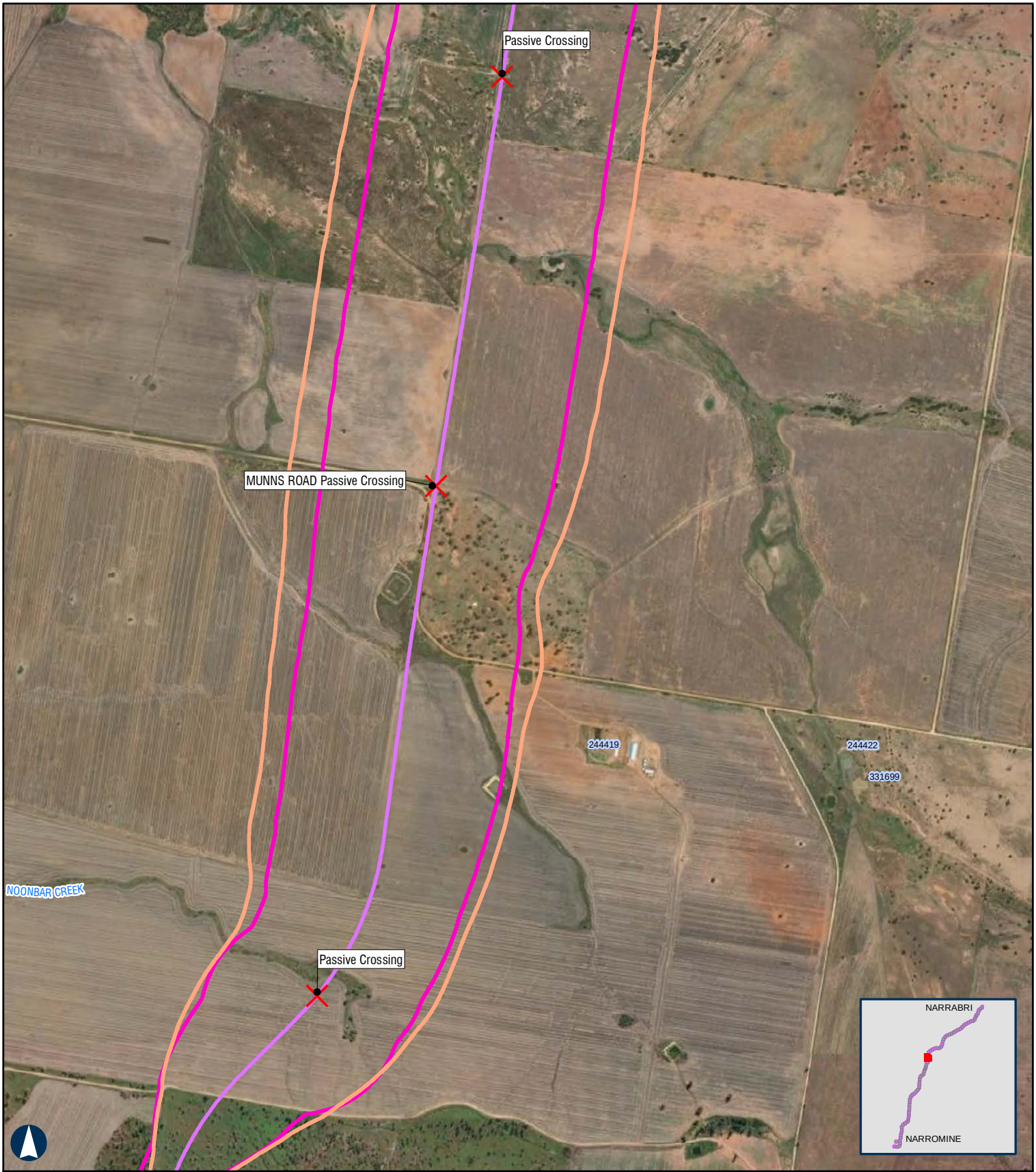
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 116 of 148

500 m

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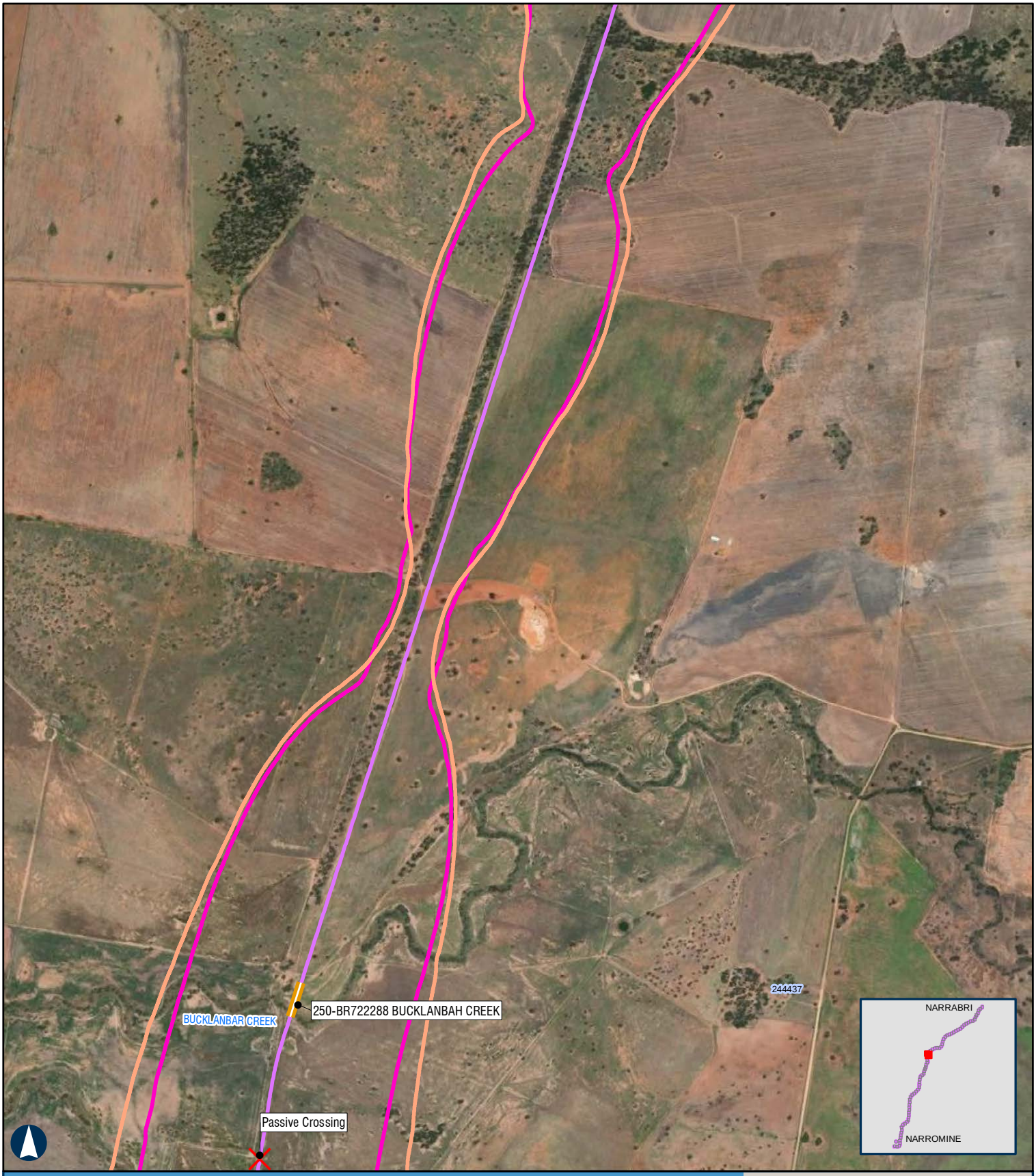
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 117 of 148

500 m

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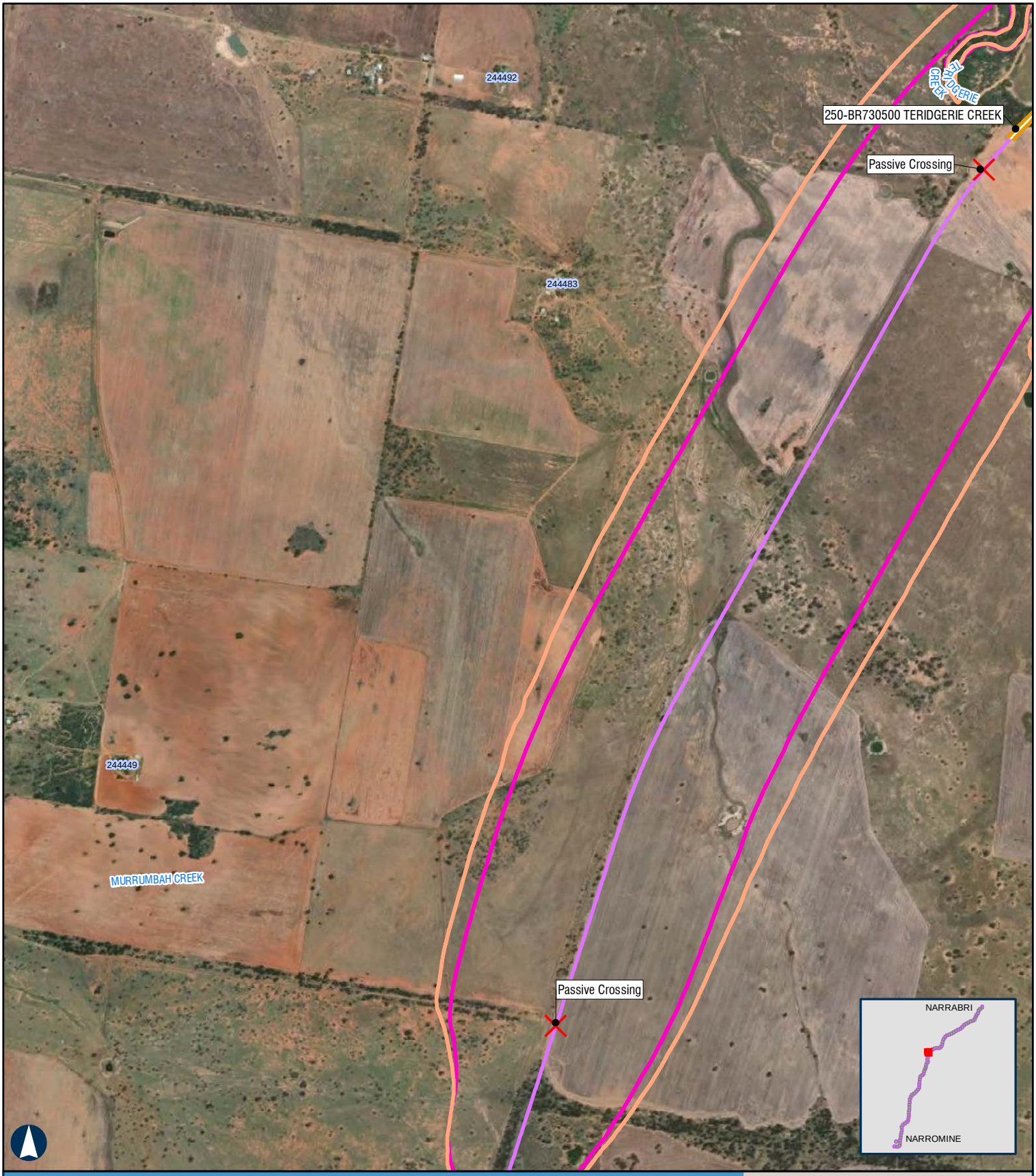
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 118 of 148

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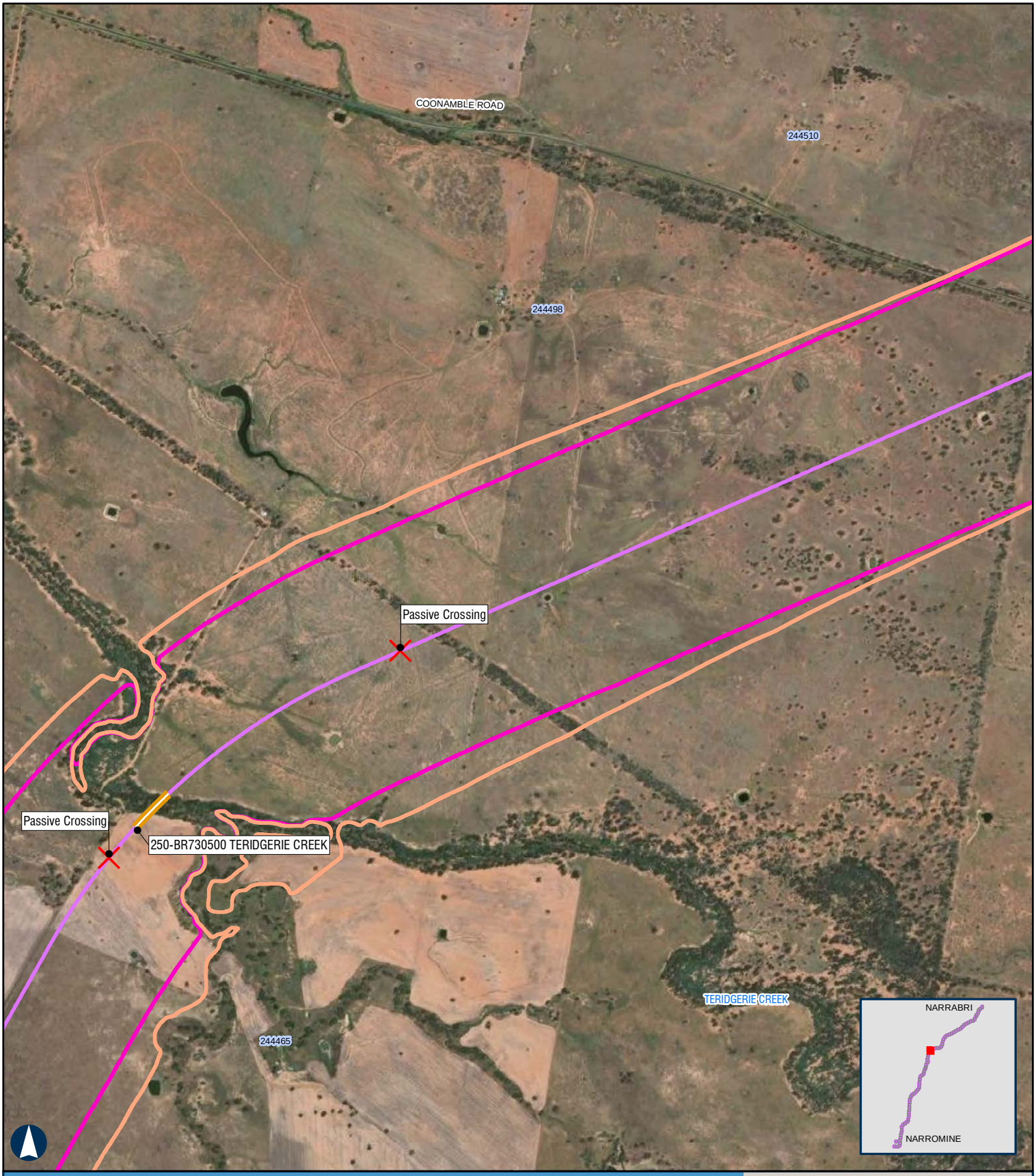
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 119 of 148

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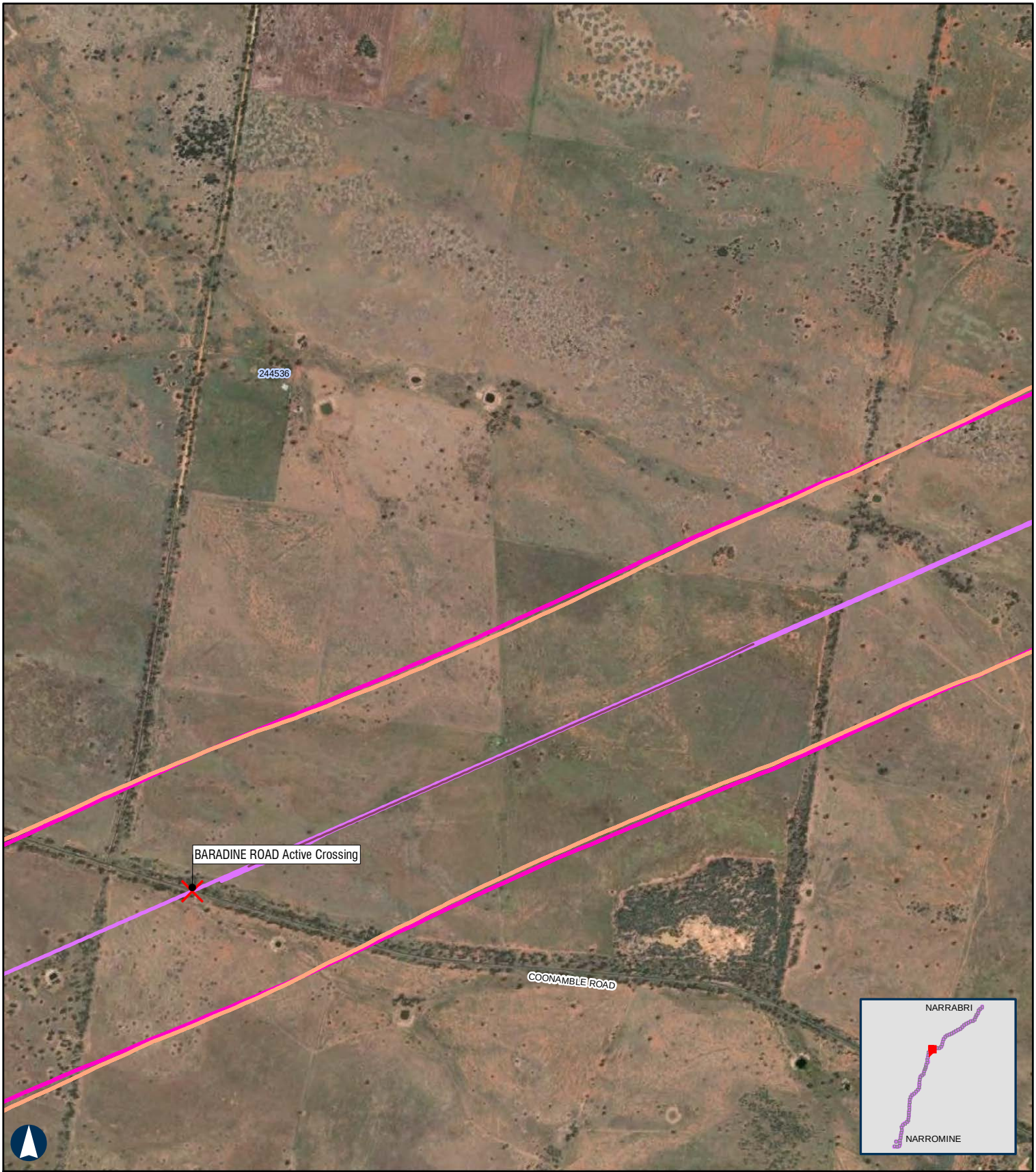
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Year 2026 Night-time Rail Noise Levels

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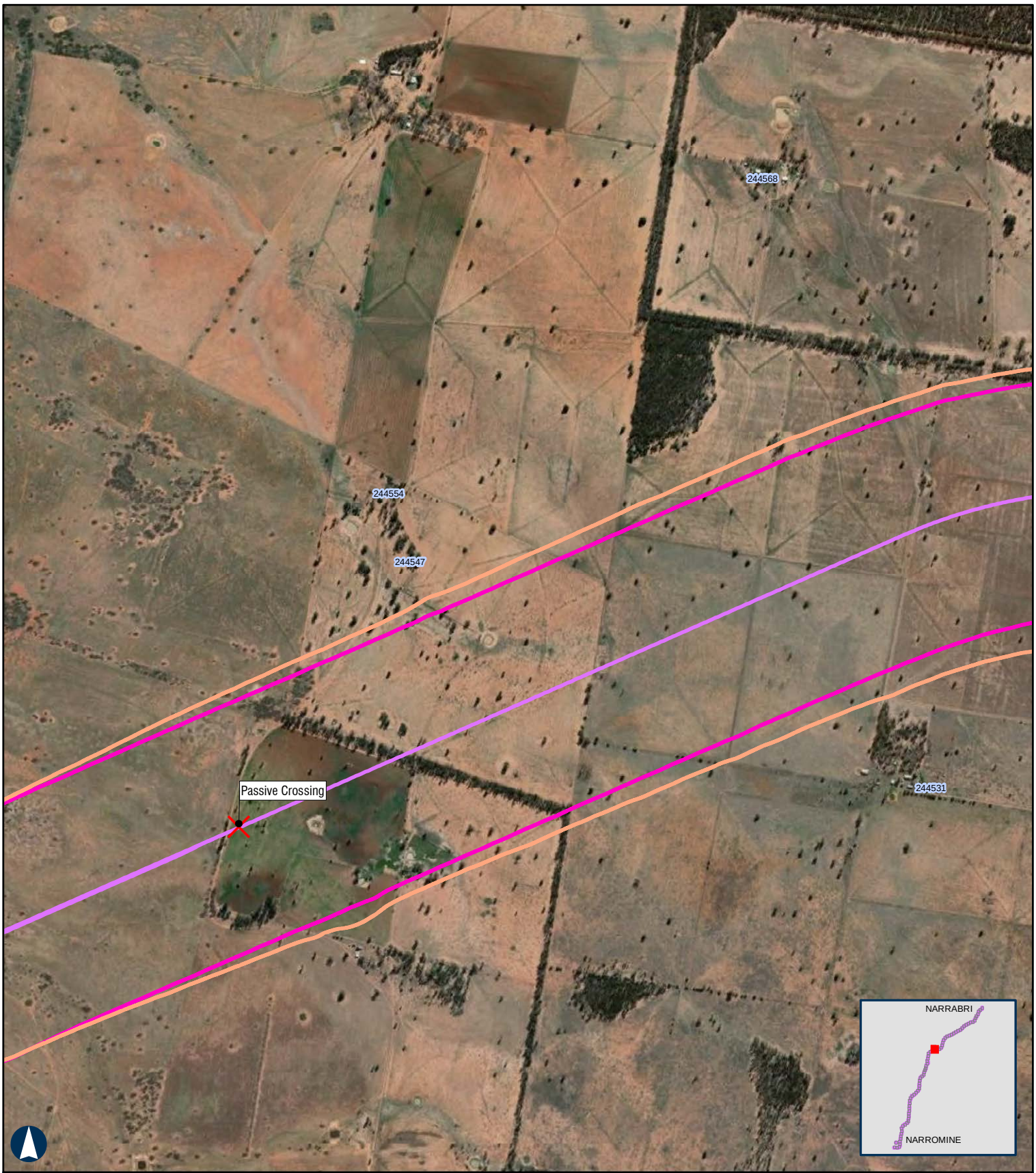
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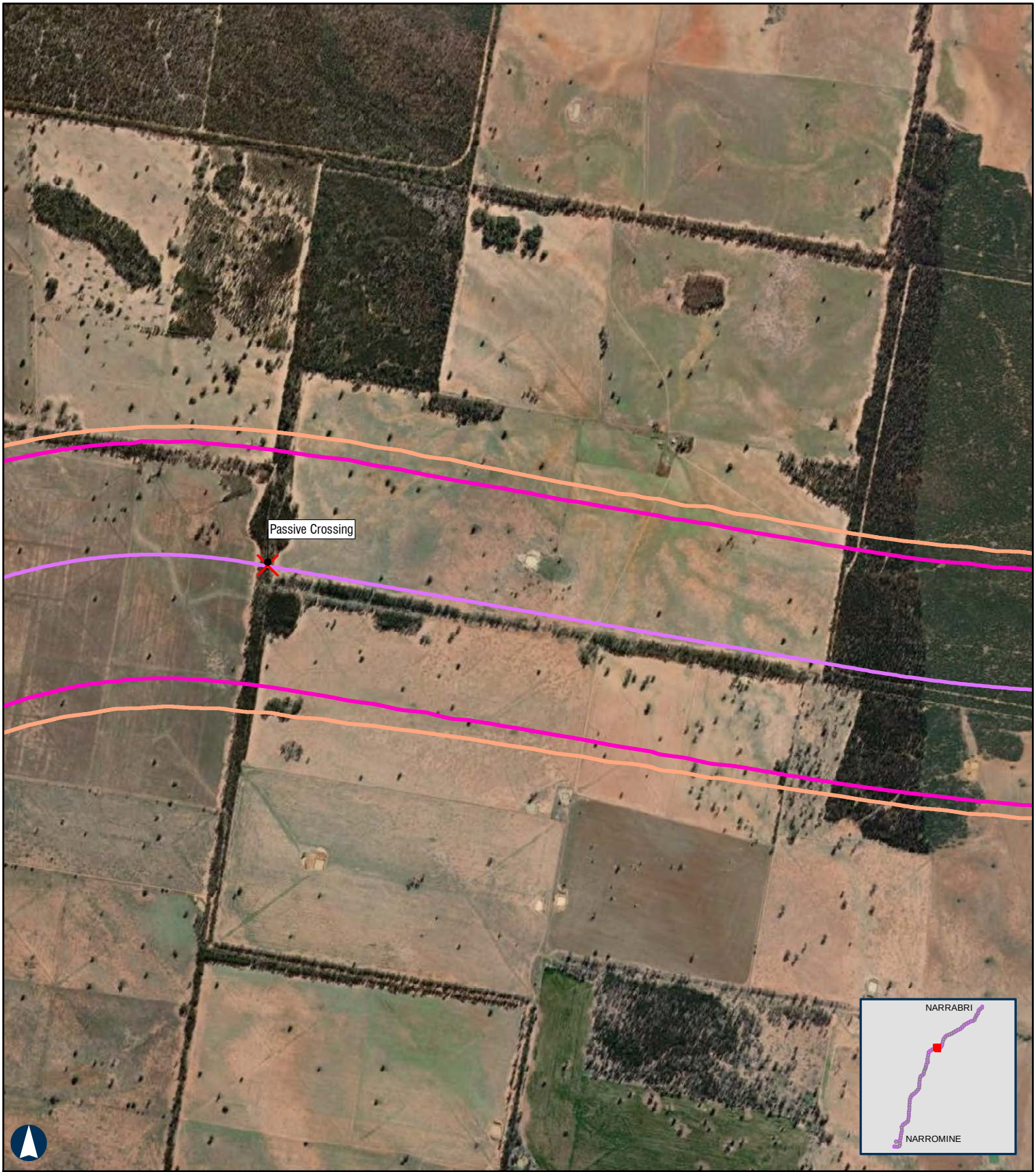
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 122 of 148

500 m

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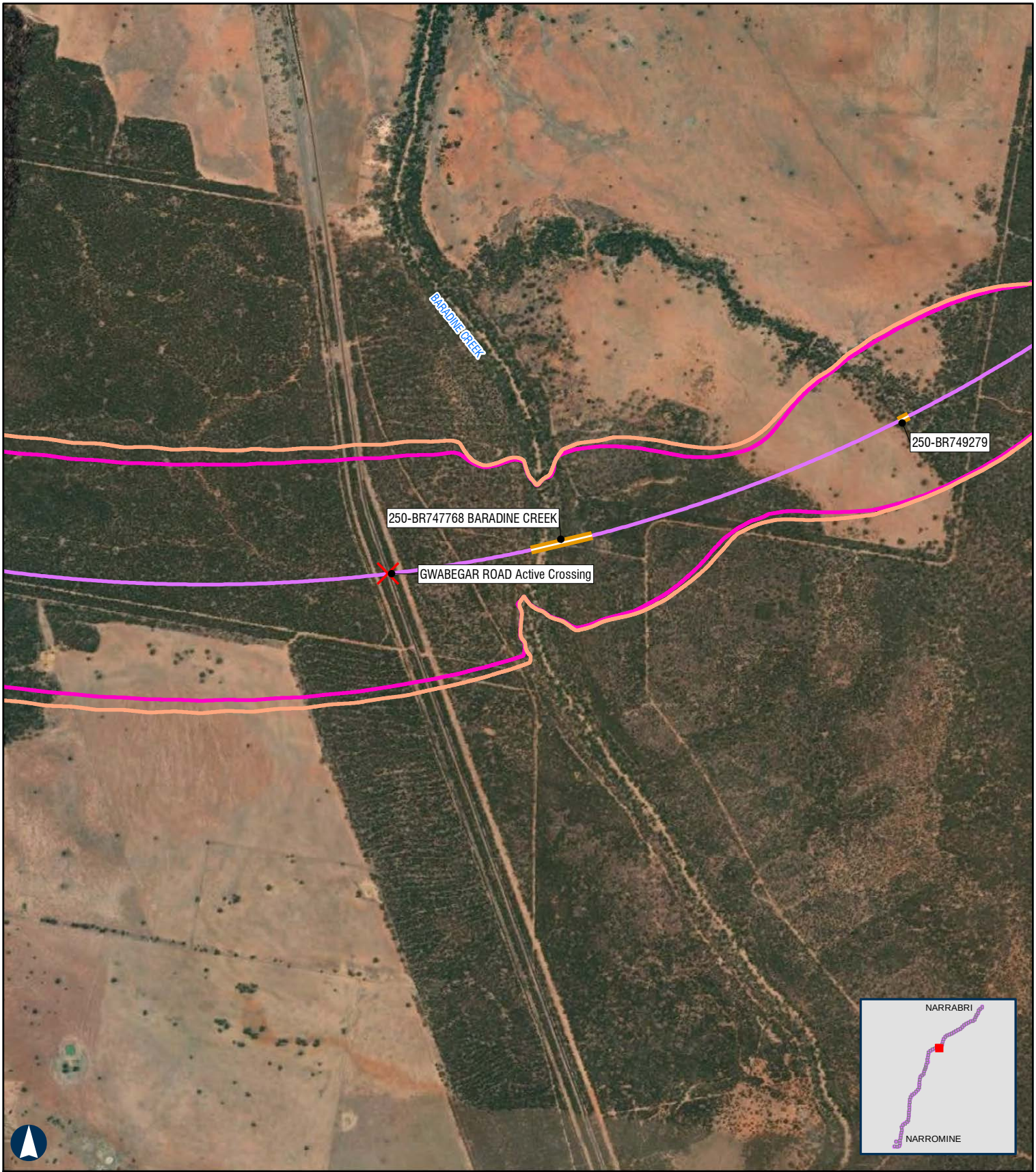
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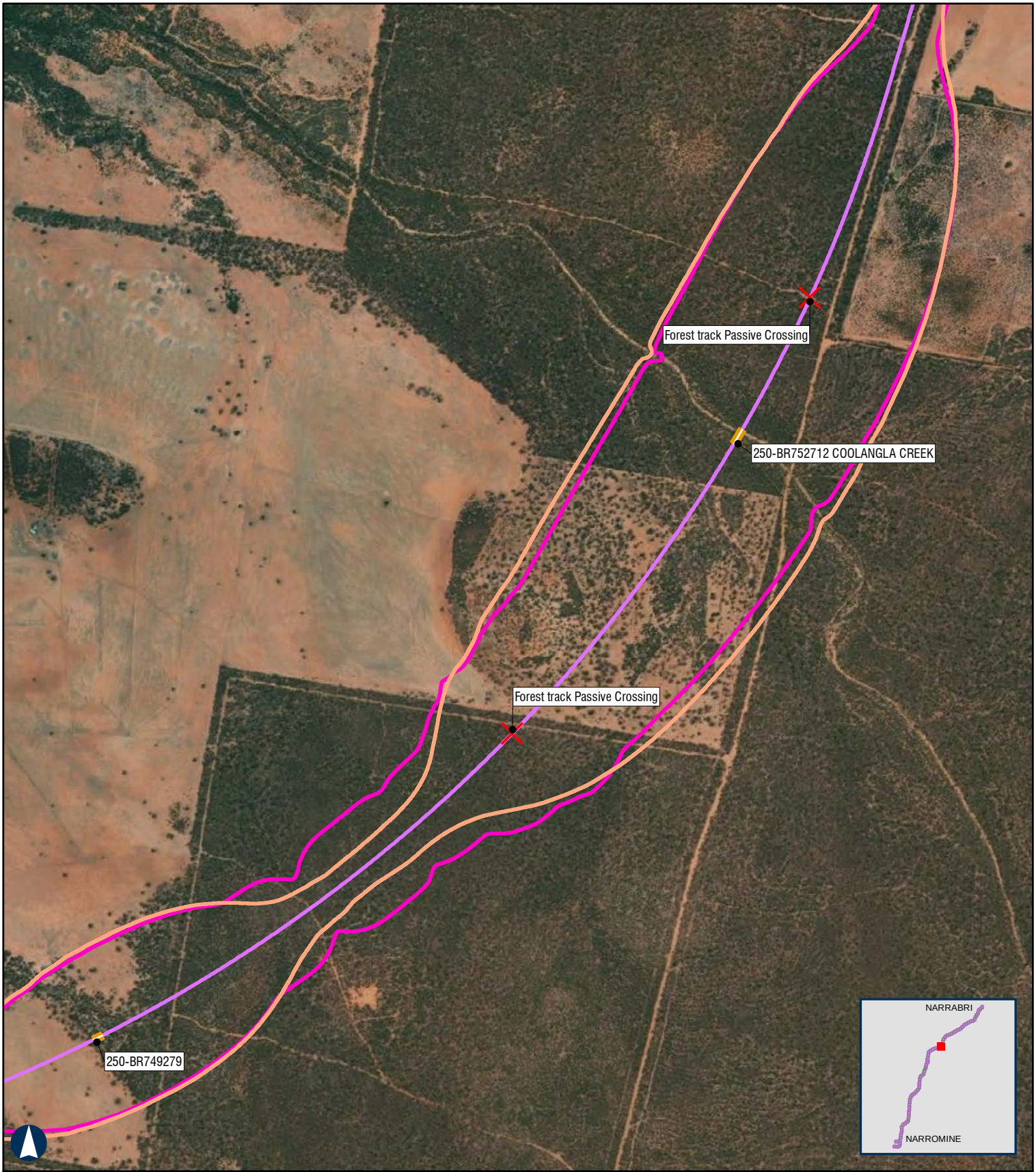
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 124 of 148

500 m

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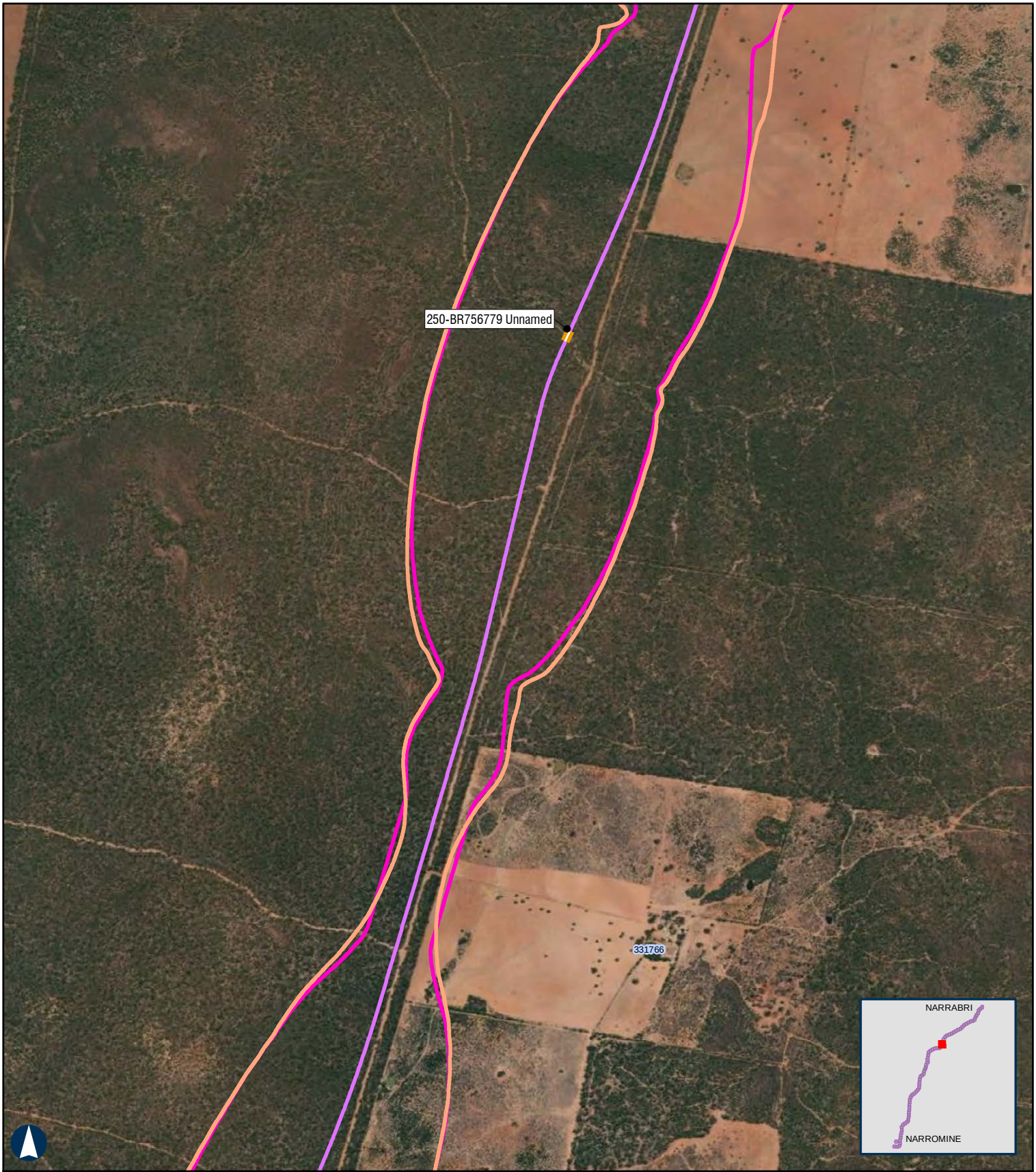
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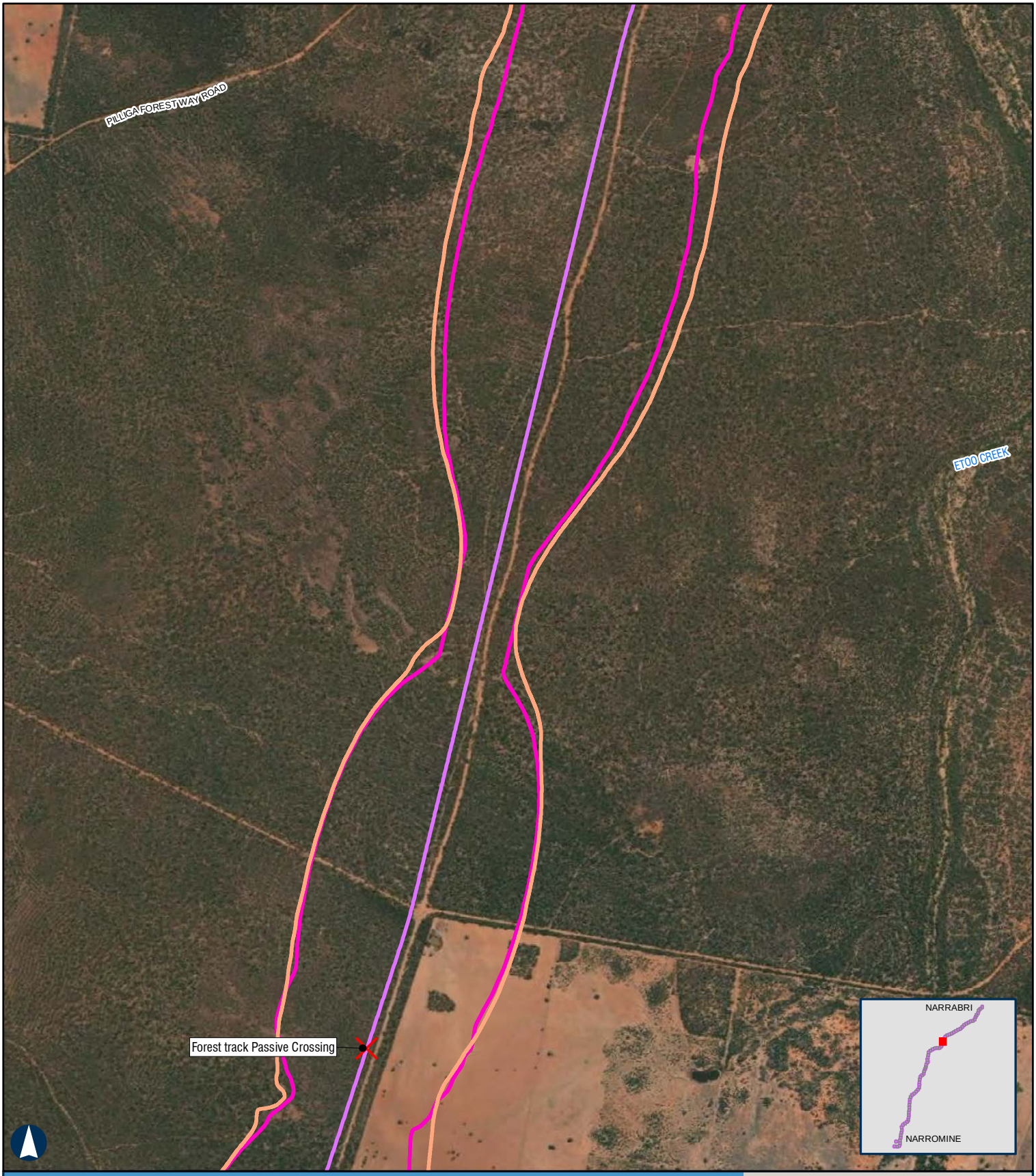
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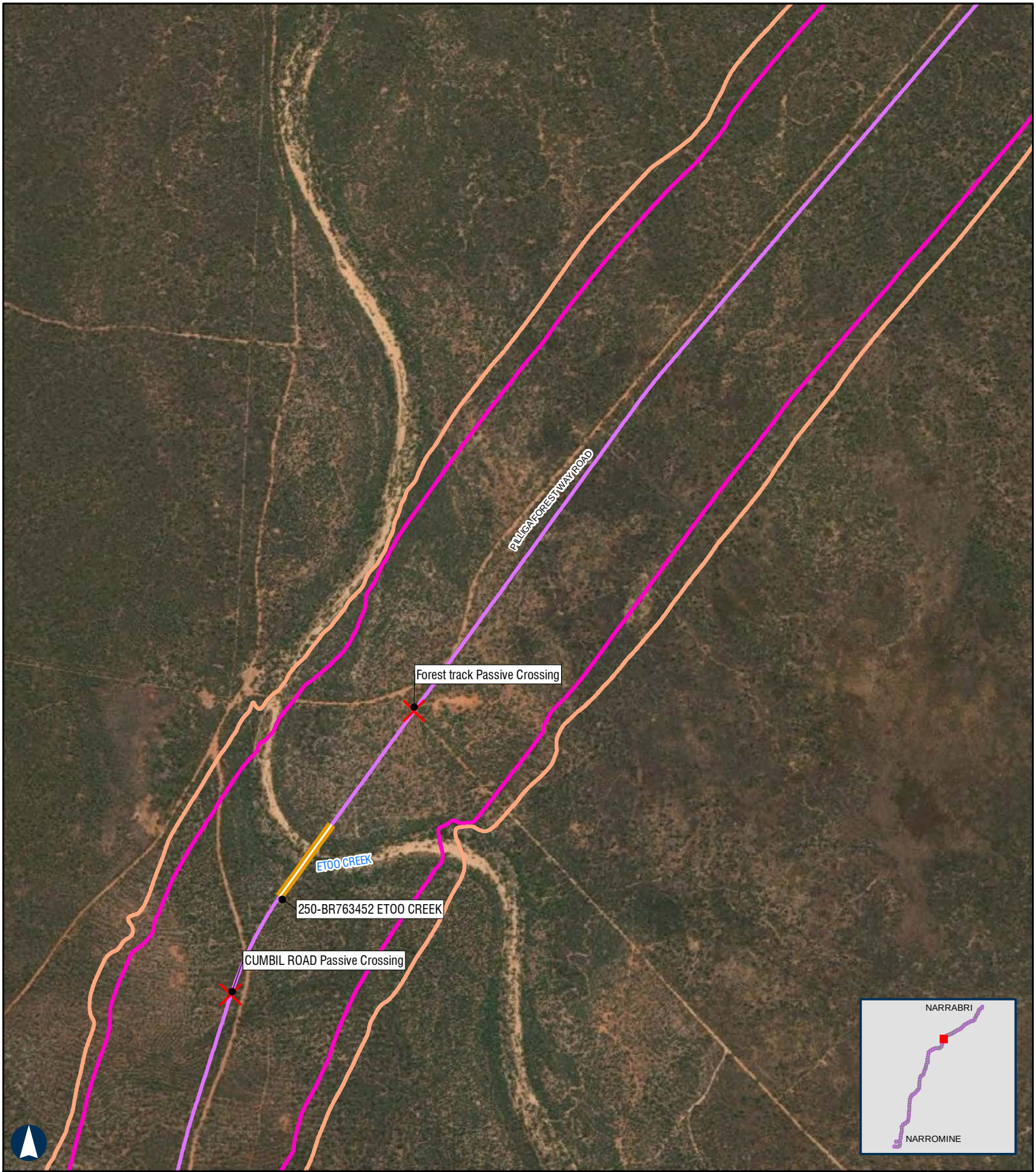
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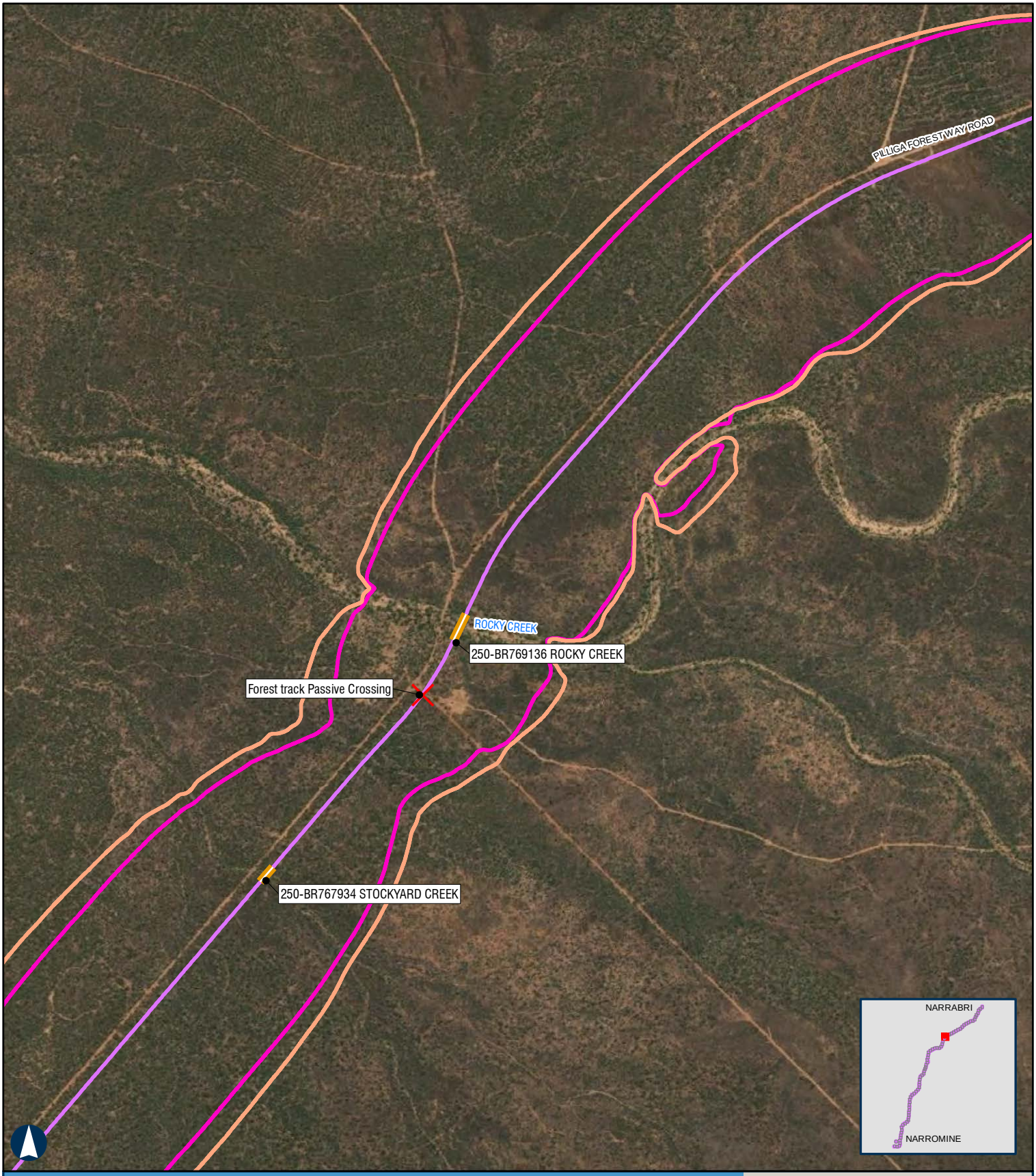
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Year 2026 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

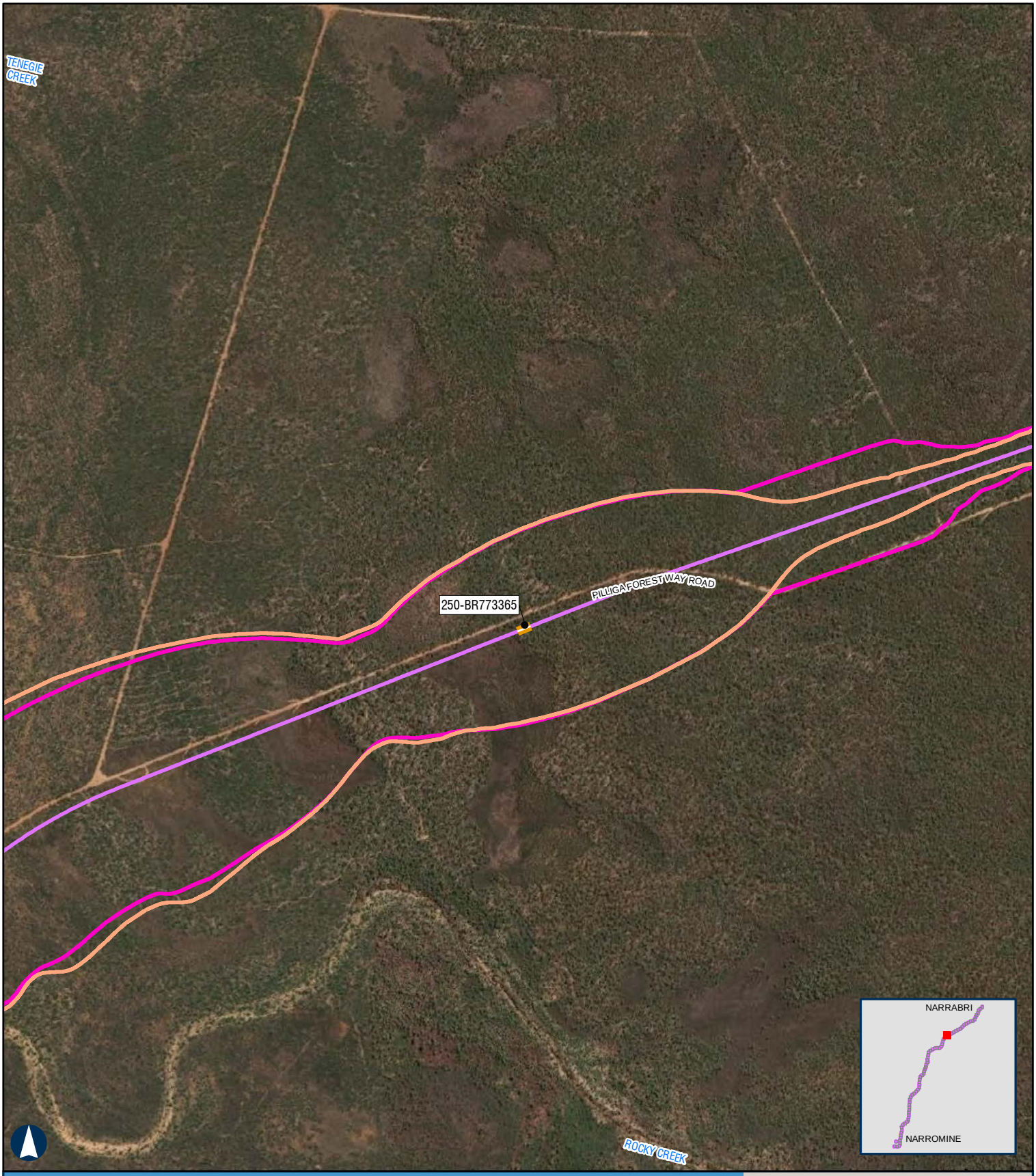
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 129 of 148

500 m

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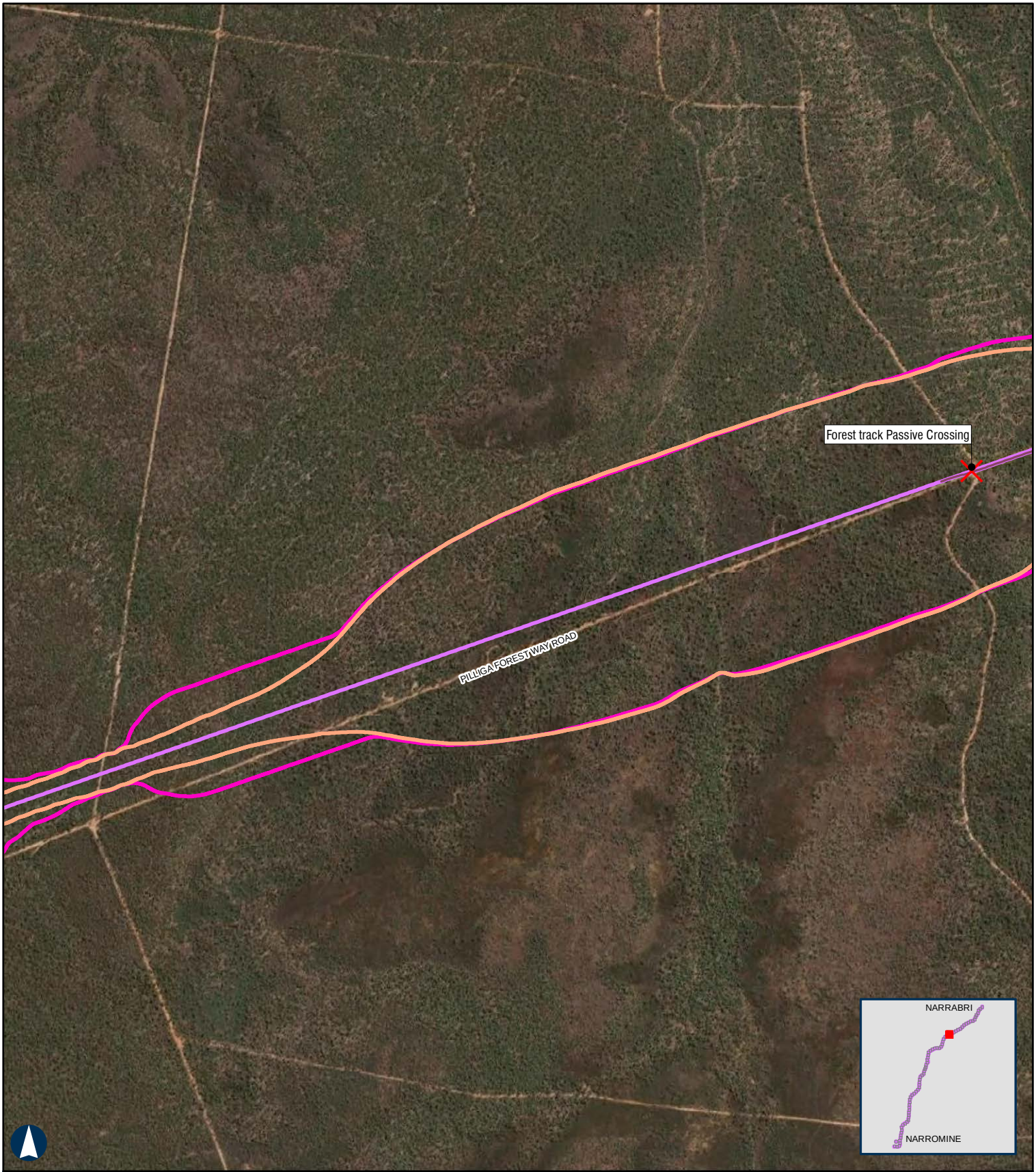
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 130 of 148

500 m

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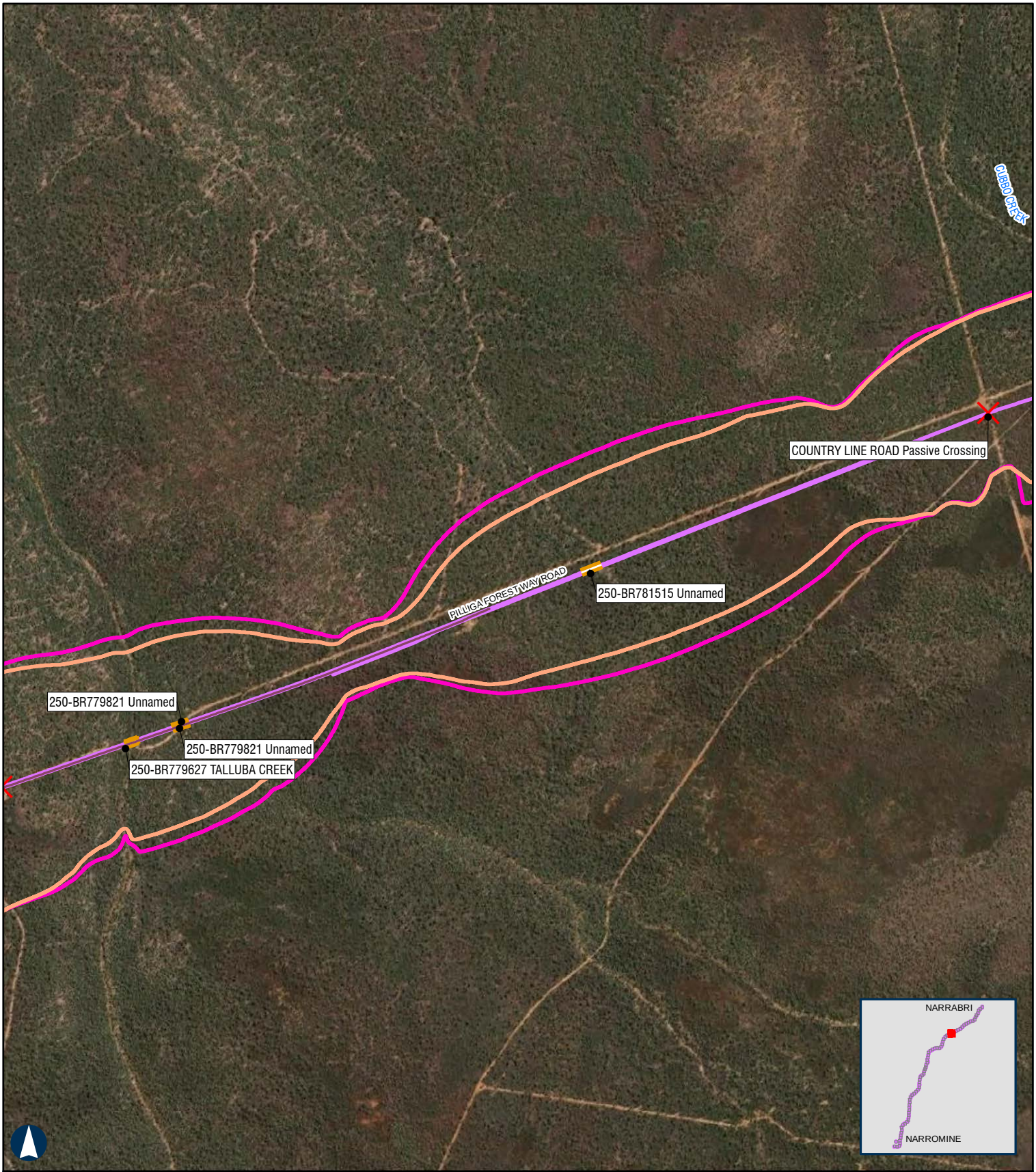
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 131 of 148

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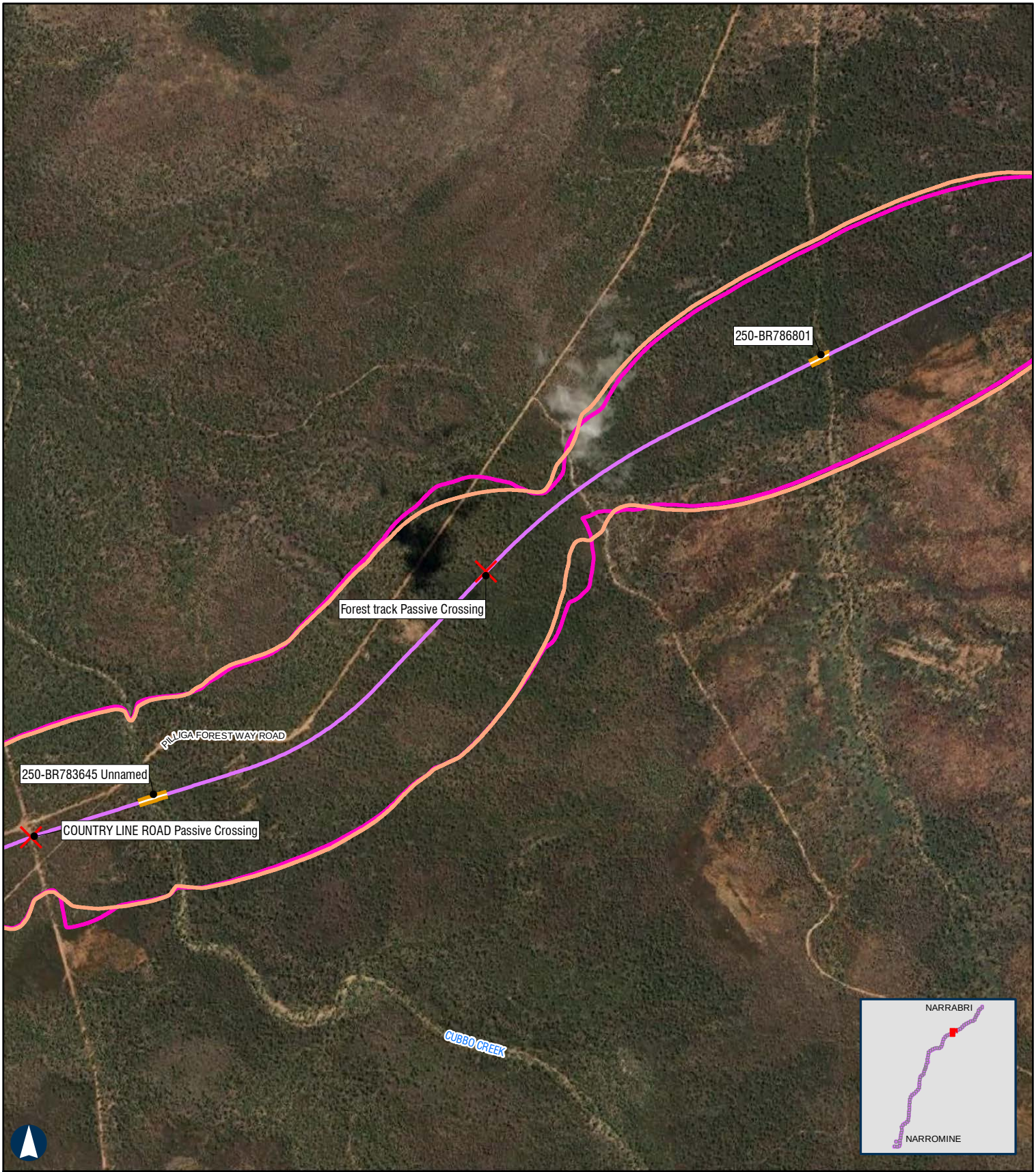
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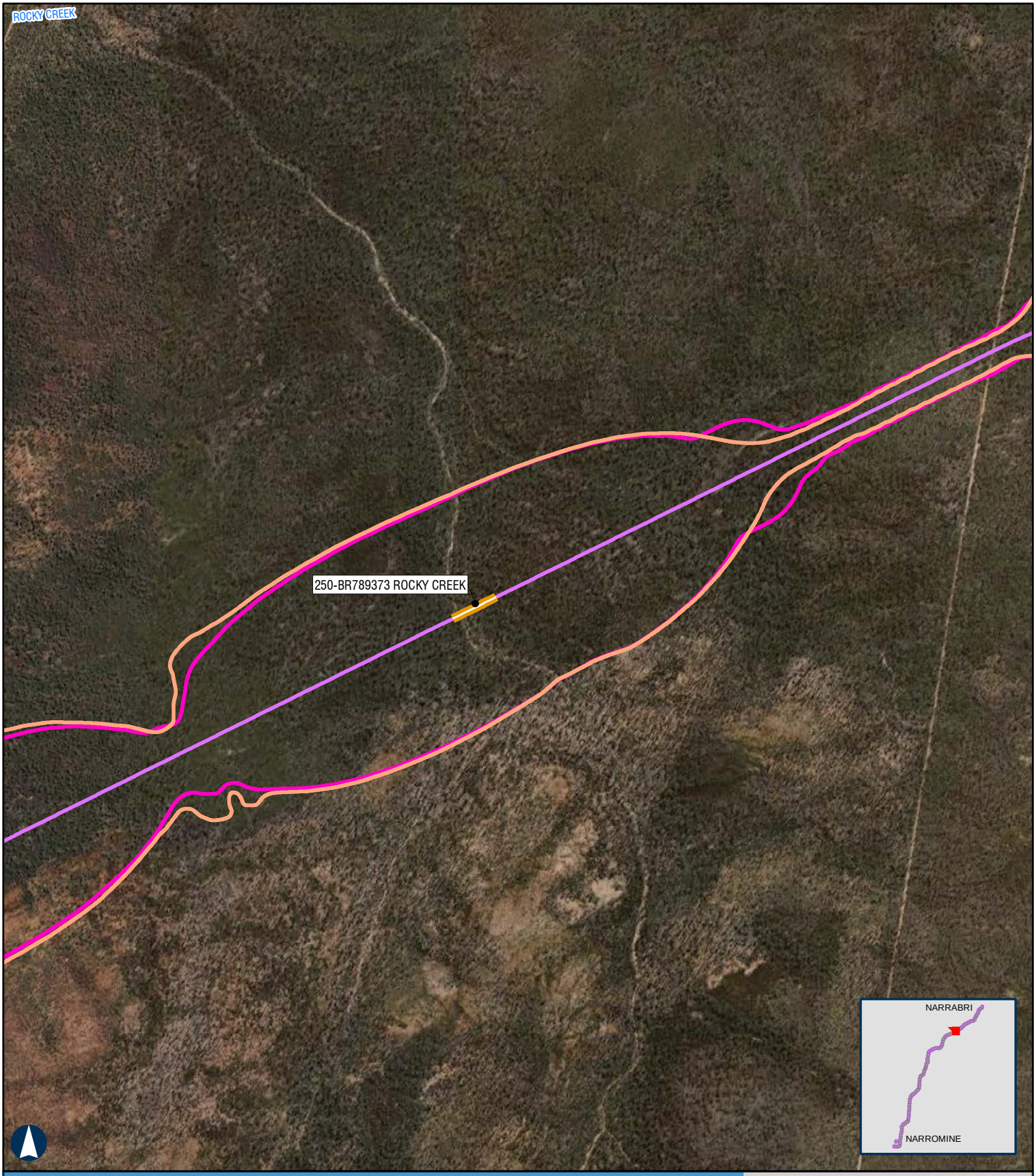
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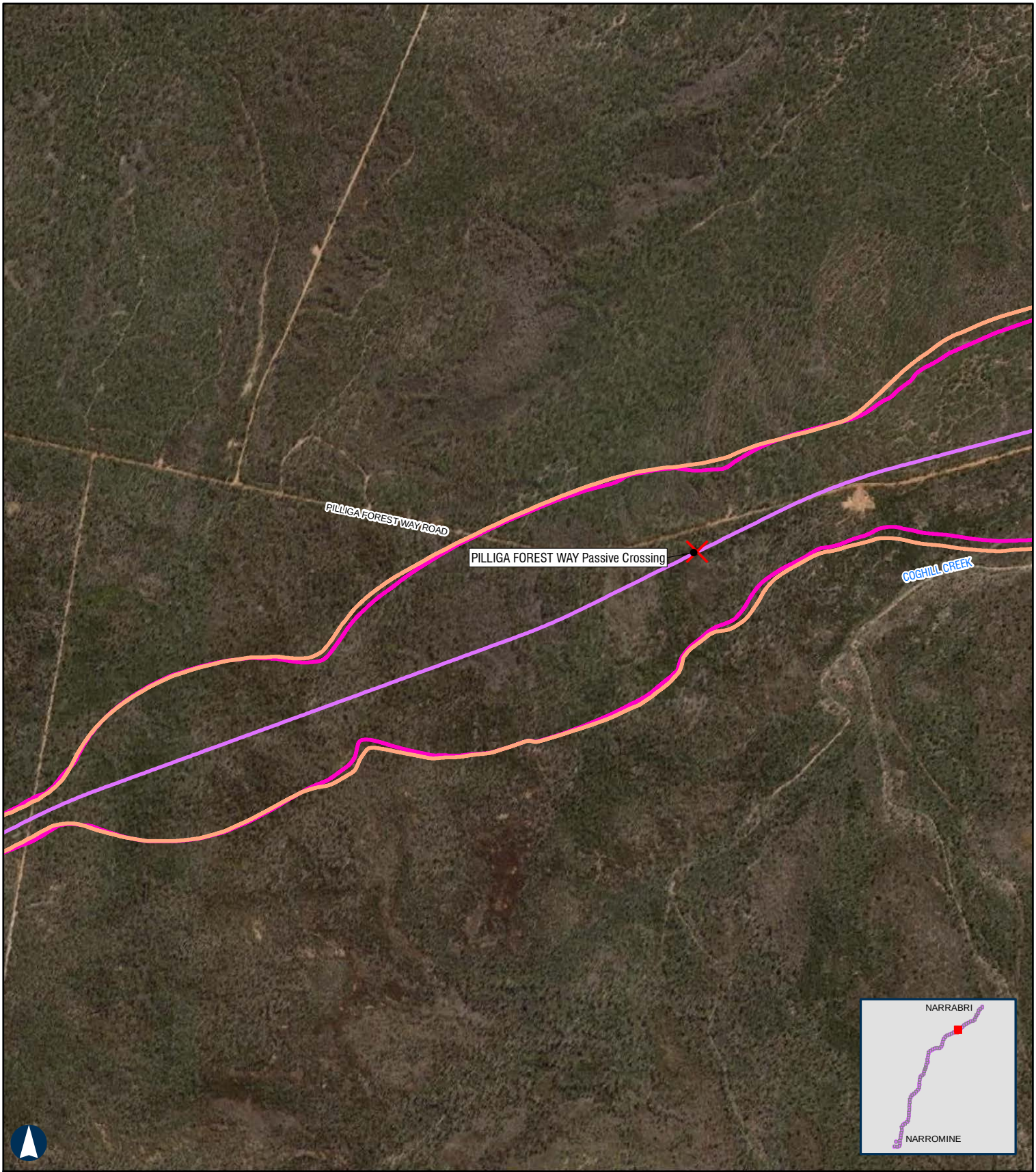
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 134 of 148

500 m

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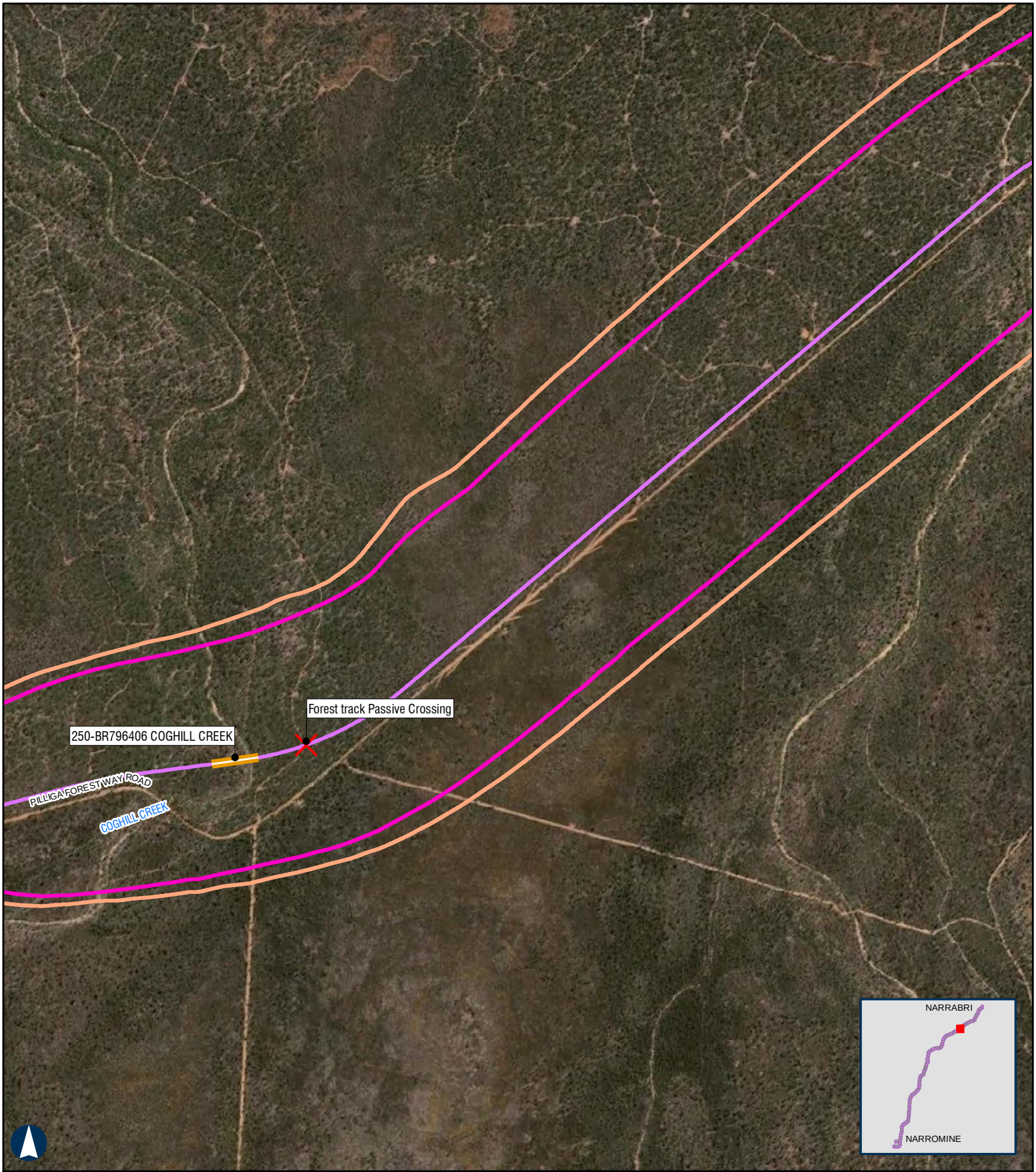
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 135 of 148

500 m

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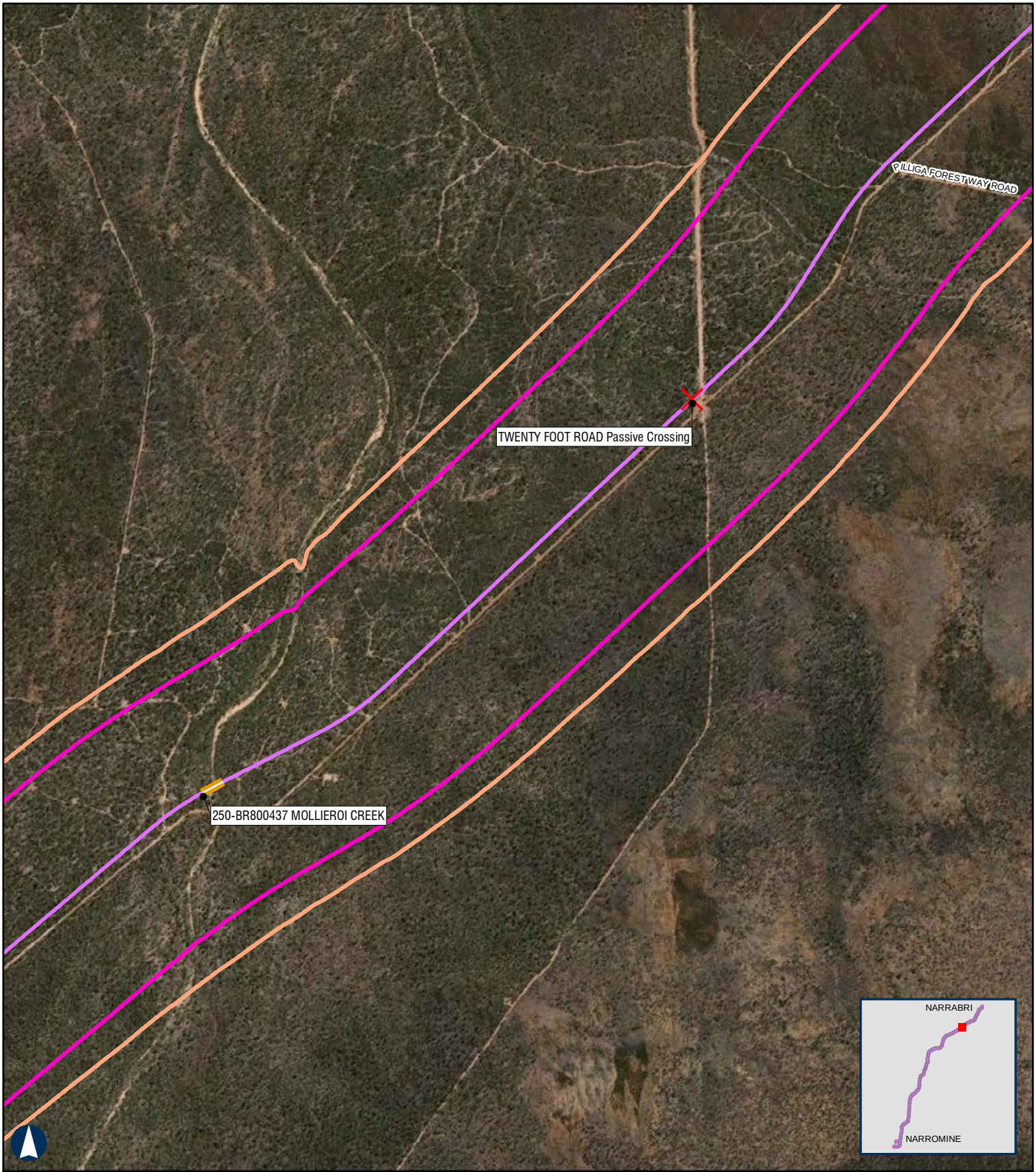
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 136 of 148

500 m

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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 137 of 148

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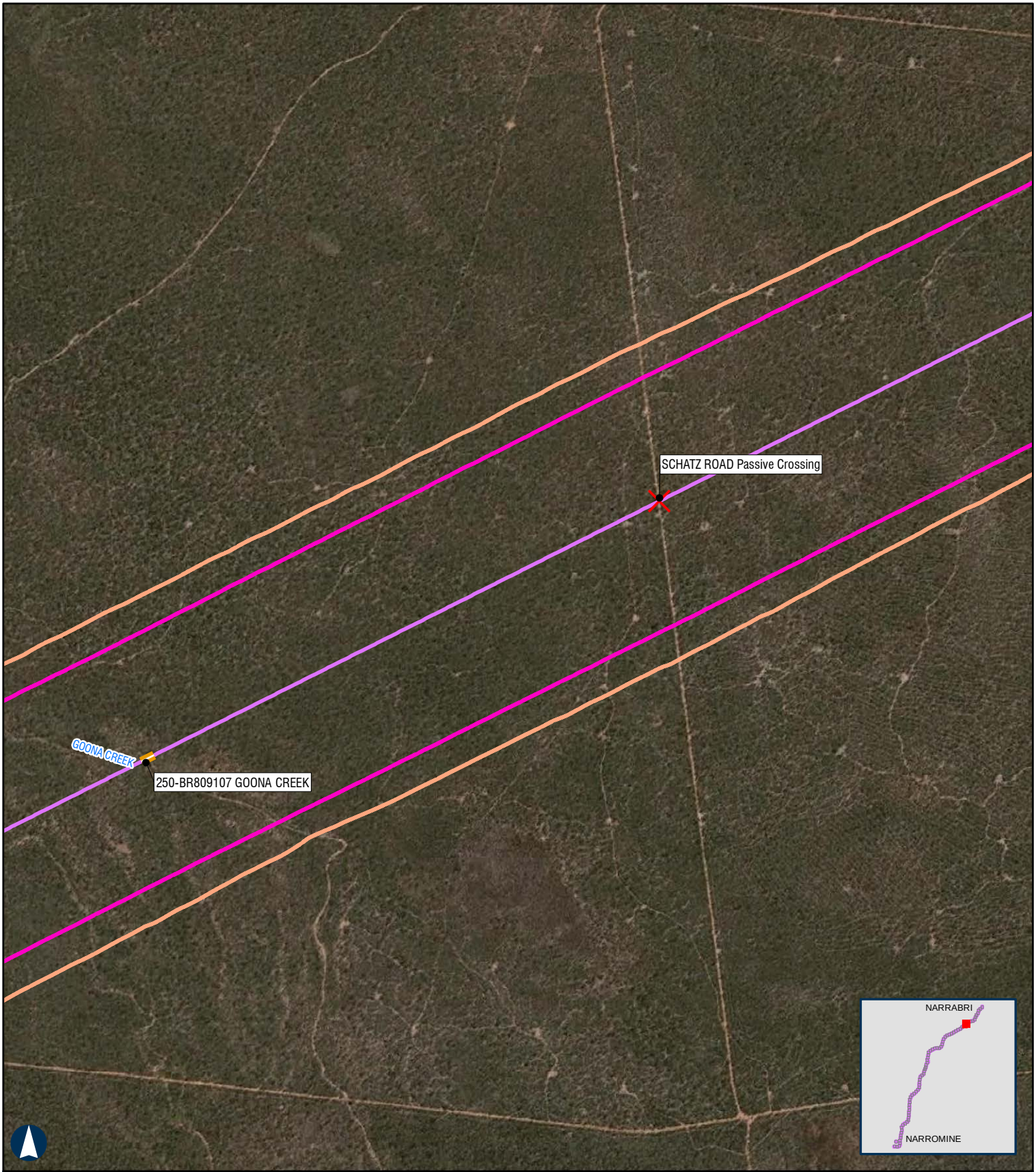
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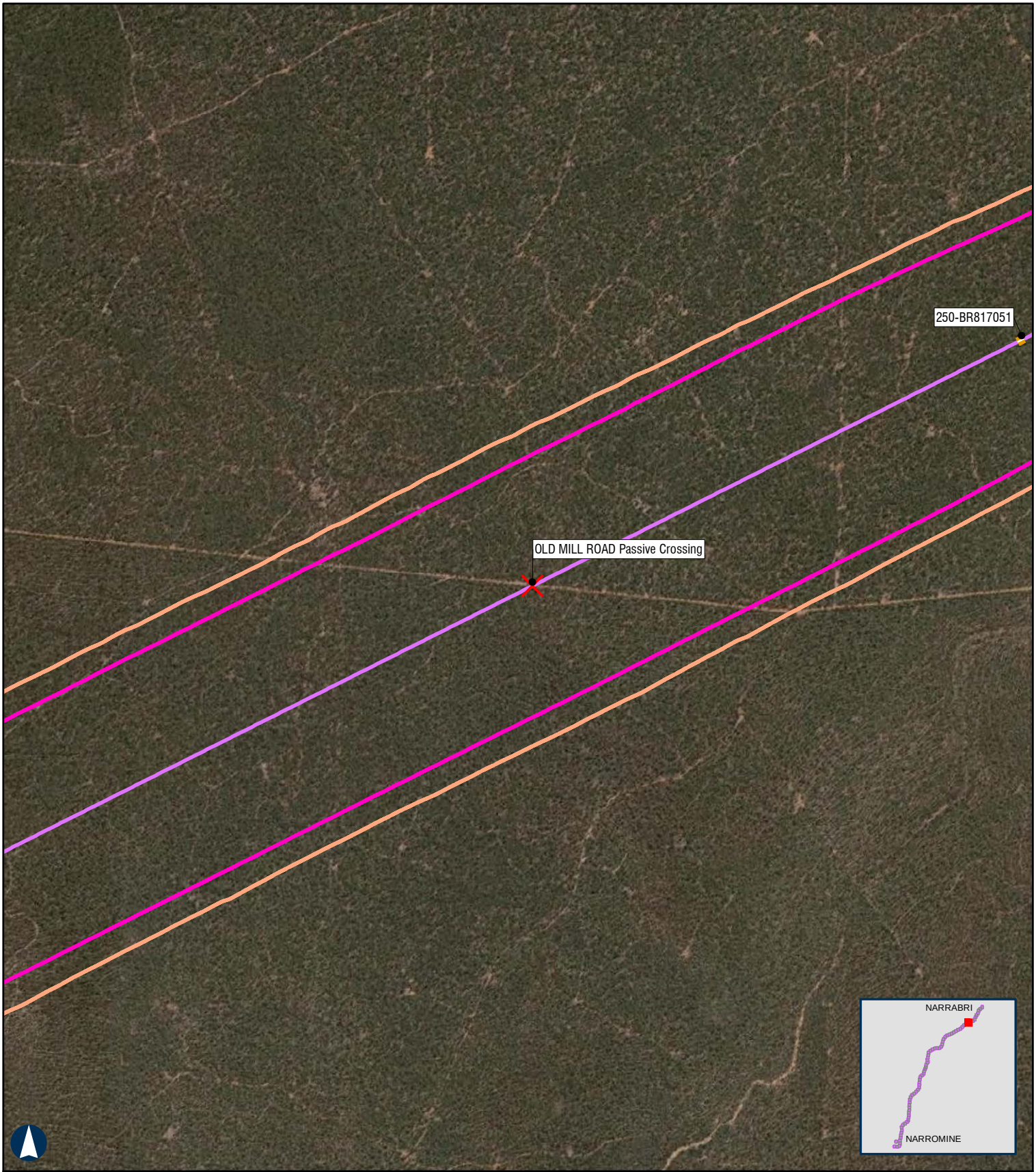
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Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 139 of 148

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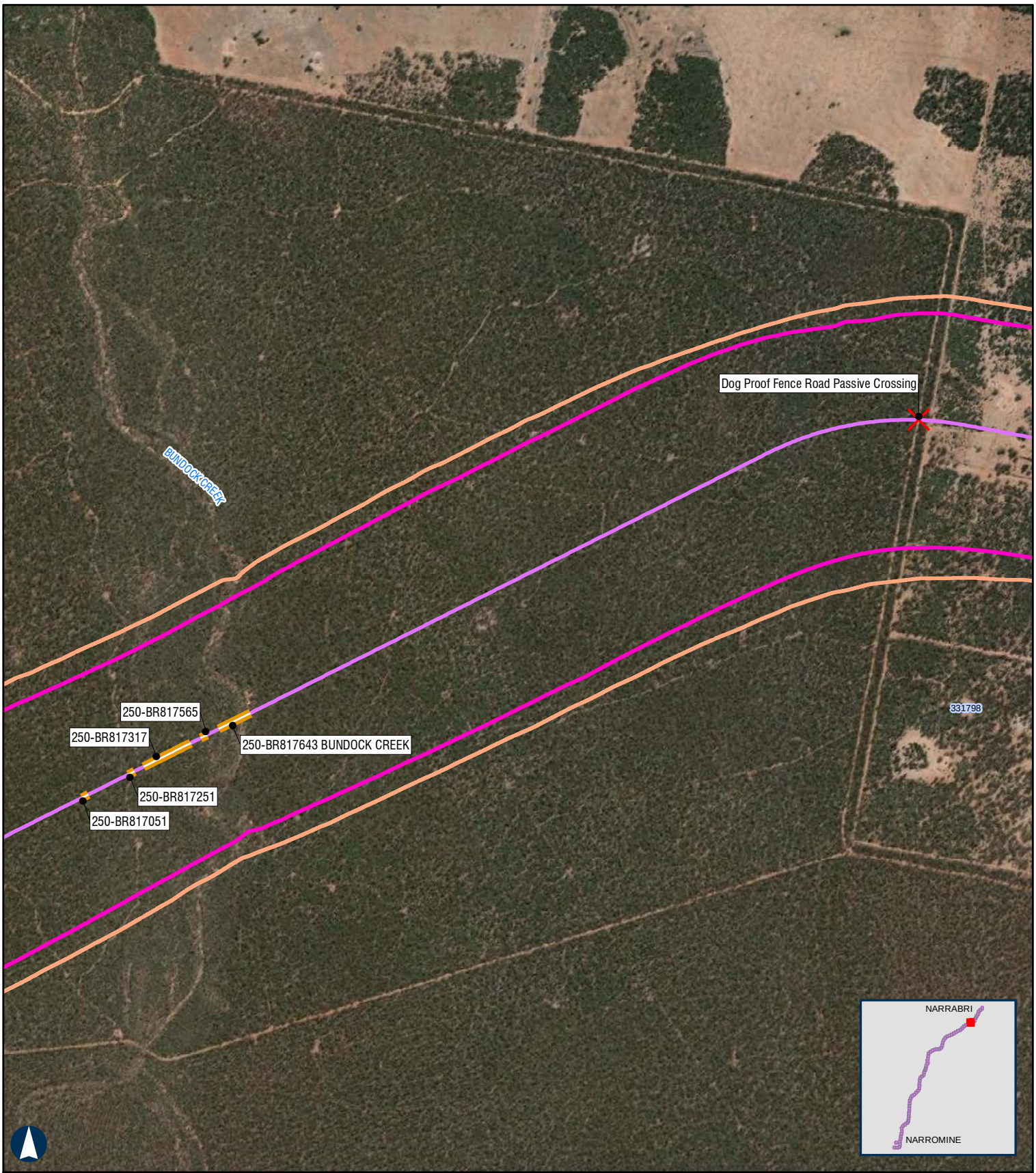
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APPENDIX D - Map 140 of 148

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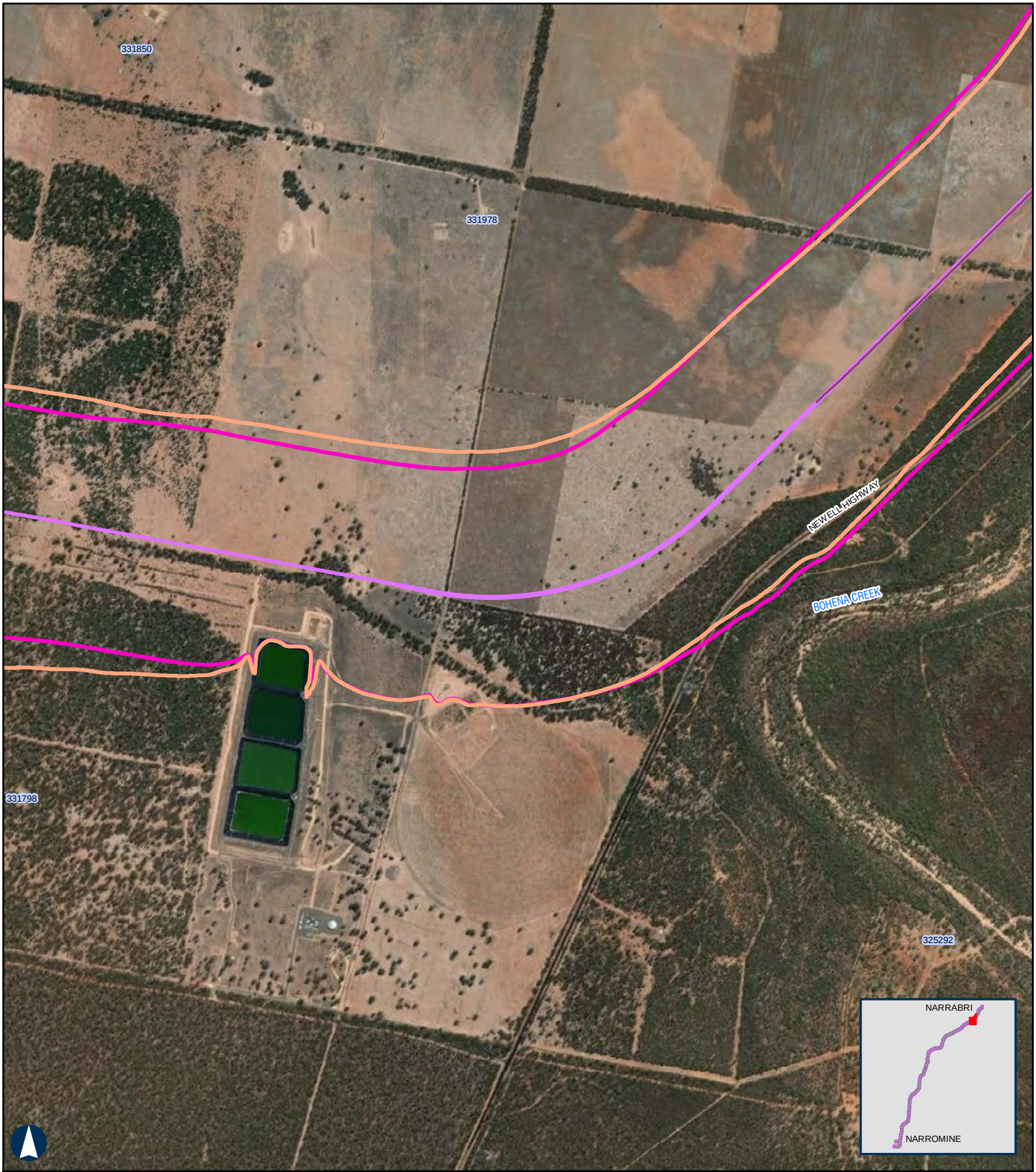
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Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

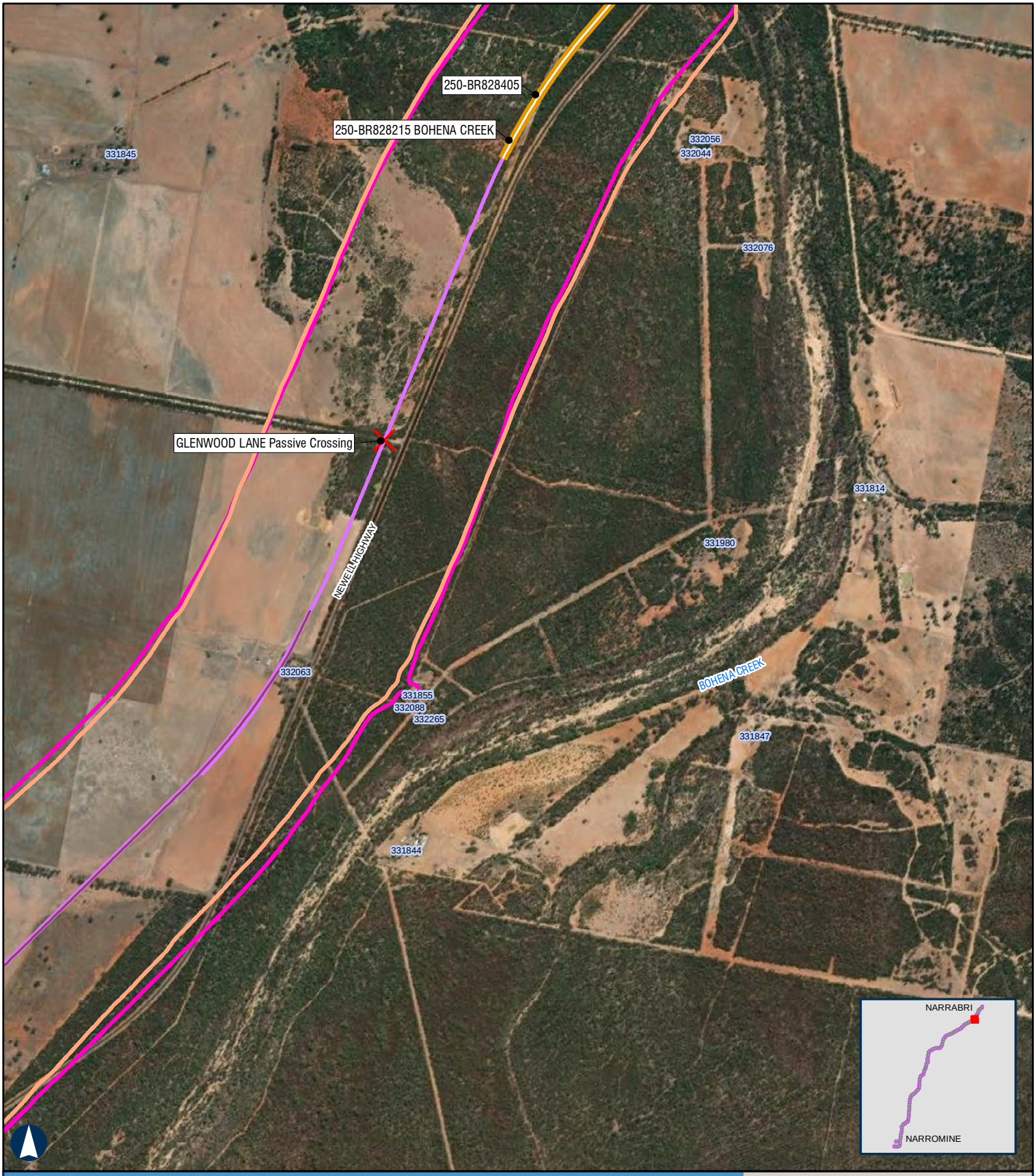
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 142 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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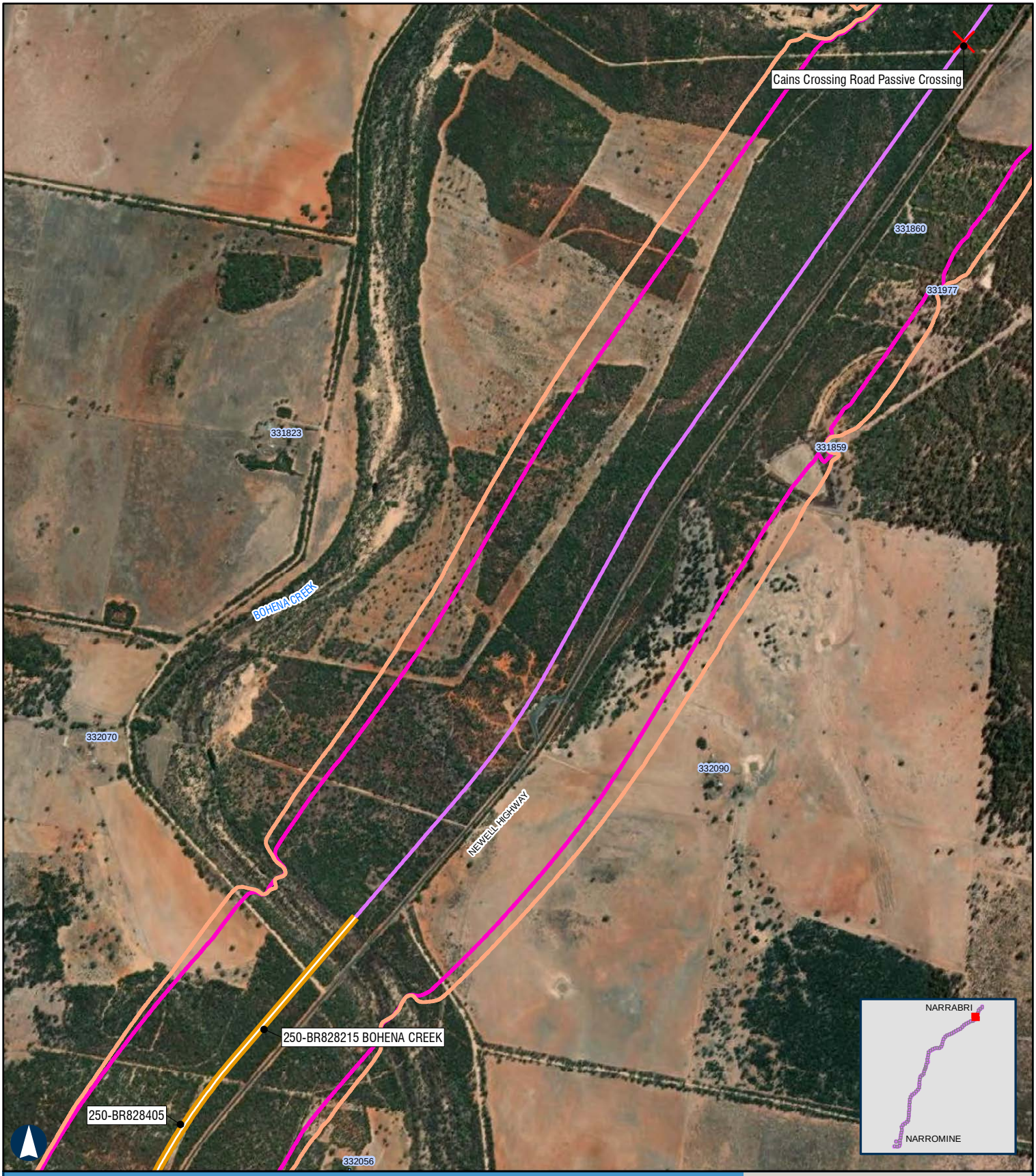
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 143 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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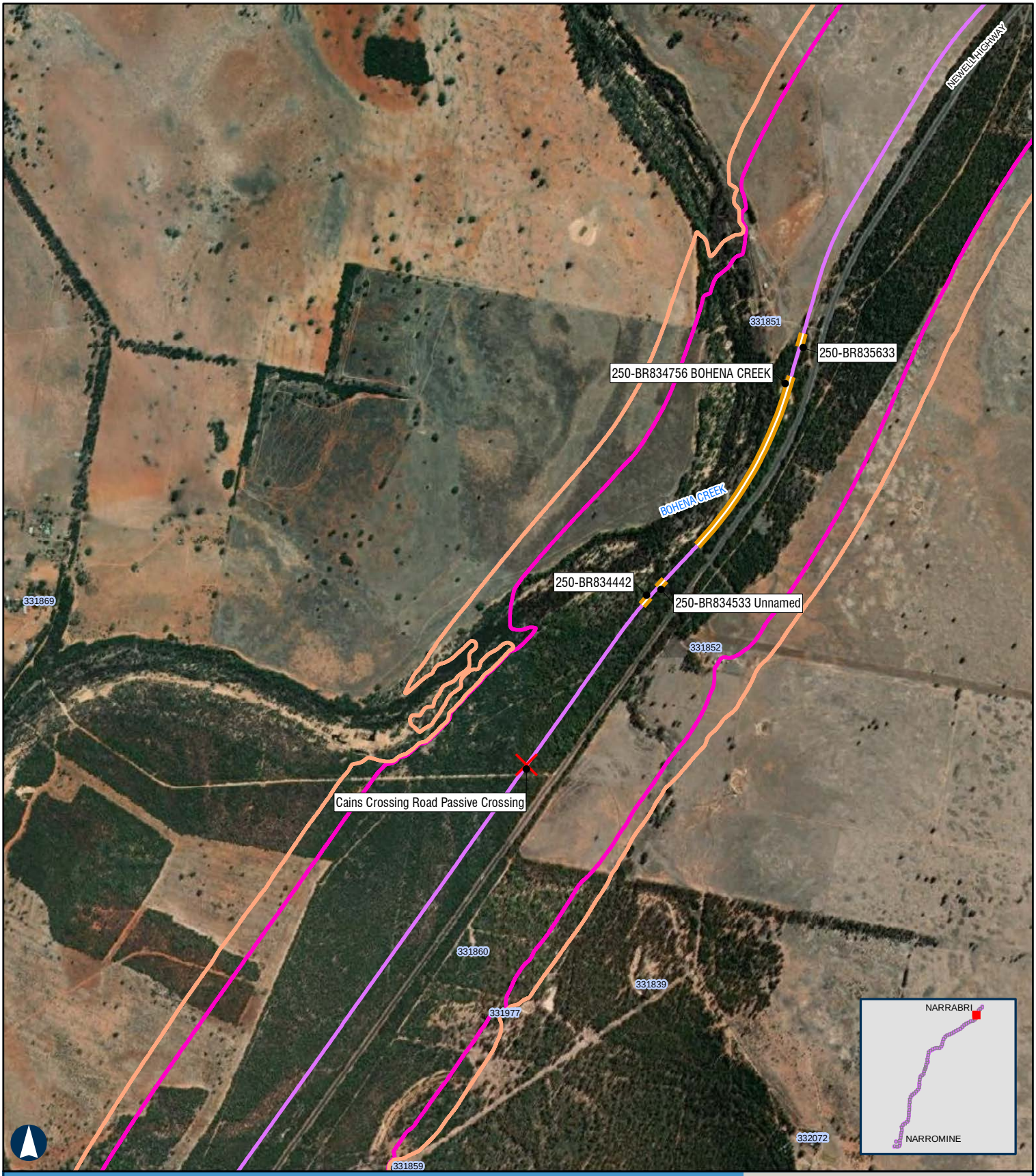
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 144 of 148

500 m

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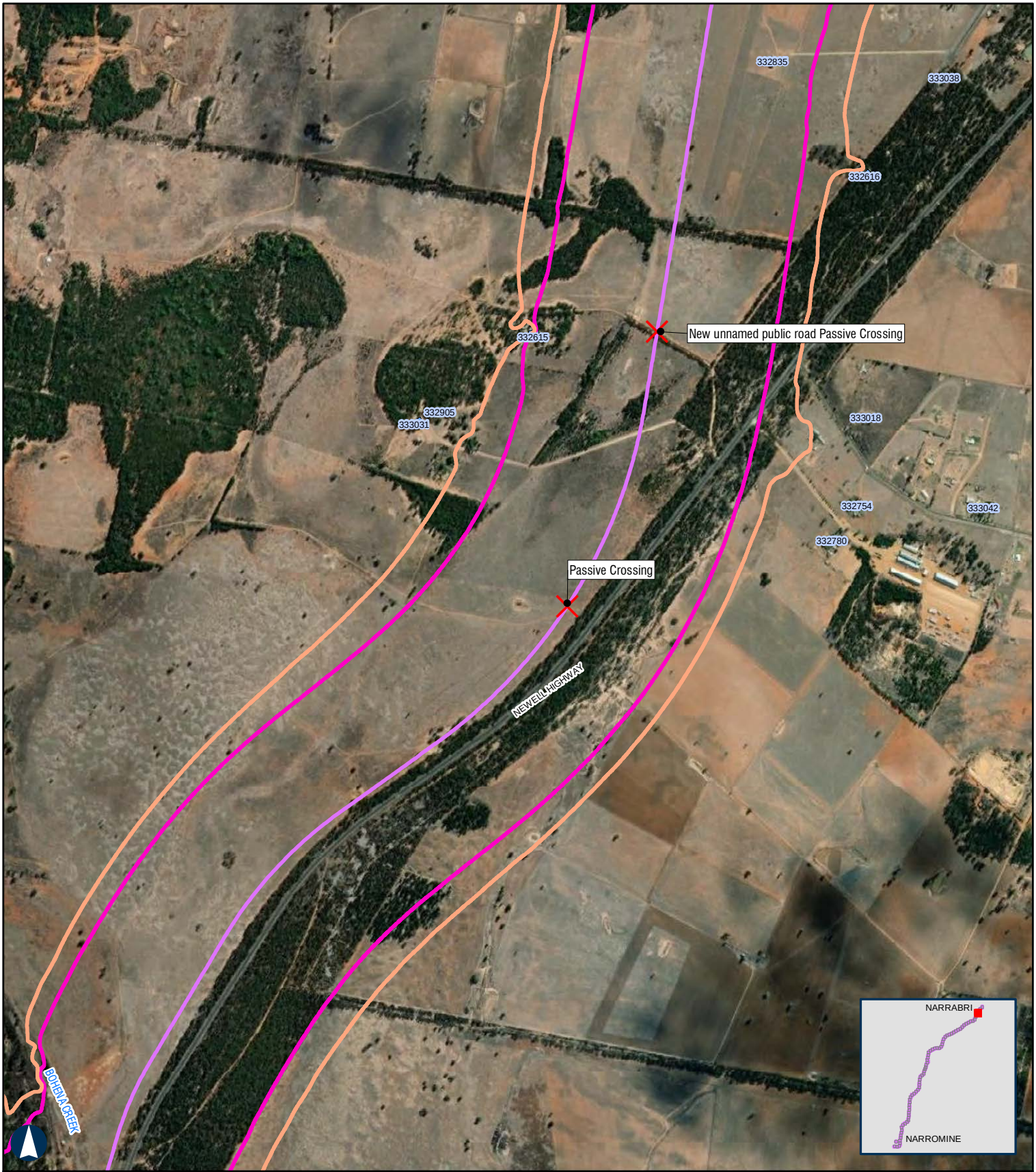
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 145 of 148

500 m

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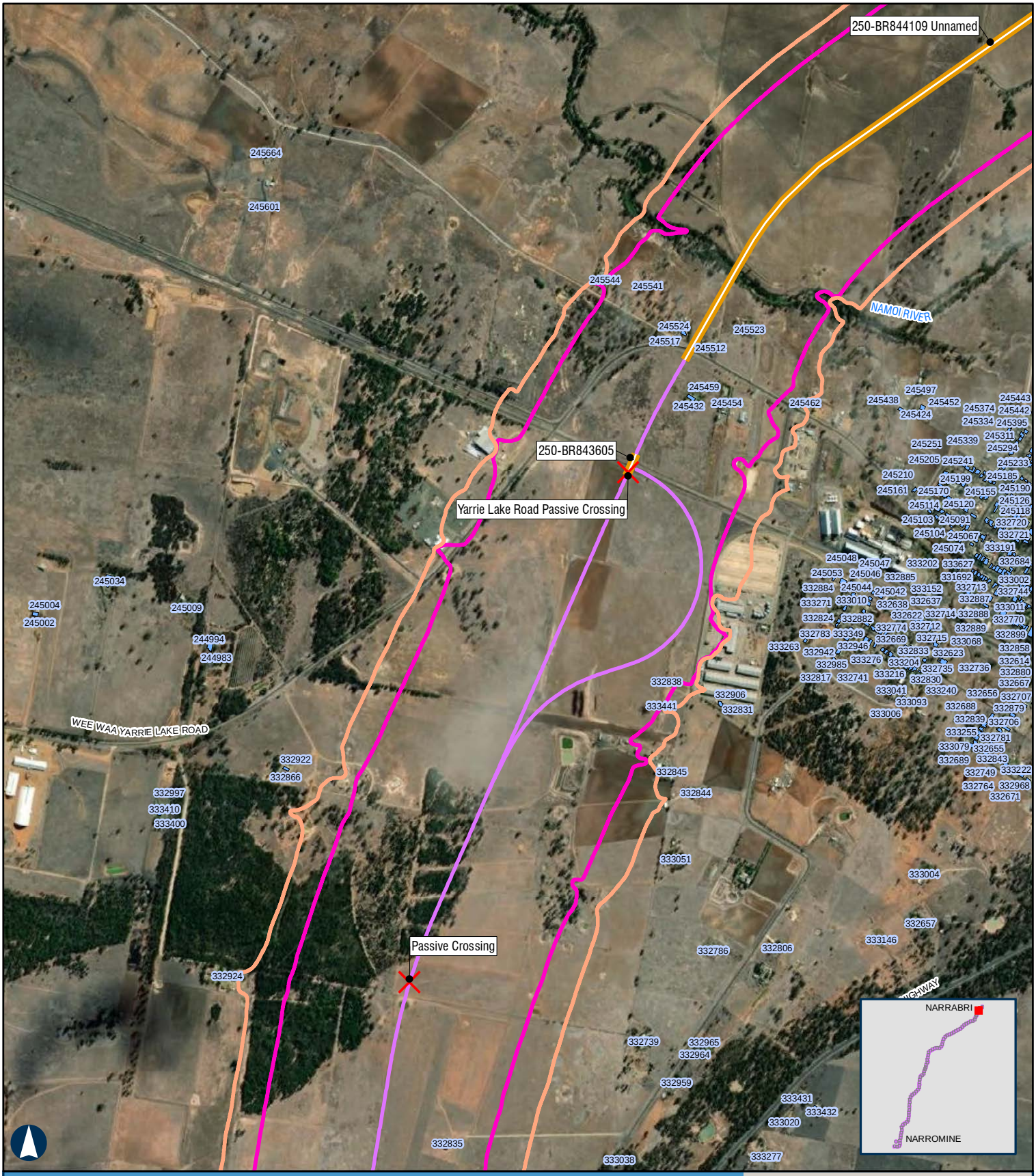
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 146 of 148

500 m

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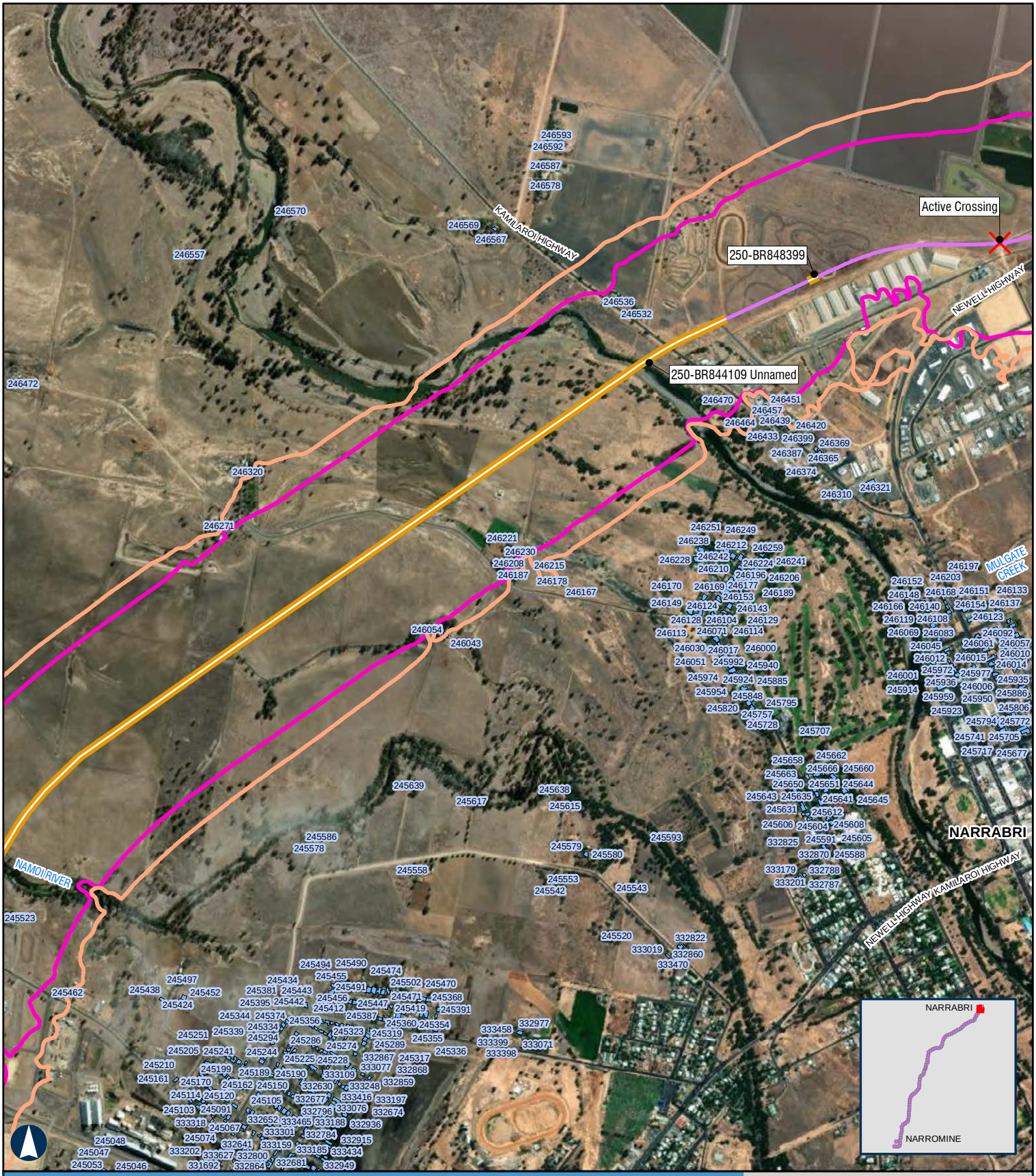
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NARROMINE TO NARRABRI Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 147 of 148

500 m

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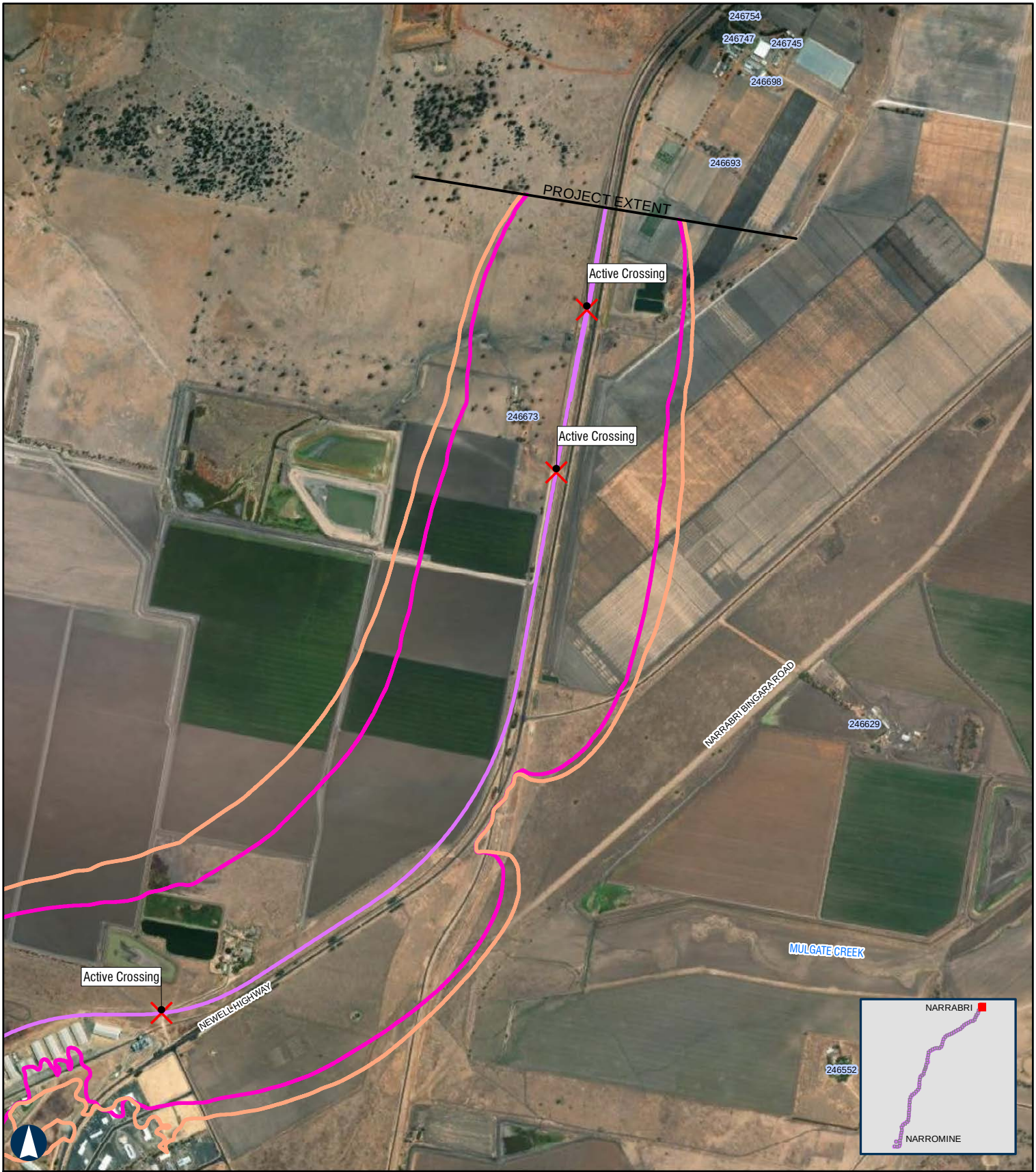
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NARROMINE TO NARRABRI

Year 2026 Night-time Rail Noise Levels

APPENDIX D - Map 148 of 148

500 m

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TECHNICAL REPORT

09

Updated noise and vibration assessment—operational rail

Appendix E Predicted airborne railway noise levels—Year 2040 design year

NARROMINE TO NARRABRI PROJECT



The predicted railway noise levels for the future railway operations in year 2040 are detailed in the following table and noise contour maps.

The predicted noise levels are provided for the identified sensitive receivers within the 2 km study area. This includes all sensitive receivers where the predicted noise levels triggered an investigation of noise mitigation.

Following the tabulated results are the predicted noise contour maps for the daytime and night-time railway operations at the proposal design year 2040. The noise contours have been presented as the daytime and night-time assessment criteria adopted from the RING. All noise contours are predicted at 2.4 m above the residual ground level.

The noise contours are calculated from the interpolation of thousands of calculation points and provide an overview of the railway noise levels to assist the interpretation of the assessment and its outcomes. The tabulated noise levels at the individual sensitive receivers should be referenced when assessing railway noise levels against the criteria.

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
239732	60	55	80	48	53	74
239733	60	55	80	49	54	76
239740	60	55	80	51	55	78
239748	60	55	80	48	53	76
239751	60	55	80	48	52	76
239764	60	55	80	46	51	73
239768	60	55	80	43	48	72
239781	60	55	80	39	43	67
243368	60	55	80	45	49	73
243378	60	55	80	50	54	78
243390	60	55	80	46	51	75
243394	60	55	80	42	46	69
243428	60	55	80	49	54	77
243429	60	55	80	51	55	79
243438	60	55	80	48	53	75
243471	60	55	80	56	**60**	**85**
243473	60	55	80	54	**58**	**82**
243487	60	55	80	47	51	74
243504	60	55	80	44	49	73
243563	60	55	80	33	37	60
243585	60	55	80	40	45	68
243591	60	55	80	43	47	71
243609	60	55	80	42	47	71
243664	60	55	80	43	48	70
243690	60	55	80	48	53	76
243754	60	55	80	46	50	73
243758	60	55	80	48	52	74
243772	60	55	80	51	**56**	78
243783	60	55	80	45	50	73
243791	60	55	80	53	**58**	**81**
243829	60	55	80	51	55	**81**
243840	60	55	80	42	46	69
243844	60	55	80	46	50	73
243849	60	55	80	47	51	73
243853	60	55	80	48	52	74
243859	60	55	80	45	49	71
243862	60	55	80	48	52	75
243864	60	55	80	48	52	75
243867	60	55	80	49	54	76
243868	60	55	80	53	**57**	**81**
243882	60	55	80	49	53	77
243884	60	55	80	49	54	77
243895	60	55	80	46	50	73
243898	60	55	80	45	49	72
243902	60	55	80	44	48	70
243906	60	55	80	52	**57**	80
243927	60	55	80	53	**57**	**81**
243931	60	55	80	53	**58**	**82**
243937	60	55	80	45	50	73
243951	60	55	80	47	51	73
243961	60	55	80	49	53	76
243977	60	55	80	51	55	79
243983	60	55	80	44	49	72
243987	60	55	80	46	50	72
243996	60	55	80	52	**56**	80
244012	60	55	80	44	49	72
244013	60	55	80	45	49	72
244014	60	55	80	46	50	73
244038	60	55	80	44	49	71
244053	60	55	80	52	**57**	80
244057	60	55	80	52	**56**	80
244075	60	55	80	48	52	74
244093	60	55	80	47	51	75

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
244102	60	55	80	47	51	73
244118	60	55	80	48	52	75
244124	60	55	80	44	48	70
244131	60	55	80	46	50	73
244137	60	55	80	47	51	74
244173	60	55	80	50	55	78
244201	60	55	80	49	53	76
244211	60	55	80	48	52	75
244214	60	55	80	47	51	73
244225	60	55	80	46	50	74
244234	60	55	80	41	45	69
244255	60	55	80	38	42	66
244284	60	55	80	43	48	71
244309	60	55	80	53	**57**	**81**
244329	60	55	80	43	48	70
244376	60	55	80	46	50	72
244394	60	55	80	42	46	70
244401	60	55	80	43	47	71
244419	60	55	80	48	53	75
244422	60	55	80	43	48	70
244437	60	55	80	42	47	70
244449	60	55	80	39	43	67
244465	60	55	80	49	54	76
244483	60	55	80	48	52	75
244492	60	55	80	44	48	70
244498	60	55	80	48	52	75
244510	60	55	80	47	51	74
244531	60	55	80	48	53	75
244536	60	55	80	44	48	72
244547	60	55	80	50	54	78
244554	60	55	80	47	51	75
244568	60	55	80	45	49	72
244983	60	55	80	48	52	76
244994	60	55	80	47	51	75
245002	60	55	80	43	48	70
245004	60	55	80	43	48	70
245009	60	55	80	49	53	75
245034	60	55	80	45	49	73
245042	60	55	80	46	50	73
245044	60	55	80	47	51	75
245046	60	55	80	46	50	74
245047	60	55	80	46	50	74
245048	60	55	80	47	51	75
245053	60	55	80	48	53	76
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245074	60	55	80	42	46	68
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245078	60	55	80	44	48	72
245081	60	55	80	44	48	71
245083	60	55	80	43	48	70
245084	60	55	80	44	48	71
245088	60	55	80	45	49	72
245090	60	55	80	43	47	70
245091	60	55	80	44	48	70
245093	60	55	80	45	49	72
245096	60	55	80	43	48	70
245097	60	55	80	44	49	71
245103	60	55	80	44	48	71
245104	60	55	80	46	50	73
245105	60	55	80	43	47	70
245106	60	55	80	43	48	70

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245107	60	55	80	45	49	72
245113	60	55	80	43	47	70
245114	60	55	80	47	51	74
245115	60	55	80	44	48	70
245118	60	55	80	44	48	70
245120	60	55	80	43	47	70
245126	60	55	80	43	47	70
245128	60	55	80	43	47	70
245132	60	55	80	43	48	70
245135	60	55	80	43	48	70
245138	60	55	80	44	48	71
245139	60	55	80	44	48	71
245142	60	55	80	43	47	69
245144	60	55	80	43	48	71
245146	60	55	80	45	49	71
245150	60	55	80	43	48	70
245155	60	55	80	44	49	71
245156	60	55	80	44	48	72
245159	60	55	80	42	46	67
245161	60	55	80	47	51	74
245162	60	55	80	45	49	72
245164	60	55	80	46	50	72
245170	60	55	80	46	50	73
245171	60	55	80	43	48	70
245172	60	55	80	45	50	72
245175	60	55	80	44	48	70
245181	60	55	80	44	49	71
245182	60	55	80	46	51	73
245184	60	55	80	45	49	71
245185	60	55	80	44	48	70
245186	60	55	80	44	49	71
245188	60	55	80	44	48	70
245189	60	55	80	45	49	71
245190	60	55	80	43	47	69
245191	60	55	80	44	49	72
245194	60	55	80	44	48	70
245197	60	55	80	45	49	71
245198	60	55	80	43	48	69
245199	60	55	80	45	49	72
245200	60	55	80	41	45	67
245201	60	55	80	45	49	72
245203	60	55	80	44	48	70
245204	60	55	80	45	49	71
245205	60	55	80	45	49	72
245206	60	55	80	41	45	68
245208	60	55	80	45	49	72
245209	60	55	80	46	51	74
245210	60	55	80	48	52	76
245211	60	55	80	45	49	70
245212	60	55	80	43	47	69
245213	60	55	80	44	48	70
245214	60	55	80	45	49	72
245215	60	55	80	40	45	67
245216	60	55	80	43	48	70
245218	60	55	80	45	49	71
245219	60	55	80	44	48	70
245224	60	55	80	45	49	71
245225	60	55	80	44	48	69
245228	60	55	80	40	45	66
245232	60	55	80	43	48	70
245233	60	55	80	43	47	69
245234	60	55	80	46	50	73
245235	60	55	80	42	46	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245237	60	55	80	44	48	70
245240	60	55	80	43	48	70
245241	60	55	80	46	50	73
245244	60	55	80	46	50	72
245246	60	55	80	46	50	73
245248	60	55	80	43	47	68
245251	60	55	80	46	51	74
245252	60	55	80	44	48	70
245255	60	55	80	41	45	67
245258	60	55	80	44	48	71
245259	60	55	80	46	50	71
245262	60	55	80	44	48	70
245265	60	55	80	42	47	70
245268	60	55	80	45	49	71
245269	60	55	80	38	42	64
245274	60	55	80	43	47	69
245275	60	55	80	40	44	66
245276	60	55	80	46	50	72
245279	60	55	80	44	48	71
245280	60	55	80	42	46	68
245283	60	55	80	45	49	70
245285	60	55	80	41	46	67
245286	60	55	80	43	47	70
245289	60	55	80	39	43	64
245290	60	55	80	45	50	72
245294	60	55	80	46	50	72
245295	60	55	80	44	48	71
245296	60	55	80	43	48	70
245298	60	55	80	42	46	68
245299	60	55	80	43	47	70
245300	60	55	80	42	46	67
245309	60	55	80	44	48	70
245311	60	55	80	44	49	70
245312	60	55	80	42	47	68
245313	60	55	80	44	48	70
245314	60	55	80	43	47	70
245316	60	55	80	41	45	68
245317	60	55	80	40	44	65
245319	60	55	80	39	44	65
245321	60	55	80	43	48	70
245323	60	55	80	41	45	67
245324	60	55	80	43	47	70
245325	60	55	80	41	45	68
245328	60	55	80	42	47	69
245330	60	55	80	43	47	69
245334	60	55	80	45	50	72
245336	60	55	80	40	44	65
245337	60	55	80	42	46	68
245339	60	55	80	47	52	73
245340	60	55	80	44	48	70
245341	60	55	80	43	48	70
245344	60	55	80	46	50	73
245345	60	55	80	43	48	70
245346	60	55	80	43	47	69
245349	60	55	80	44	48	71
245351	60	55	80	43	47	70
245352	60	55	80	44	48	70
245353	60	55	80	43	48	70
245354	60	55	80	40	45	67
245355	60	55	80	41	45	66
245356	60	55	80	44	49	71
245357	60	55	80	44	48	71
245358	60	55	80	47	51	74

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245359	60	55	80	39	44	66
245360	60	55	80	40	45	66
245361	60	55	80	45	49	72
245362	60	55	80	41	45	67
245366	60	55	80	39	43	65
245367	60	55	80	45	49	72
245368	60	55	80	40	44	67
245371	60	55	80	42	46	68
245372	60	55	80	42	46	68
245374	60	55	80	47	51	73
245376	60	55	80	41	46	67
245378	60	55	80	42	46	68
245381	60	55	80	47	51	74
245382	60	55	80	42	46	68
245385	60	55	80	38	42	65
245387	60	55	80	41	46	67
245391	60	55	80	42	46	68
245393	60	55	80	43	47	69
245395	60	55	80	47	51	73
245396	60	55	80	43	47	69
245399	60	55	80	41	45	68
245400	60	55	80	43	47	69
245401	60	55	80	44	48	71
245403	60	55	80	41	46	67
245404	60	55	80	41	46	68
245411	60	55	80	41	45	66
245412	60	55	80	44	48	70
245415	60	55	80	41	46	67
245416	60	55	80	45	49	72
245418	60	55	80	40	44	66
245419	60	55	80	41	45	67
245422	60	55	80	43	47	69
245423	60	55	80	44	48	70
245424	60	55	80	46	50	74
245429	60	55	80	46	50	73
245430	60	55	80	41	45	66
245431	60	55	80	42	47	69
245432	60	55	80	60	**64**	**88**
245434	60	55	80	46	50	72
245438	60	55	80	48	52	76
245439	60	55	80	43	47	70
245440	60	55	80	45	50	72
245441	60	55	80	43	47	70
245442	60	55	80	47	51	74
245443	60	55	80	48	52	75
245445	60	55	80	43	47	69
245446	60	55	80	42	47	69
245447	60	55	80	42	46	69
245449	60	55	80	43	47	70
245451	60	55	80	43	47	70
245452	60	55	80	47	52	74
245453	60	55	80	43	47	69
245454	60	55	80	56	**60**	**84**
245455	60	55	80	42	46	69
245456	60	55	80	44	48	71
245459	60	55	80	**61**	**65**	**89**
245462	60	55	80	52	**56**	80
245463	60	55	80	43	47	70
245466	60	55	80	43	47	69
245469	60	55	80	43	47	69
245470	60	55	80	42	46	69
245471	60	55	80	44	48	70
245474	60	55	80	45	49	72

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245475	60	55	80	44	49	71
245476	60	55	80	44	48	71
245477	60	55	80	47	51	74
245478	60	55	80	45	49	72
245480	60	55	80	45	49	72
245481	60	55	80	46	50	72
245484	60	55	80	46	50	73
245485	60	55	80	43	47	70
245488	60	55	80	44	48	69
245489	60	55	80	46	50	73
245490	60	55	80	44	49	71
245491	60	55	80	45	50	72
245494	60	55	80	47	51	74
245496	60	55	80	47	51	73
245497	60	55	80	47	52	74
245502	60	55	80	45	49	72
245512	60	55	80	**61**	**65**	**89**
245517	60	55	80	60	**64**	**90**
245520	60	55	80	42	47	68
245523	60	55	80	54	**58**	**82**
245524	60	55	80	58	**63**	**87**
245541	60	55	80	54	**59**	**82**
245542	60	55	80	45	49	71
245543	60	55	80	44	48	69
245544	60	55	80	52	**56**	80
245553	60	55	80	45	50	71
245558	60	55	80	47	51	73
245578	60	55	80	48	52	75
245579	60	55	80	46	50	72
245580	60	55	80	45	49	71
245586	60	55	80	48	52	76
245588	60	55	80	39	43	66
245591	60	55	80	39	44	66
245593	60	55	80	44	49	72
245601	60	55	80	44	48	71
245604	60	55	80	40	45	67
245605	60	55	80	41	45	68
245606	60	55	80	41	46	69
245608	60	55	80	40	45	67
245611	60	55	80	42	46	70
245612	60	55	80	42	46	68
245615	60	55	80	44	48	70
245617	60	55	80	47	52	73
245619	60	55	80	42	47	70
245629	60	55	80	42	46	69
245631	60	55	80	41	45	68
245635	60	55	80	42	46	70
245638	60	55	80	48	53	75
245639	60	55	80	48	52	75
245641	60	55	80	41	46	68
245643	60	55	80	40	45	68
245644	60	55	80	40	44	68
245645	60	55	80	42	46	69
245646	60	55	80	42	47	69
245650	60	55	80	44	48	72
245651	60	55	80	42	46	68
245658	60	55	80	44	48	70
245660	60	55	80	42	47	69
245662	60	55	80	45	50	72
245663	60	55	80	44	48	71
245664	60	55	80	43	48	70
245666	60	55	80	44	48	70
245677	60	55	80	38	42	63

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245697	60	55	80	36	41	63
245705	60	55	80	38	43	64
245706	60	55	80	39	43	65
245707	60	55	80	44	48	71
245709	60	55	80	37	41	63
245713	60	55	80	38	42	64
245717	60	55	80	39	43	64
245718	60	55	80	36	41	62
245721	60	55	80	39	43	65
245722	60	55	80	37	42	64
245727	60	55	80	39	43	65
245728	60	55	80	42	47	70
245737	60	55	80	39	43	65
245741	60	55	80	38	43	65
245749	60	55	80	40	44	66
245754	60	55	80	37	41	64
245757	60	55	80	44	48	72
245758	60	55	80	40	45	67
245759	60	55	80	40	44	65
245760	60	55	80	38	43	64
245770	60	55	80	40	44	65
245772	60	55	80	39	44	66
245780	60	55	80	38	42	65
245788	60	55	80	39	44	65
245790	60	55	80	39	43	65
245794	60	55	80	40	44	66
245795	60	55	80	43	48	71
245806	60	55	80	39	43	65
245808	60	55	80	39	43	66
245820	60	55	80	43	47	70
245821	60	55	80	39	43	65
245825	60	55	80	39	44	66
245827	60	55	80	39	44	65
245831	60	55	80	37	41	64
245833	60	55	80	40	44	66
245836	60	55	80	38	42	64
245840	60	55	80	39	43	65
245848	60	55	80	43	47	70
245851	60	55	80	40	44	65
245852	60	55	80	37	42	63
245856	60	55	80	40	45	67
245858	60	55	80	39	43	65
245861	60	55	80	40	44	66
245865	60	55	80	41	45	68
245866	60	55	80	40	44	65
245870	60	55	80	41	45	67
245871	60	55	80	41	45	68
245877	60	55	80	42	47	69
245878	60	55	80	38	43	65
245882	60	55	80	39	43	66
245885	60	55	80	44	48	71
245886	60	55	80	40	44	66
245887	60	55	80	41	45	68
245889	60	55	80	40	44	65
245891	60	55	80	40	44	67
245895	60	55	80	43	47	70
245897	60	55	80	39	44	67
245899	60	55	80	39	44	67
245901	60	55	80	41	45	69
245902	60	55	80	41	45	68
245903	60	55	80	40	45	67
245906	60	55	80	40	45	67
245910	60	55	80	43	47	69

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
245912	60	55	80	42	46	70
245914	60	55	80	42	47	70
245915	60	55	80	41	45	67
245917	60	55	80	42	47	70
245918	60	55	80	41	45	67
245923	60	55	80	41	45	68
245924	60	55	80	45	49	72
245925	60	55	80	38	43	66
245926	60	55	80	42	46	69
245933	60	55	80	42	46	70
245934	60	55	80	43	47	70
245935	60	55	80	41	46	67
245936	60	55	80	39	43	65
245940	60	55	80	42	46	69
245942	60	55	80	42	46	70
245945	60	55	80	42	47	68
245950	60	55	80	40	44	66
245951	60	55	80	42	46	69
245953	60	55	80	42	46	68
245954	60	55	80	44	48	71
245956	60	55	80	41	45	69
245958	60	55	80	42	46	68
245959	60	55	80	42	46	69
245965	60	55	80	42	46	70
245966	60	55	80	40	44	67
245972	60	55	80	42	46	69
245974	60	55	80	45	49	72
245977	60	55	80	40	44	66
245978	60	55	80	41	46	69
245979	60	55	80	42	46	68
245980	60	55	80	43	47	69
245981	60	55	80	41	45	67
245982	60	55	80	41	45	67
245992	60	55	80	42	46	69
245993	60	55	80	43	47	70
245994	60	55	80	39	44	65
245995	60	55	80	42	46	69
245997	60	55	80	41	46	67
245998	60	55	80	41	45	68
246000	60	55	80	46	50	74
246001	60	55	80	45	49	72
246004	60	55	80	41	45	68
246006	60	55	80	38	43	64
246008	60	55	80	41	46	68
246010	60	55	80	41	46	68
246012	60	55	80	44	49	72
246014	60	55	80	41	45	68
246015	60	55	80	40	44	67
246016	60	55	80	41	45	67
246017	60	55	80	46	50	74
246020	60	55	80	42	46	69
246021	60	55	80	41	45	67
246022	60	55	80	41	45	68
246023	60	55	80	40	44	67
246024	60	55	80	41	45	67
246025	60	55	80	42	47	69
246028	60	55	80	41	46	68
246030	60	55	80	45	49	72
246033	60	55	80	41	45	67
246035	60	55	80	43	47	71
246036	60	55	80	39	43	67
246037	60	55	80	42	46	70
246038	60	55	80	40	45	67

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246041	60	55	80	41	45	67
246043	60	55	80	51	55	79
246045	60	55	80	45	49	72
246046	60	55	80	40	45	68
246047	60	55	80	41	46	68
246048	60	55	80	41	46	68
246051	60	55	80	44	49	72
246052	60	55	80	41	46	69
246054	60	55	80	53	**58**	**81**
246057	60	55	80	42	46	68
246059	60	55	80	41	45	68
246061	60	55	80	42	46	68
246064	60	55	80	38	42	66
246066	60	55	80	41	46	68
246067	60	55	80	43	47	70
246069	60	55	80	43	48	71
246071	60	55	80	45	50	72
246072	60	55	80	43	48	71
246073	60	55	80	41	45	69
246074	60	55	80	41	46	69
246077	60	55	80	43	47	69
246081	60	55	80	44	48	70
246083	60	55	80	44	48	71
246086	60	55	80	43	47	71
246090	60	55	80	43	47	70
246092	60	55	80	42	47	70
246096	60	55	80	41	45	69
246098	60	55	80	42	46	70
246100	60	55	80	42	46	69
246102	60	55	80	44	48	71
246103	60	55	80	43	47	70
246104	60	55	80	42	47	69
246106	60	55	80	44	49	70
246108	60	55	80	43	47	71
246109	60	55	80	43	48	71
246110	60	55	80	44	48	70
246112	60	55	80	42	46	68
246113	60	55	80	49	53	77
246114	60	55	80	41	45	68
246119	60	55	80	43	48	71
246123	60	55	80	42	46	69
246124	60	55	80	41	46	68
246126	60	55	80	43	47	71
246127	60	55	80	42	46	70
246128	60	55	80	43	48	69
246129	60	55	80	42	47	69
246130	60	55	80	44	48	72
246133	60	55	80	45	49	72
246134	60	55	80	43	47	70
246137	60	55	80	44	48	70
246140	60	55	80	43	47	71
246142	60	55	80	44	48	71
246143	60	55	80	43	47	69
246147	60	55	80	45	49	72
246148	60	55	80	43	47	69
246149	60	55	80	48	52	75
246151	60	55	80	43	47	70
246152	60	55	80	43	48	70
246153	60	55	80	42	46	68
246154	60	55	80	44	49	70
246155	60	55	80	44	49	70
246157	60	55	80	44	48	71
246159	60	55	80	44	49	71

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246162	60	55	80	42	46	68
246163	60	55	80	44	49	70
246166	60	55	80	45	50	72
246168	60	55	80	45	49	71
246169	60	55	80	46	51	74
246170	60	55	80	48	52	76
246175	60	55	80	45	49	72
246177	60	55	80	41	46	68
246187	60	55	80	51	**56**	79
246188	60	55	80	45	49	71
246189	60	55	80	40	45	67
246196	60	55	80	43	48	71
246197	60	55	80	44	48	71
246200	60	55	80	45	49	72
246203	60	55	80	45	49	72
246206	60	55	80	43	48	71
246207	60	55	80	45	49	72
246210	60	55	80	45	50	73
246211	60	55	80	44	48	71
246212	60	55	80	43	48	70
246221	60	55	80	53	**57**	**81**
246224	60	55	80	48	52	75
246228	60	55	80	49	53	76
246230	60	55	80	53	**57**	**81**
246232	60	55	80	47	52	75
246235	60	55	80	45	49	73
246237	60	55	80	43	47	69
246238	60	55	80	48	52	76
246241	60	55	80	49	53	77
246242	60	55	80	48	52	75
246243	60	55	80	45	49	72
246249	60	55	80	48	53	76
246251	60	55	80	48	52	75
246259	60	55	80	49	54	77
246270	60	55	80	45	50	72
246271	60	55	80	52	**56**	79
246272	60	55	80	44	48	71
246302	60	55	80	45	50	72
246310	60	55	80	45	49	72
246319	60	55	80	46	51	73
246320	60	55	80	52	**56**	80
246321	60	55	80	46	50	73
246365	60	55	80	48	52	76
246369	60	55	80	47	51	75
246374	60	55	80	47	51	75
246387	60	55	80	49	53	77
246399	60	55	80	49	53	76
246420	60	55	80	50	54	77
246433	60	55	80	50	55	78
246439	60	55	80	50	54	77
246451	60	55	80	48	53	76
246457	60	55	80	48	53	76
246464	60	55	80	48	52	75
246470	60	55	80	54	**58**	**82**
246472	60	55	80	46	50	72
246532	60	55	80	56	**60**	**84**
246536	60	55	80	54	**59**	**82**
246552	60	55	80	44	48	71
246557	60	55	80	45	50	71
246567	60	55	80	49	53	76
246569	60	55	80	48	53	75
246570	60	55	80	46	50	72
246578	60	55	80	48	52	75

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
246587	60	55	80	48	52	75
246592	60	55	80	49	53	76
246593	60	55	80	48	52	75
246629	60	55	80	46	50	73
246673	60	55	80	58	**62**	**88**
246693	60	55	80	48	52	76
246698	60	55	80	45	49	73
246745	60	55	80	40	44	69
246747	60	55	80	36	41	65
246754	60	55	80	40	44	69
324718	60	55	80	38	43	67
324720	60	55	80	43	47	71
324729	60	55	80	48	52	74
324734	60	55	80	51	**56**	79
324738	60	55	80	53	**57**	**81**
324740	60	55	80	41	46	68
324792	60	55	80	38	42	66
324811	60	55	80	45	49	72
324819	60	55	80	46	50	73
324822	60	55	80	47	51	74
325117	60	55	80	44	48	71
325145	60	55	80	44	48	72
325292	60	55	80	43	47	72
325416	60	55	80	36	41	65
325550	60	55	80	38	42	65
325560	60	55	80	37	42	64
325572	60	55	80	35	39	63
326528	60	55	80	36	41	64
331634	60	55	80	**63**	**67**	**91**
331635	60	55	80	41	45	69
331692	60	55	80	43	47	70
331696	60	55	80	40	44	66
331698	60	55	80	49	54	77
331699	60	55	80	42	47	70
331700	60	55	80	43	48	72
331702	60	55	80	31	35	58
331704	60	55	80	39	44	67
331710	60	55	80	52	**57**	80
331715	60	55	80	37	42	65
331718	60	55	80	51	55	79
331722	60	55	80	41	46	69
331723	60	55	80	36	40	64
331724	60	55	80	41	45	69
331728	60	55	80	53	**57**	**81**
331734	60	55	80	44	48	70
331735	60	55	80	50	54	78
331738	60	55	80	49	53	76
331739	60	55	80	41	45	67
331740	60	55	80	28	33	56
331746	60	55	80	45	50	73
331749	60	55	80	52	**56**	80
331751	60	55	80	39	44	68
331759	60	55	80	50	54	77
331764	60	55	80	49	53	77
331766	60	55	80	46	50	75
331771	60	55	80	49	53	75
331774	60	55	80	51	**56**	80
331786	60	55	80	47	51	74
331788	60	55	80	37	41	65
331791	60	55	80	47	52	75
331798	60	55	80	49	53	75
331804	60	55	80	37	42	65
331805	60	55	80	45	49	73

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
331814	60	55	80	43	47	69
331822	60	55	80	49	54	77
331823	60	55	80	47	52	75
331830	60	55	80	51	55	78
331833	60	55	80	43	48	72
331834	60	55	80	51	**56**	79
331835	60	55	80	35	40	61
331839	60	55	80	49	53	76
331844	60	55	80	48	52	76
331845	60	55	80	45	49	72
331847	60	55	80	44	49	72
331849	60	55	80	43	47	72
331850	60	55	80	44	48	71
331851	60	55	80	58	**62**	**86**
331852	60	55	80	55	**59**	**83**
331855	60	55	80	51	55	79
331859	60	55	80	51	**56**	80
331860	60	55	80	55	**59**	**84**
331869	60	55	80	44	48	71
331905	60	55	80	36	40	64
331915	60	55	80	45	49	73
331921	60	55	80	40	45	68
331922	60	55	80	40	45	68
331924	60	55	80	50	54	78
331932	60	55	80	45	50	73
331940	60	55	80	36	41	64
331960	60	55	80	42	47	71
331977	60	55	80	52	**56**	80
331978	60	55	80	47	51	74
331980	60	55	80	45	49	71
331995	60	55	80	43	48	69
332012	60	55	80	39	43	66
332019	60	55	80	44	49	73
332023	60	55	80	51	55	80
332028	60	55	80	45	50	73
332038	60	55	80	52	**57**	**81**
332039	60	55	80	39	43	67
332044	60	55	80	50	54	78
332047	60	55	80	53	**58**	**82**
332056	60	55	80	50	54	78
332060	60	55	80	39	43	66
332063	60	55	80	59	**63**	**88**
332070	60	55	80	46	51	74
332072	60	55	80	44	49	71
332076	60	55	80	47	52	75
332090	60	55	80	49	53	77
332156	60	55	80	40	45	68
332265	60	55	80	49	53	78
332313	60	55	80	37	41	64
332427	60	55	80	42	47	70
332428	60	55	80	43	47	69
332429	60	55	80	46	50	72
332430	60	55	80	38	43	67
332431	60	55	80	41	45	68
332432	60	55	80	45	49	72
332434	60	55	80	49	53	77
332435	60	55	80	41	46	69
332437	60	55	80	46	51	74
332438	60	55	80	42	47	69
332439	60	55	80	45	49	72
332440	60	55	80	43	48	70
332441	60	55	80	43	48	69
332453	60	55	80	44	49	72

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332455	60	55	80	43	48	71
332459	60	55	80	49	54	77
332461	60	55	80	45	50	73
332462	60	55	80	41	46	68
332463	60	55	80	43	48	69
332464	60	55	80	46	51	73
332465	60	55	80	46	50	73
332467	60	55	80	54	**59**	**83**
332468	60	55	80	39	44	66
332470	60	55	80	41	45	68
332471	60	55	80	52	**56**	80
332472	60	55	80	44	48	72
332475	60	55	80	42	46	69
332476	60	55	80	41	46	68
332477	60	55	80	42	46	68
332478	60	55	80	42	47	69
332480	60	55	80	42	46	70
332484	60	55	80	41	46	68
332485	60	55	80	39	43	67
332498	60	55	80	41	46	68
332612	60	55	80	39	44	67
332614	60	55	80	41	45	68
332615	60	55	80	53	**58**	**81**
332616	60	55	80	49	53	76
332618	60	55	80	41	45	67
332622	60	55	80	44	48	71
332623	60	55	80	40	45	66
332624	60	55	80	42	47	69
332625	60	55	80	42	46	69
332626	60	55	80	42	46	69
332627	60	55	80	41	45	68
332628	60	55	80	42	46	69
332630	60	55	80	44	48	71
332633	60	55	80	42	46	68
332634	60	55	80	44	48	71
332635	60	55	80	42	47	69
332636	60	55	80	43	47	69
332637	60	55	80	43	48	70
332638	60	55	80	42	46	67
332639	60	55	80	41	46	69
332640	60	55	80	41	45	67
332641	60	55	80	43	47	70
332646	60	55	80	39	44	67
332648	60	55	80	41	45	68
332650	60	55	80	40	44	67
332651	60	55	80	41	46	68
332652	60	55	80	43	48	70
332655	60	55	80	41	45	67
332656	60	55	80	41	46	68
332657	60	55	80	42	46	70
332663	60	55	80	43	47	70
332664	60	55	80	41	45	68
332665	60	55	80	40	44	64
332666	60	55	80	42	46	69
332667	60	55	80	42	46	69
332668	60	55	80	43	47	69
332669	60	55	80	41	45	68
332671	60	55	80	40	44	67
332672	60	55	80	43	48	70
332673	60	55	80	42	46	67
332674	60	55	80	40	45	65
332676	60	55	80	44	48	71
332677	60	55	80	40	44	67

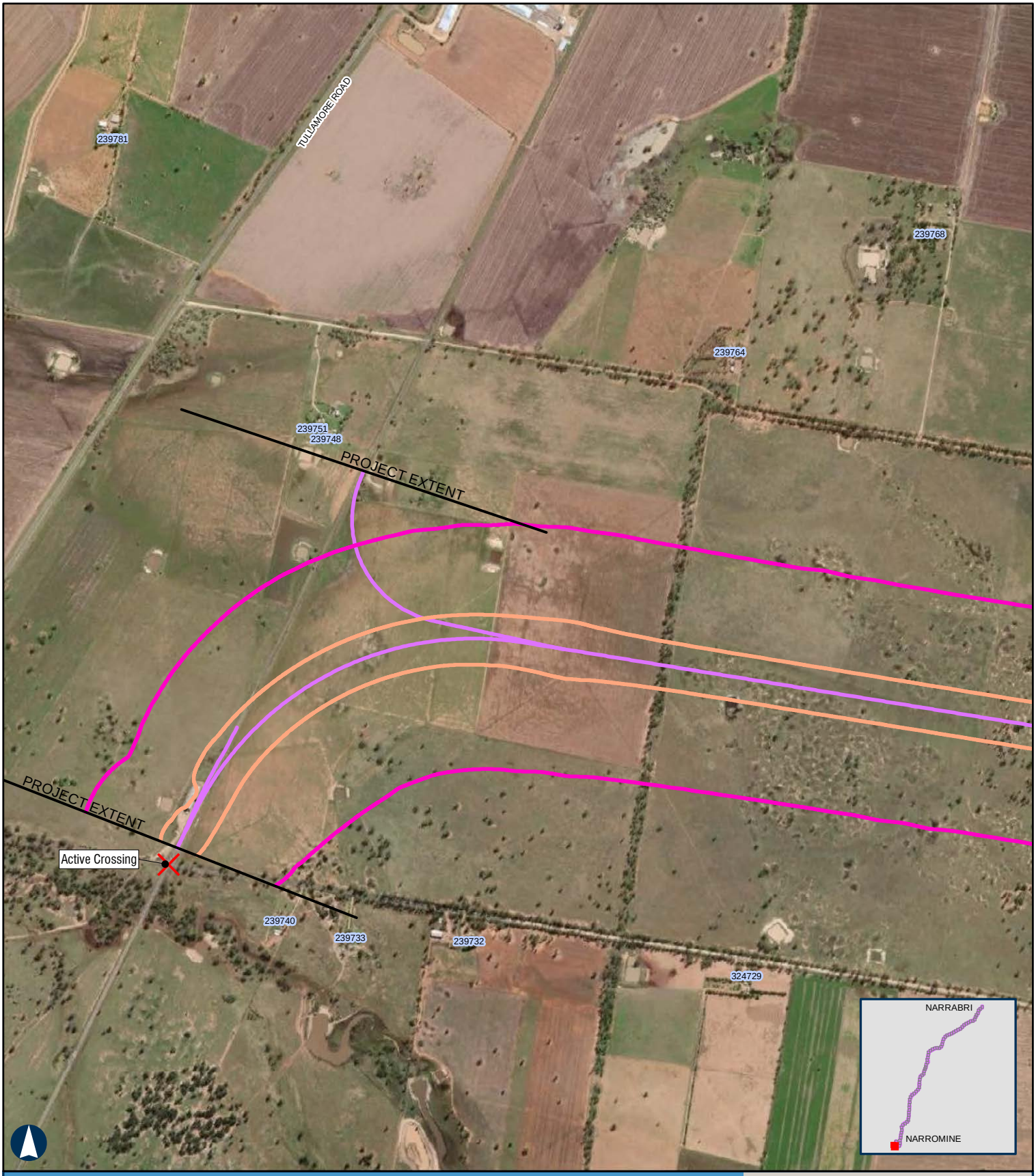
Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332678	60	55	80	41	45	66
332681	60	55	80	42	46	69
332682	60	55	80	41	45	67
332683	60	55	80	43	47	69
332684	60	55	80	38	43	64
332688	60	55	80	41	46	69
332689	60	55	80	41	45	67
332696	60	55	80	44	48	71
332697	60	55	80	38	42	64
332698	60	55	80	42	46	68
332699	60	55	80	38	43	64
332706	60	55	80	43	47	70
332707	60	55	80	42	46	69
332712	60	55	80	43	47	70
332713	60	55	80	42	47	69
332714	60	55	80	43	47	70
332715	60	55	80	41	45	68
332719	60	55	80	43	48	70
332720	60	55	80	40	44	65
332721	60	55	80	41	45	67
332722	60	55	80	41	46	68
332723	60	55	80	41	45	68
332724	60	55	80	41	45	68
332731	60	55	80	38	42	65
332734	60	55	80	39	43	65
332735	60	55	80	40	44	66
332736	60	55	80	40	45	67
332739	60	55	80	49	53	76
332741	60	55	80	45	49	72
332742	60	55	80	40	45	66
332743	60	55	80	42	46	69
332744	60	55	80	39	44	66
332745	60	55	80	42	46	68
332746	60	55	80	41	45	68
332749	60	55	80	40	45	68
332754	60	55	80	46	50	74
332760	60	55	80	44	48	70
332763	60	55	80	41	45	68
332764	60	55	80	40	45	68
332765	60	55	80	39	44	66
332770	60	55	80	42	46	69
332773	60	55	80	43	48	70
332774	60	55	80	43	48	69
332775	60	55	80	42	46	69
332777	60	55	80	38	42	66
332780	60	55	80	50	54	77
332781	60	55	80	40	45	65
332783	60	55	80	46	51	74
332784	60	55	80	41	45	67
332786	60	55	80	48	53	76
332787	60	55	80	42	47	69
332788	60	55	80	42	46	69
332791	60	55	80	43	47	70
332794	60	55	80	42	46	67
332796	60	55	80	42	46	68
332797	60	55	80	41	45	68
332799	60	55	80	43	47	69
332800	60	55	80	43	47	70
332801	60	55	80	42	46	68
332802	60	55	80	42	47	69
332803	60	55	80	42	46	68
332804	60	55	80	43	47	69
332806	60	55	80	44	49	71

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332810	60	55	80	40	45	67
332811	60	55	80	41	45	67
332812	60	55	80	41	45	67
332813	60	55	80	41	45	68
332817	60	55	80	45	49	71
332822	60	55	80	44	48	71
332824	60	55	80	45	50	73
332825	60	55	80	43	47	70
332829	60	55	80	43	47	70
332830	60	55	80	40	44	66
332831	60	55	80	48	52	75
332833	60	55	80	42	46	68
332835	60	55	80	56	**60**	**83**
332839	60	55	80	41	45	66
332841	60	55	80	41	45	67
332843	60	55	80	40	44	67
332844	60	55	80	50	54	77
332845	60	55	80	50	55	78
332847	60	55	80	43	47	69
332849	60	55	80	43	47	69
332850	60	55	80	41	45	67
332853	60	55	80	38	42	66
332857	60	55	80	41	45	67
332858	60	55	80	38	43	66
332859	60	55	80	40	44	66
332860	60	55	80	39	43	66
332861	60	55	80	41	45	67
332863	60	55	80	43	47	69
332864	60	55	80	42	47	70
332865	60	55	80	43	47	68
332866	60	55	80	50	54	77
332867	60	55	80	41	45	66
332868	60	55	80	42	46	67
332870	60	55	80	43	47	70
332879	60	55	80	42	47	68
332880	60	55	80	42	46	70
332881	60	55	80	43	47	70
332882	60	55	80	44	48	70
332883	60	55	80	42	46	69
332884	60	55	80	46	50	73
332885	60	55	80	46	50	73
332887	60	55	80	41	45	68
332888	60	55	80	41	45	68
332889	60	55	80	41	45	68
332898	60	55	80	42	46	69
332899	60	55	80	41	46	69
332900	60	55	80	41	45	68
332901	60	55	80	41	45	68
332902	60	55	80	42	46	68
332903	60	55	80	45	49	72
332905	60	55	80	50	54	77
332906	60	55	80	49	53	77
332909	60	55	80	42	46	69
332914	60	55	80	41	46	68
332915	60	55	80	38	42	64
332916	60	55	80	40	44	67
332917	60	55	80	42	47	68
332918	60	55	80	43	47	71
332919	60	55	80	42	46	69
332920	60	55	80	39	43	67
332922	60	55	80	50	54	77
332924	60	55	80	49	53	77
332931	60	55	80	41	45	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
332932	60	55	80	43	48	70
332934	60	55	80	40	44	66
332936	60	55	80	38	43	64
332937	60	55	80	40	44	66
332938	60	55	80	44	48	70
332940	60	55	80	44	48	71
332941	60	55	80	44	48	69
332942	60	55	80	46	50	73
332944	60	55	80	43	47	70
332945	60	55	80	45	50	72
332946	60	55	80	43	47	70
332947	60	55	80	41	46	67
332948	60	55	80	41	45	67
332949	60	55	80	39	44	65
332951	60	55	80	43	47	69
332953	60	55	80	43	47	70
332954	60	55	80	42	46	69
332955	60	55	80	42	46	69
332959	60	55	80	47	52	74
332964	60	55	80	47	51	73
332965	60	55	80	46	51	72
332968	60	55	80	40	44	67
332969	60	55	80	43	47	71
332970	60	55	80	42	46	70
332971	60	55	80	40	44	65
332972	60	55	80	39	43	64
332973	60	55	80	44	48	71
332974	60	55	80	43	48	70
332975	60	55	80	41	46	67
332976	60	55	80	40	44	66
332977	60	55	80	43	47	70
332979	60	55	80	45	49	72
332981	60	55	80	42	47	69
332982	60	55	80	44	48	70
332985	60	55	80	44	48	70
332988	60	55	80	41	45	68
332993	60	55	80	41	45	67
332996	60	55	80	42	47	68
332997	60	55	80	49	53	76
332999	60	55	80	41	46	69
333001	60	55	80	42	47	70
333002	60	55	80	40	45	67
333004	60	55	80	44	48	71
333006	60	55	80	42	47	68
333008	60	55	80	42	47	69
333009	60	55	80	43	47	69
333010	60	55	80	43	48	71
333011	60	55	80	40	44	66
333012	60	55	80	40	44	67
333013	60	55	80	40	44	66
333014	60	55	80	42	46	68
333015	60	55	80	40	44	67
333016	60	55	80	39	43	66
333018	60	55	80	50	55	78
333019	60	55	80	42	46	68
333020	60	55	80	46	50	72
333029	60	55	80	41	45	67
333031	60	55	80	49	54	77
333032	60	55	80	40	45	67
333034	60	55	80	44	48	71
333036	60	55	80	41	45	68
333038	60	55	80	49	53	75
333039	60	55	80	41	46	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
333041	60	55	80	44	48	71
333042	60	55	80	42	47	71
333044	60	55	80	39	43	65
333051	60	55	80	51	55	78
333052	60	55	80	42	46	70
333058	60	55	80	39	44	65
333060	60	55	80	40	44	67
333062	60	55	80	41	45	68
333063	60	55	80	40	44	66
333068	60	55	80	41	45	67
333071	60	55	80	41	46	68
333076	60	55	80	41	46	68
333077	60	55	80	42	46	67
333079	60	55	80	42	47	70
333093	60	55	80	41	45	68
333105	60	55	80	42	46	68
333109	60	55	80	42	46	67
333111	60	55	80	40	44	66
333119	60	55	80	43	47	69
333120	60	55	80	43	47	70
333146	60	55	80	41	46	68
333152	60	55	80	45	49	73
333157	60	55	80	41	45	68
333159	60	55	80	43	47	69
333179	60	55	80	42	47	68
333185	60	55	80	41	45	67
333188	60	55	80	41	45	67
333191	60	55	80	41	45	67
333192	60	55	80	42	46	68
333197	60	55	80	40	45	66
333201	60	55	80	42	46	68
333202	60	55	80	44	48	71
333204	60	55	80	42	46	68
333216	60	55	80	41	45	67
333222	60	55	80	40	44	68
333240	60	55	80	41	45	67
333248	60	55	80	40	45	65
333255	60	55	80	40	44	67
333261	60	55	80	42	47	69
333263	60	55	80	45	50	72
333271	60	55	80	46	51	74
333276	60	55	80	42	47	69
333277	60	55	80	45	49	70
333301	60	55	80	44	48	71
333304	60	55	80	43	47	69
333316	60	55	80	40	44	66
333318	60	55	80	44	48	72
333323	60	55	80	42	46	68
333329	60	55	80	41	45	67
333333	60	55	80	43	47	69
333348	60	55	80	42	46	69
333349	60	55	80	44	48	70
333355	60	55	80	40	45	67
333367	60	55	80	43	47	69
333368	60	55	80	42	46	69
333392	60	55	80	41	45	68
333398	60	55	80	44	49	71
333399	60	55	80	42	46	69
333400	60	55	80	47	52	74
333406	60	55	80	42	46	69
333410	60	55	80	48	52	75
333412	60	55	80	42	46	69
333415	60	55	80	41	45	68

Receptor ID	Rail noise criteria			Project rail noise levels dBA		
	LAeq Day	LAeq Night	LAmax	LAeq,15hr	LAeq,9hr	LAmax
333416	60	55	80	41	45	67
333417	60	55	80	41	45	68
333431	60	55	80	45	49	72
333432	60	55	80	36	40	64
333433	60	55	80	40	44	65
333434	60	55	80	40	44	66
333435	60	55	80	39	43	65
333436	60	55	80	37	41	63
333437	60	55	80	38	43	64
333451	60	55	80	41	46	67
333454	60	55	80	45	49	72
333458	60	55	80	44	48	70
333465	60	55	80	42	46	69
333470	60	55	80	43	47	71
333474	60	55	80	42	46	68
333627	60	55	80	45	49	72
333651	60	55	80	40	45	66



NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 1 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

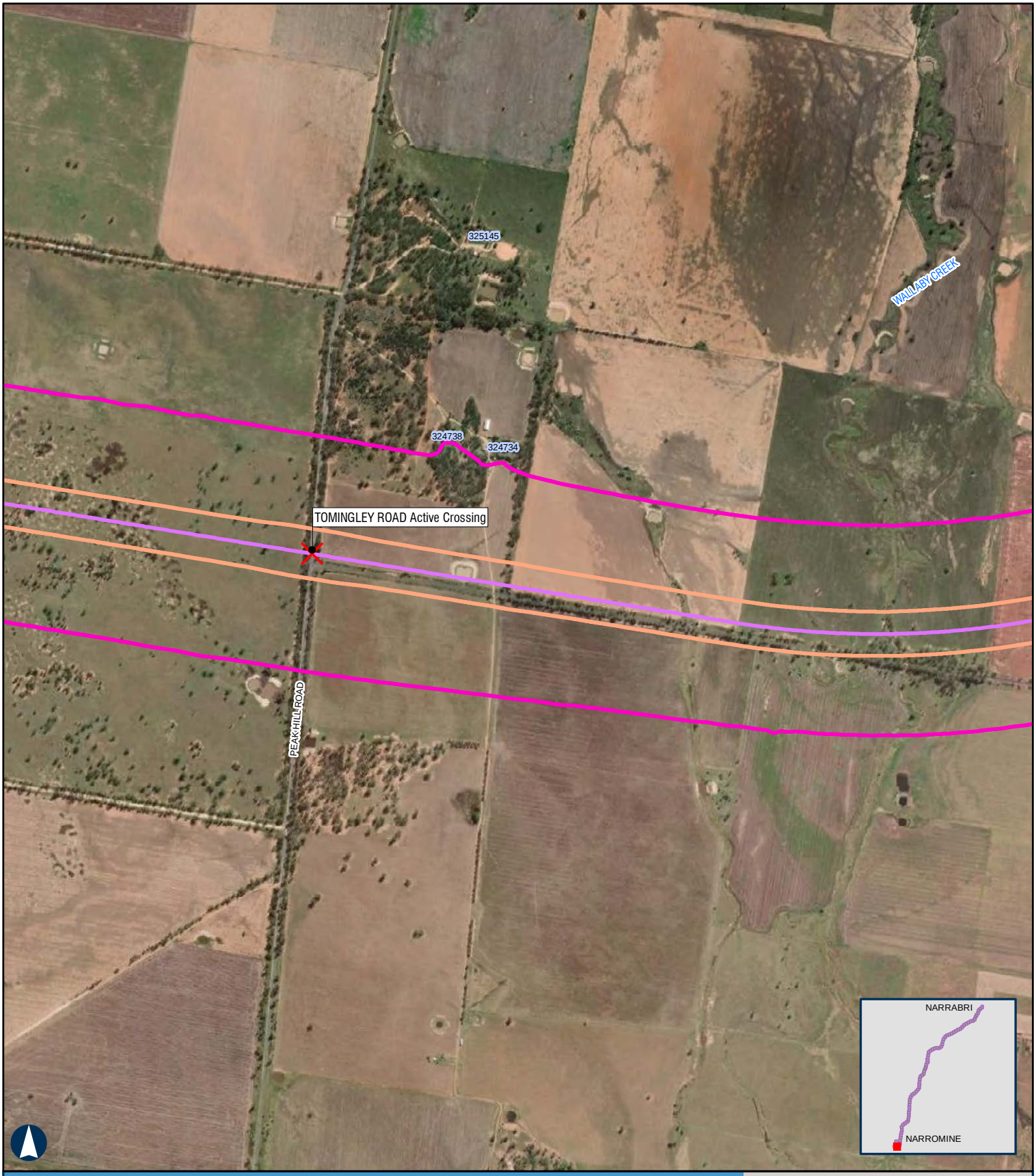
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
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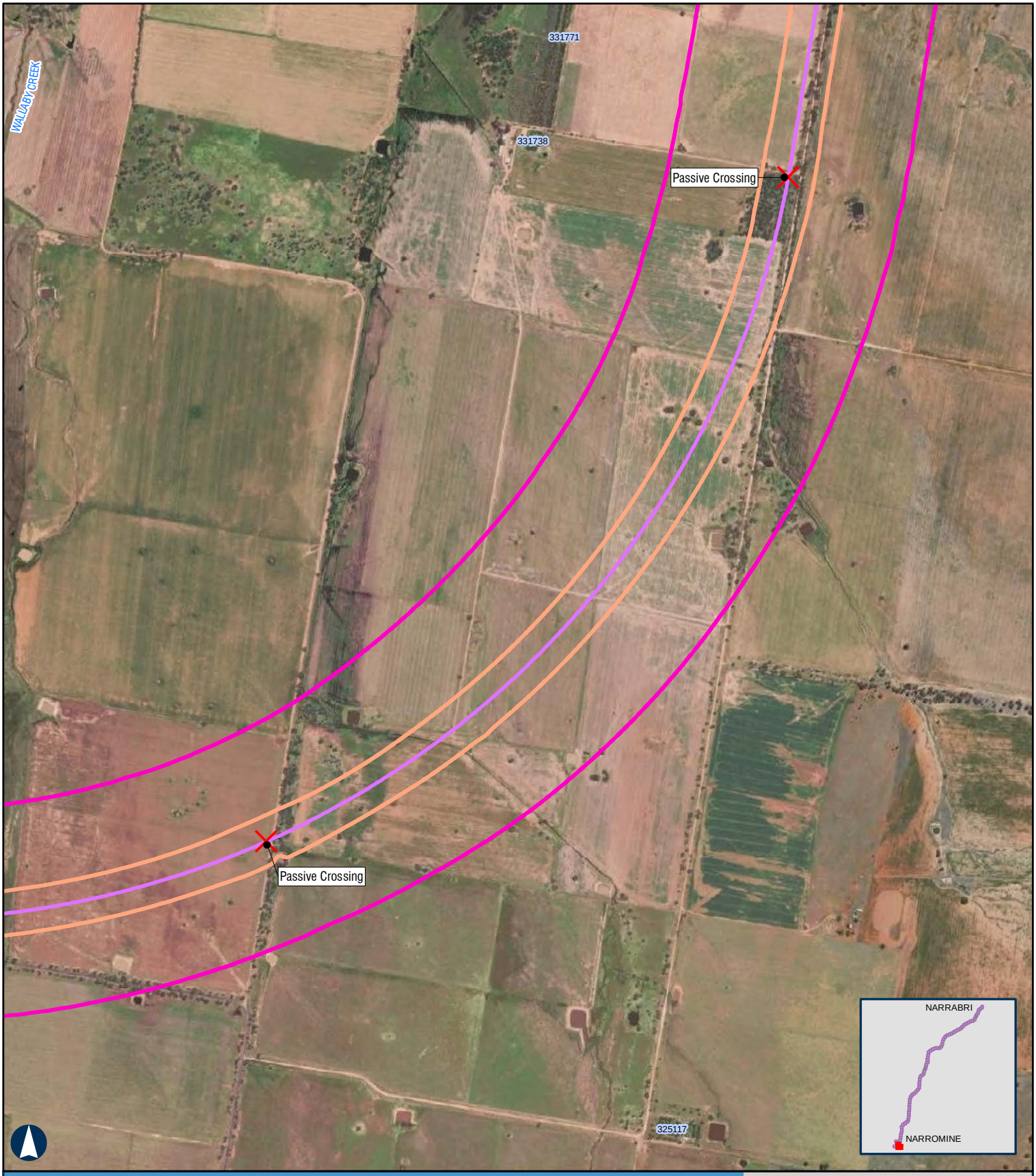
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Year 2040 Daytime Rail Noise Levels

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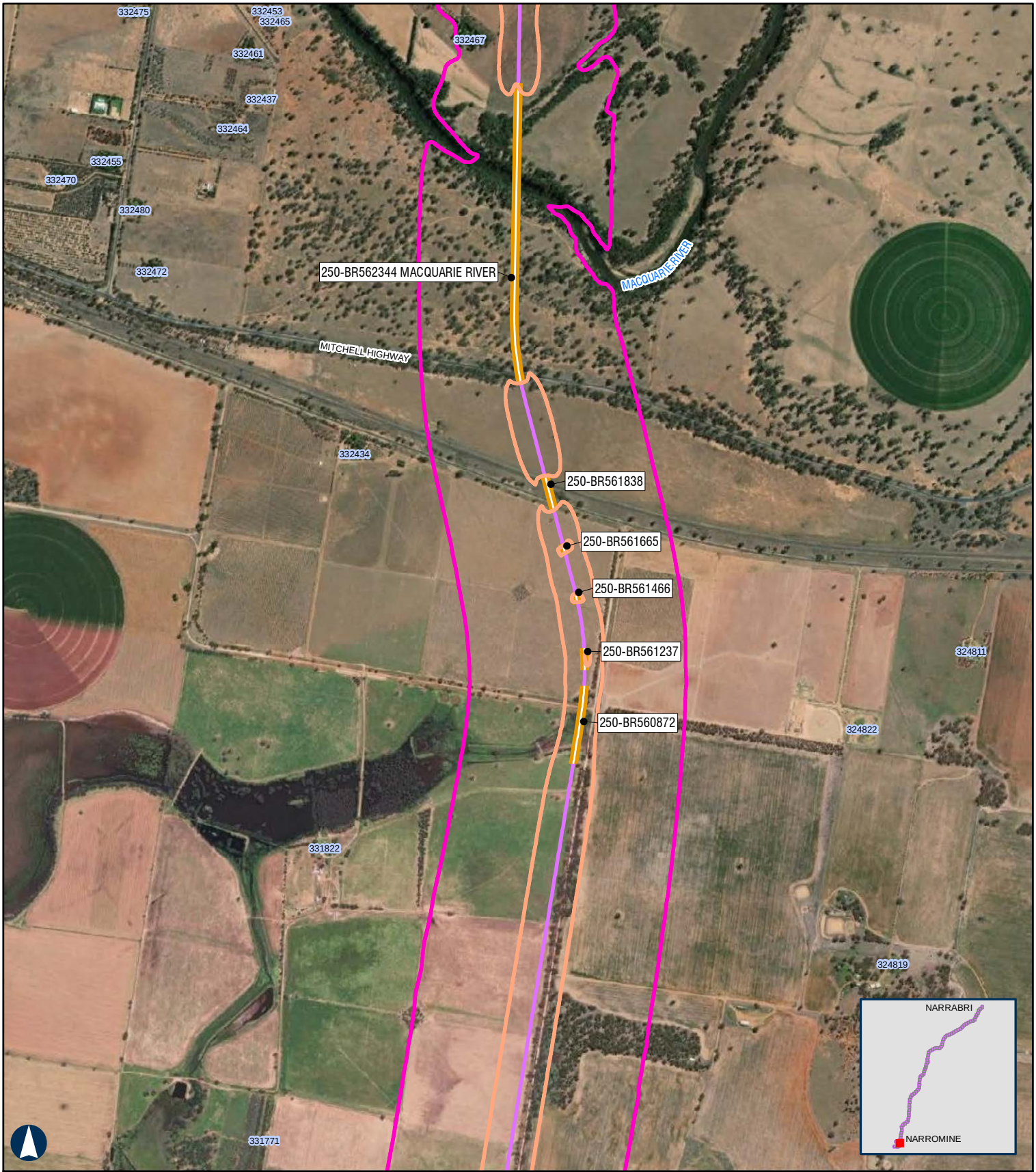
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 4 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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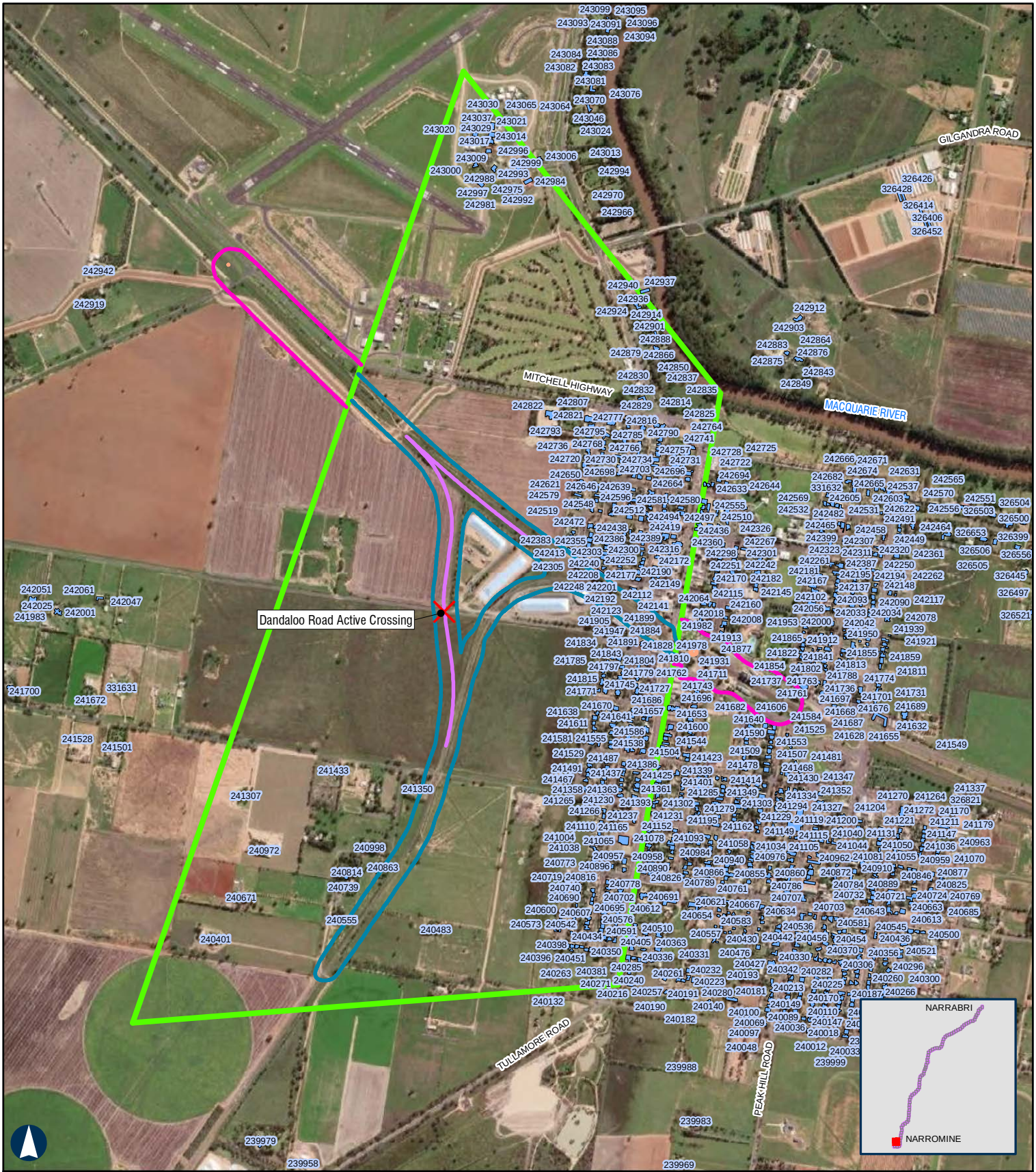
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 5 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Author: JG

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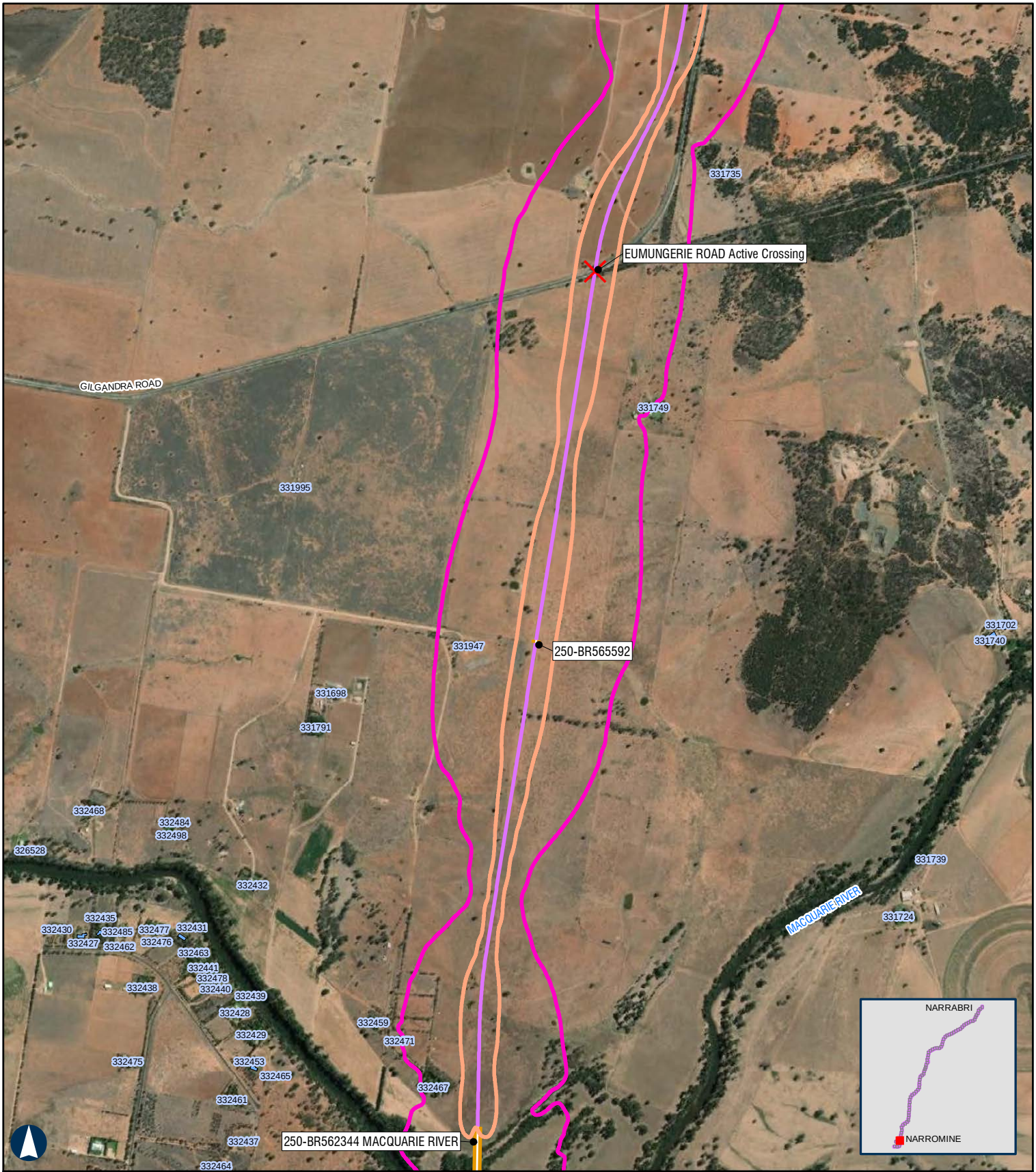
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 6 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:22,000
Date: 01-Feb-2022
Author: JG

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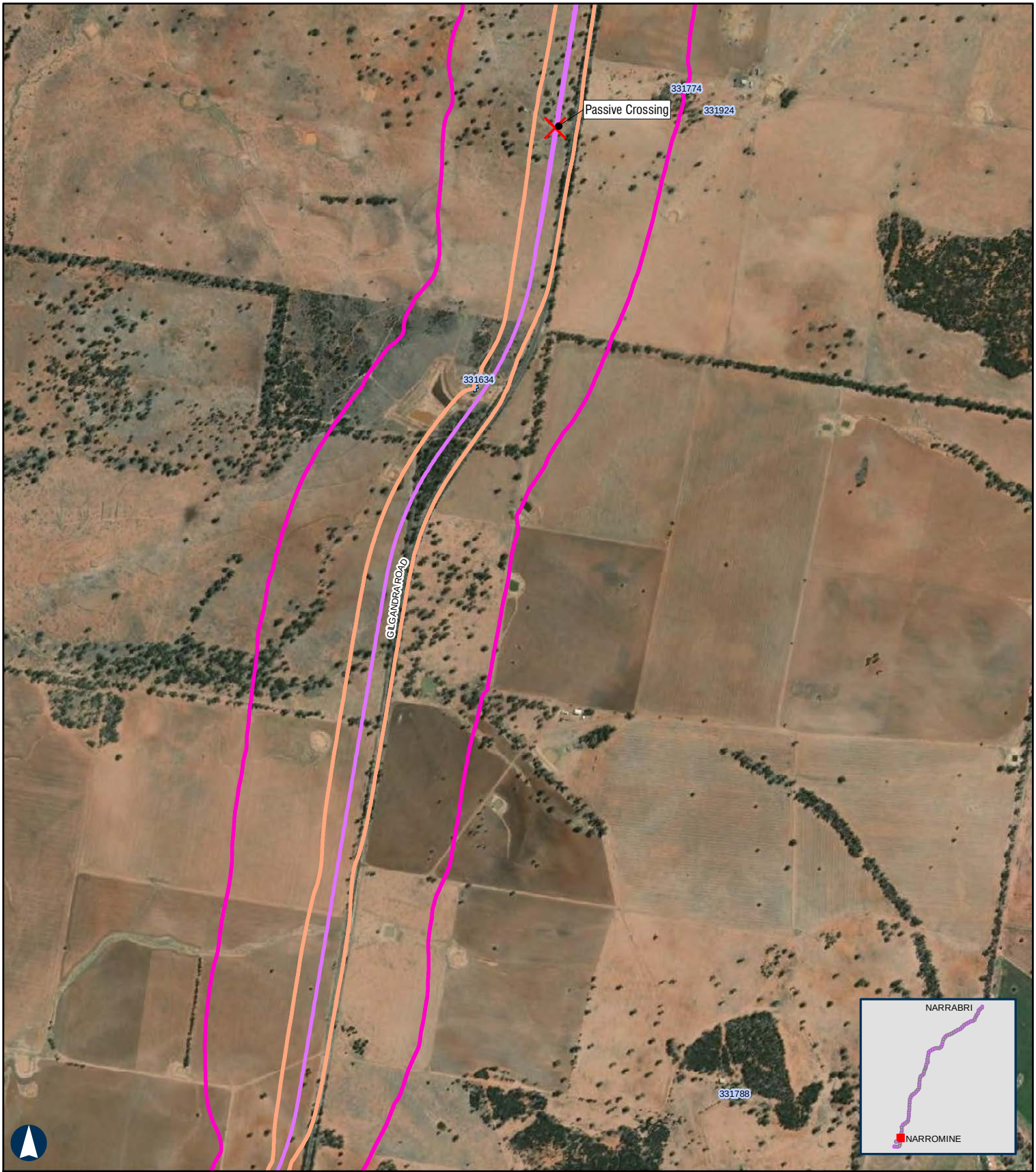
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Year 2040 Daytime Rail Noise Levels

500 m

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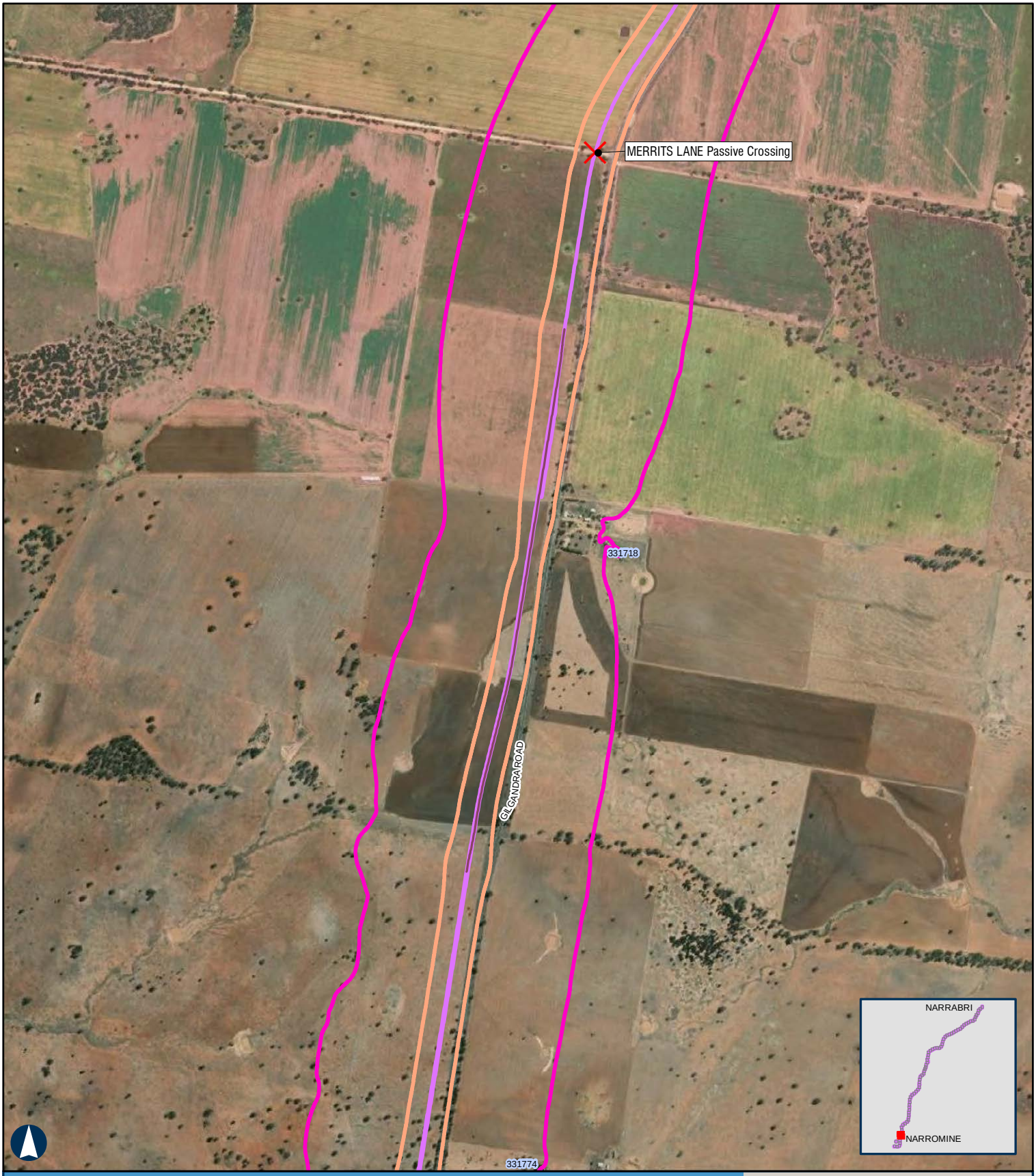
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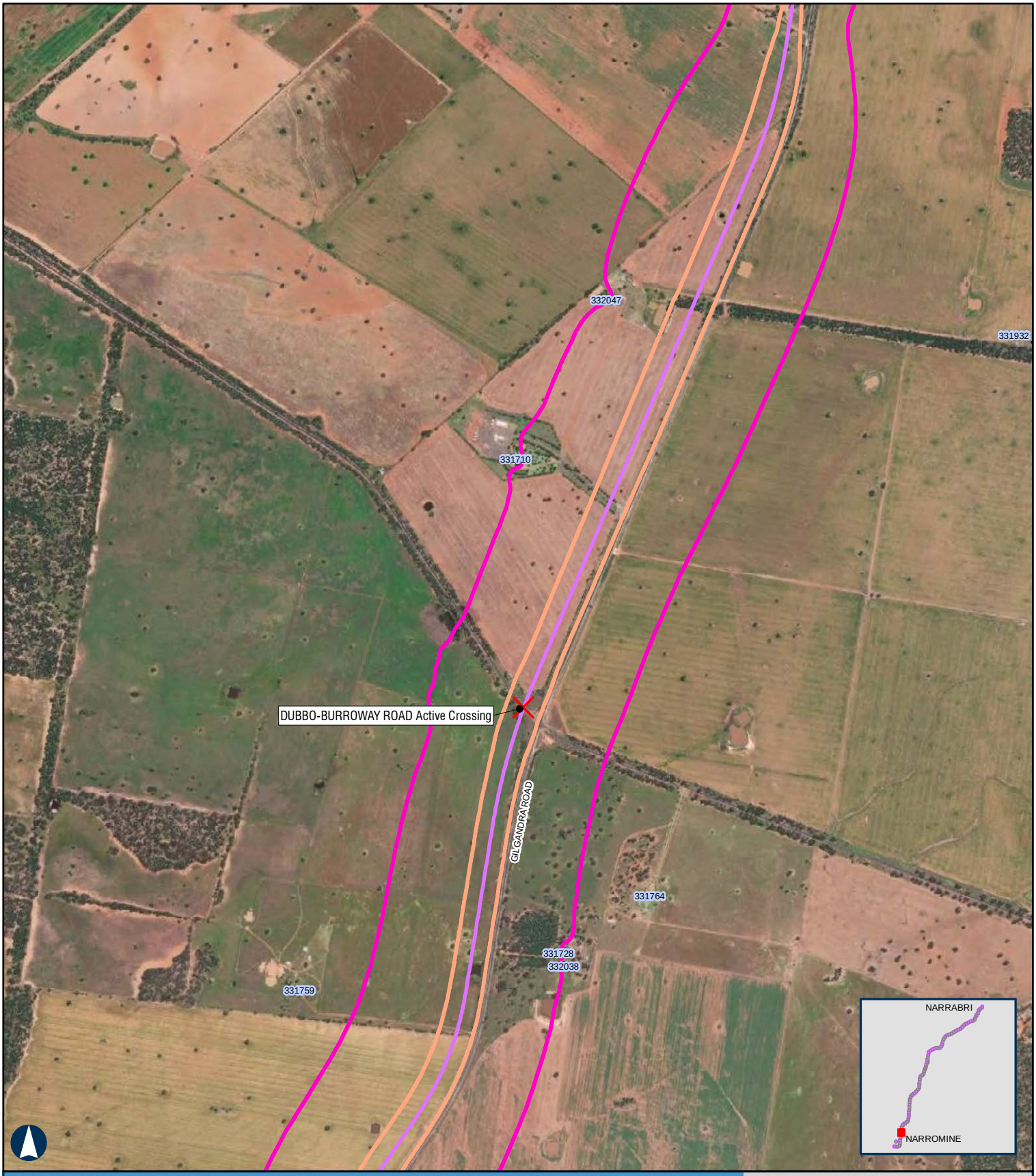
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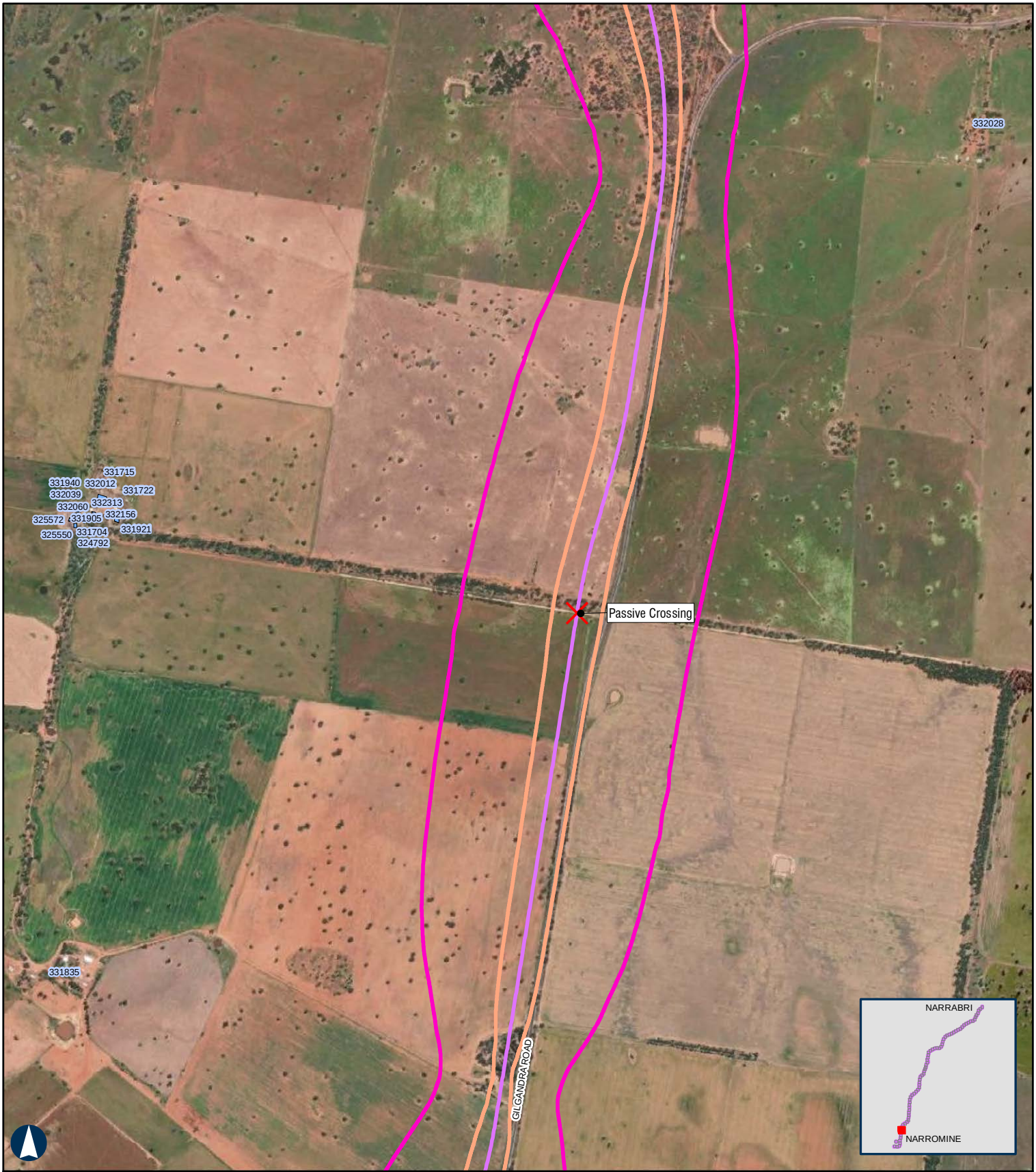
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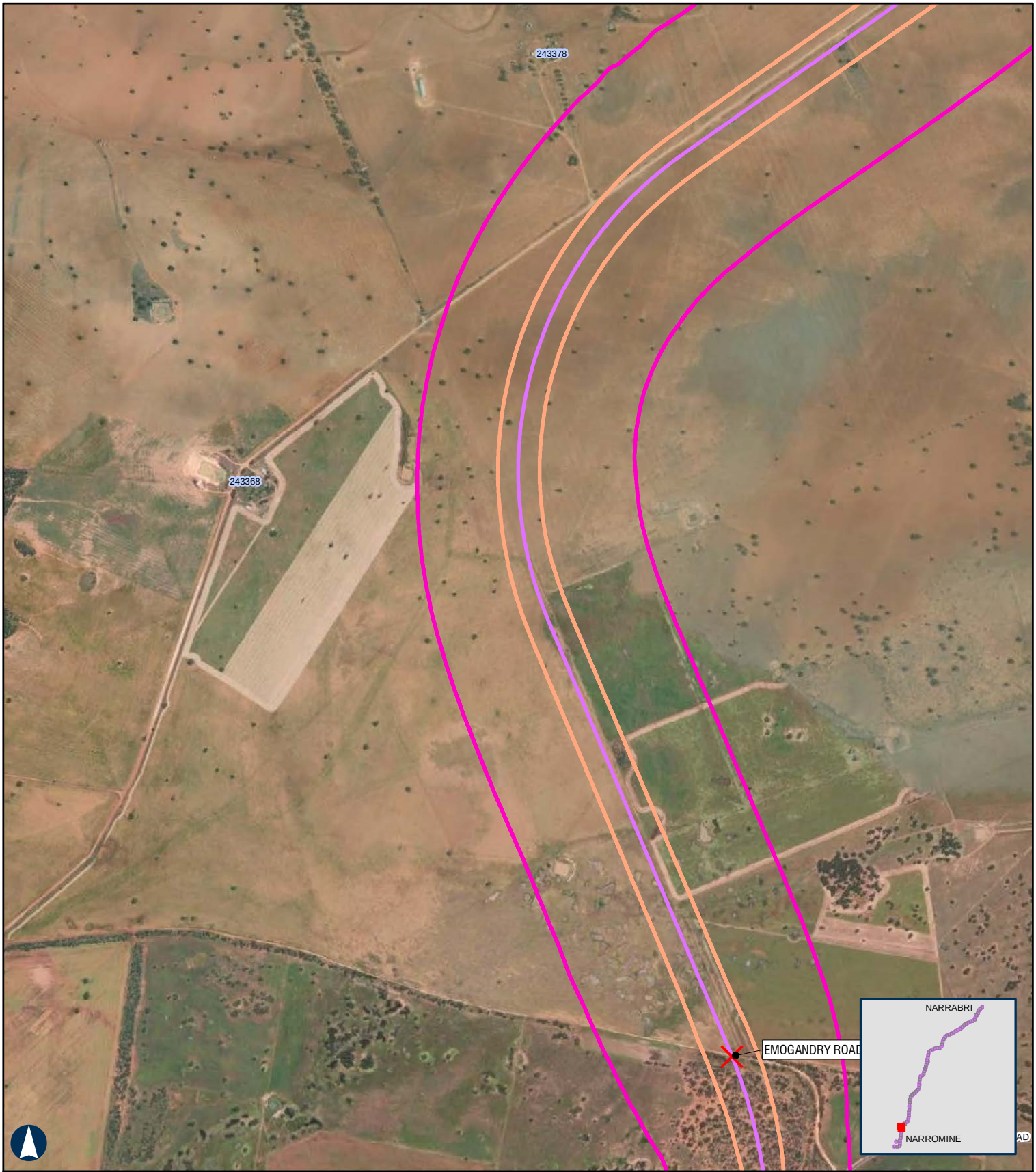
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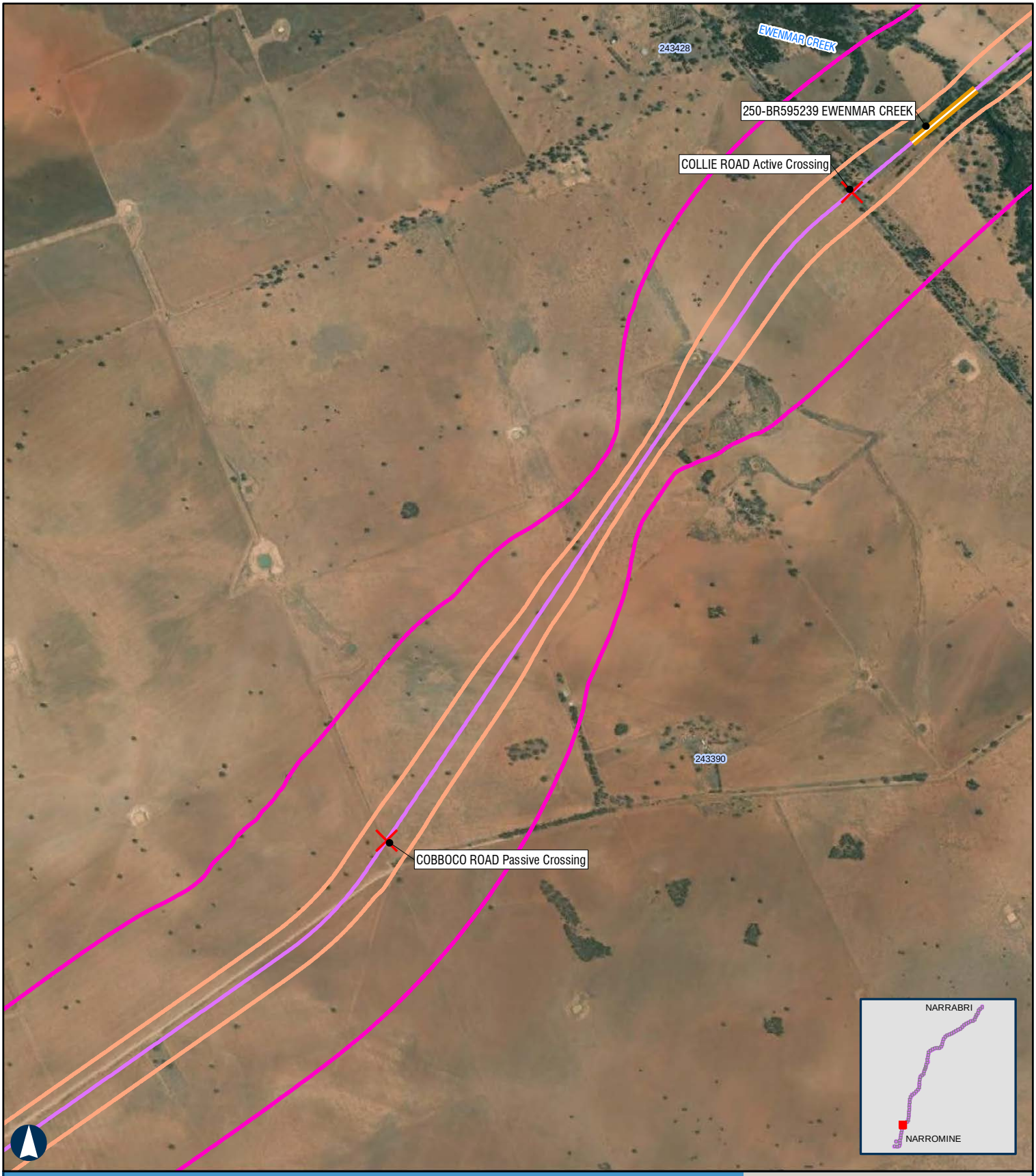
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 12 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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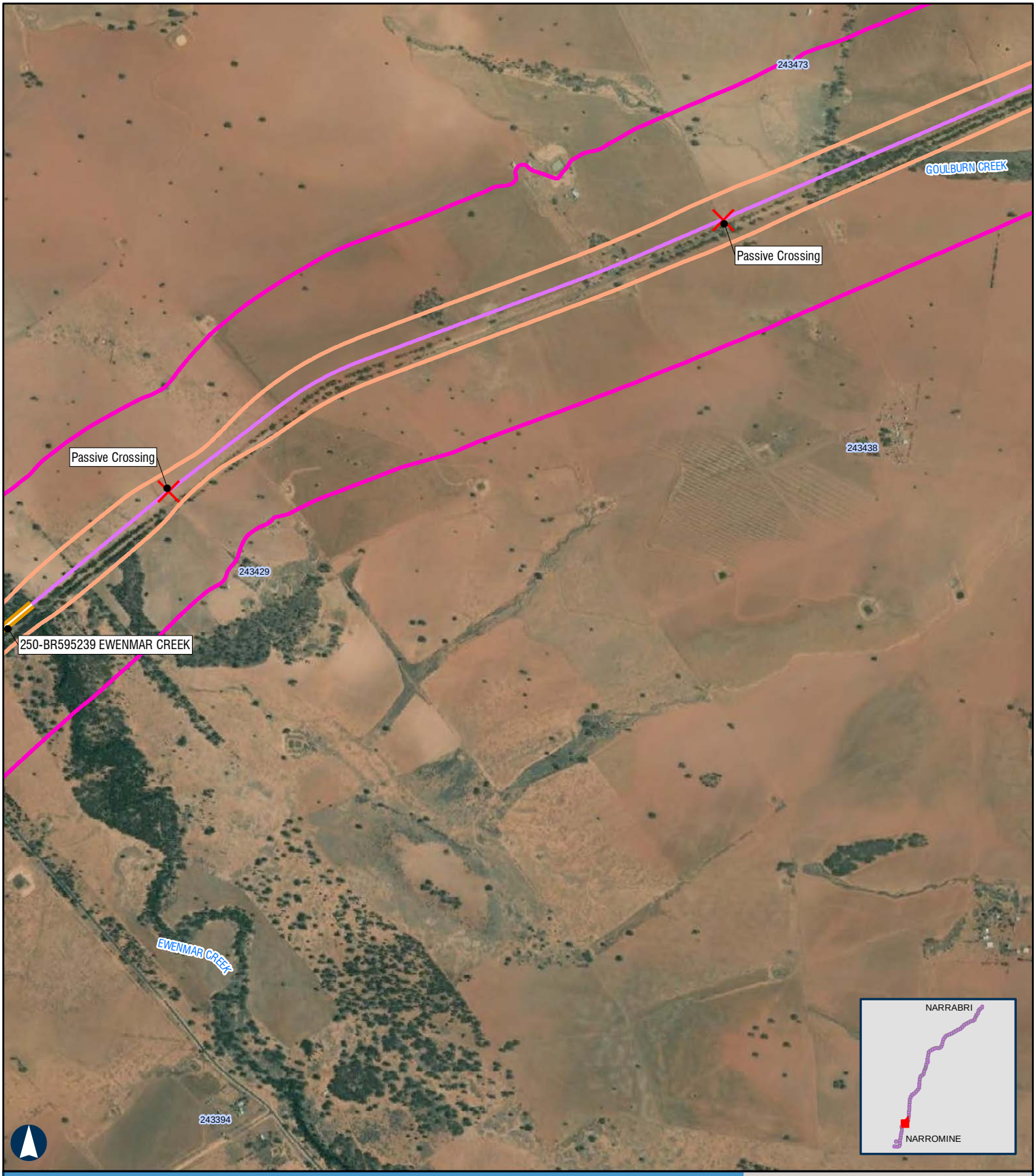
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 13 of 148

500 m

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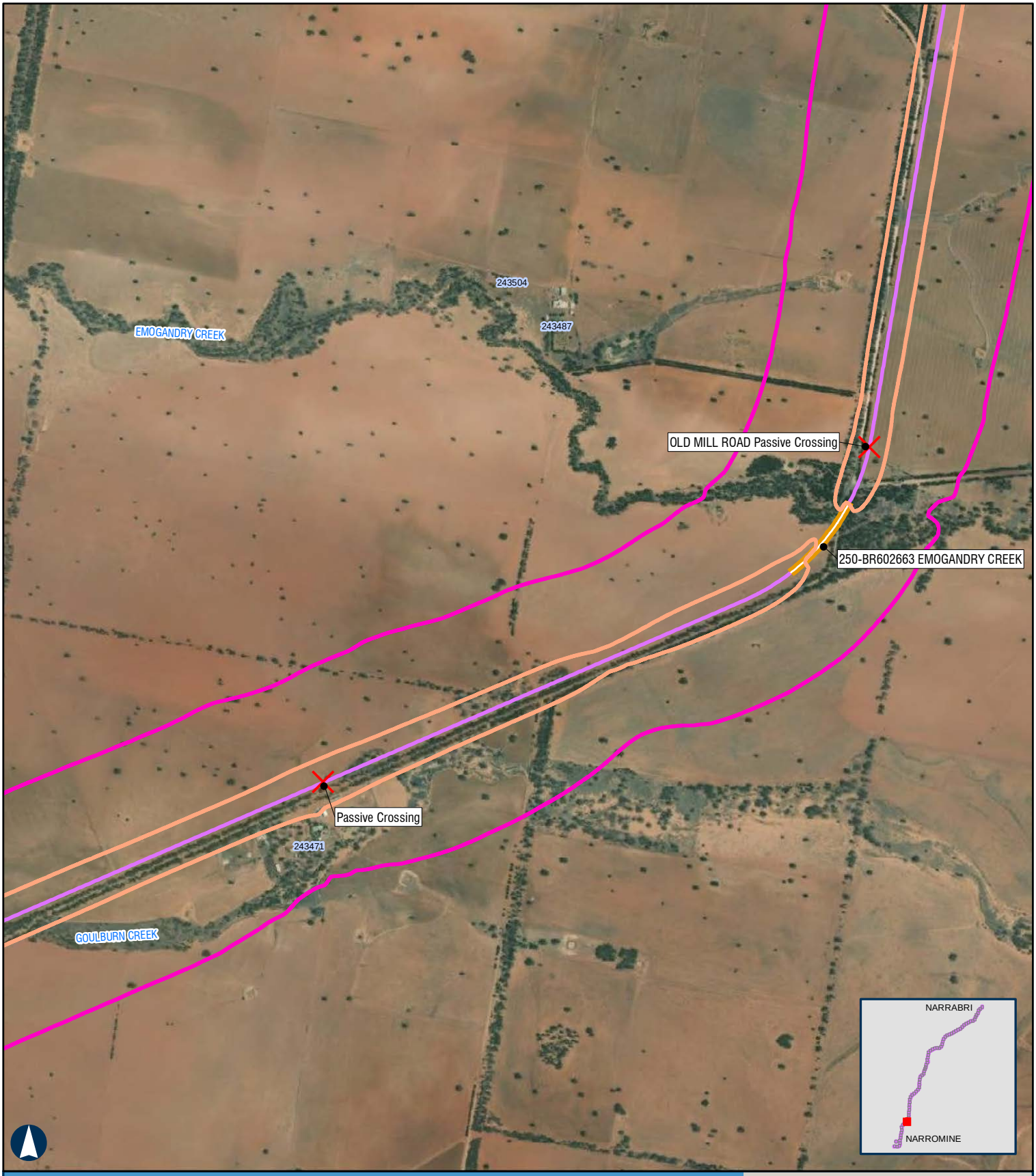
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 14 of 148

500 m

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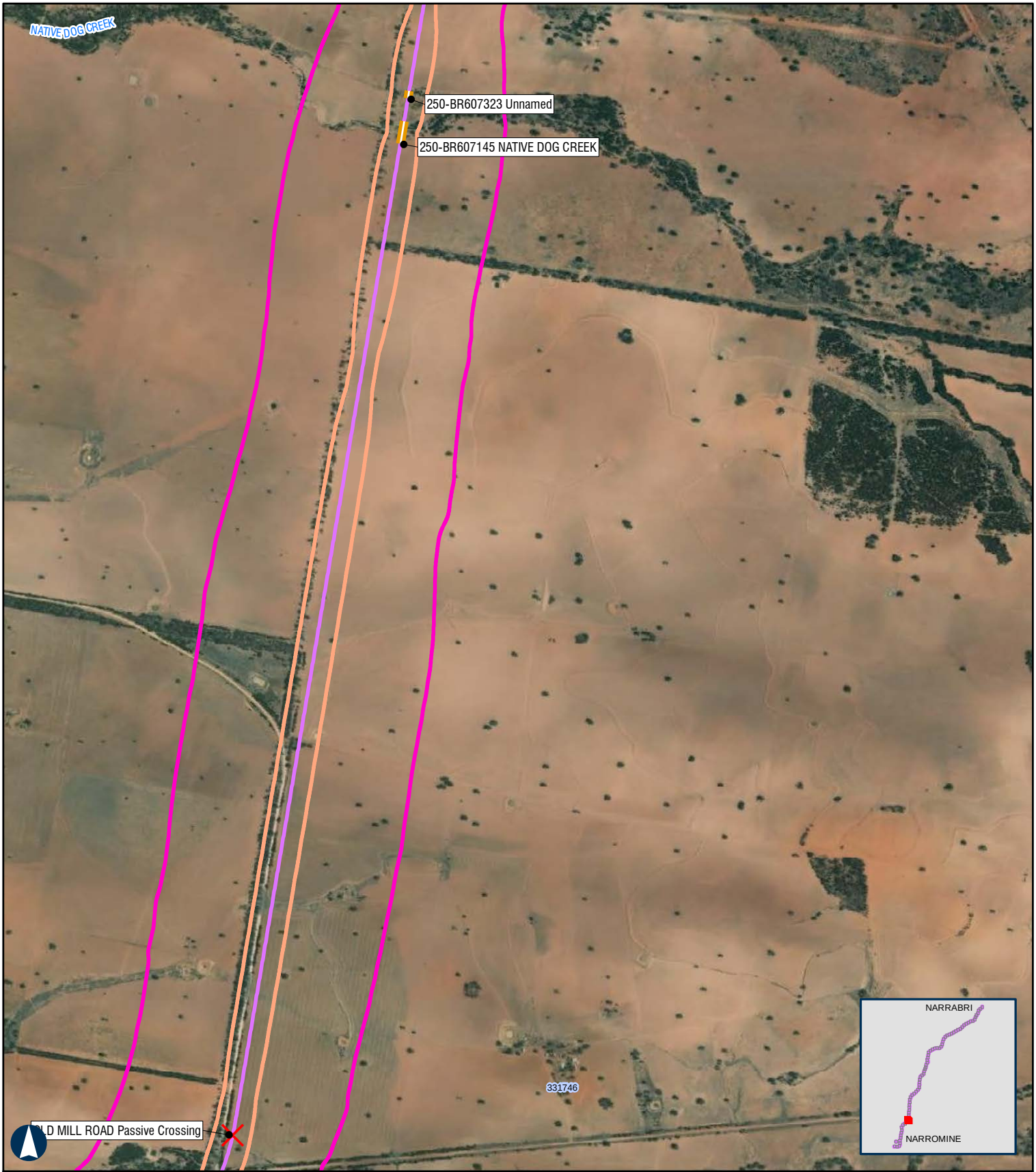
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Noise contours are based on a set distance above the local terrain level of 2.4m.

ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
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- Crossing Loops
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- Bridges and Viaducts
- Sensitive Receivers
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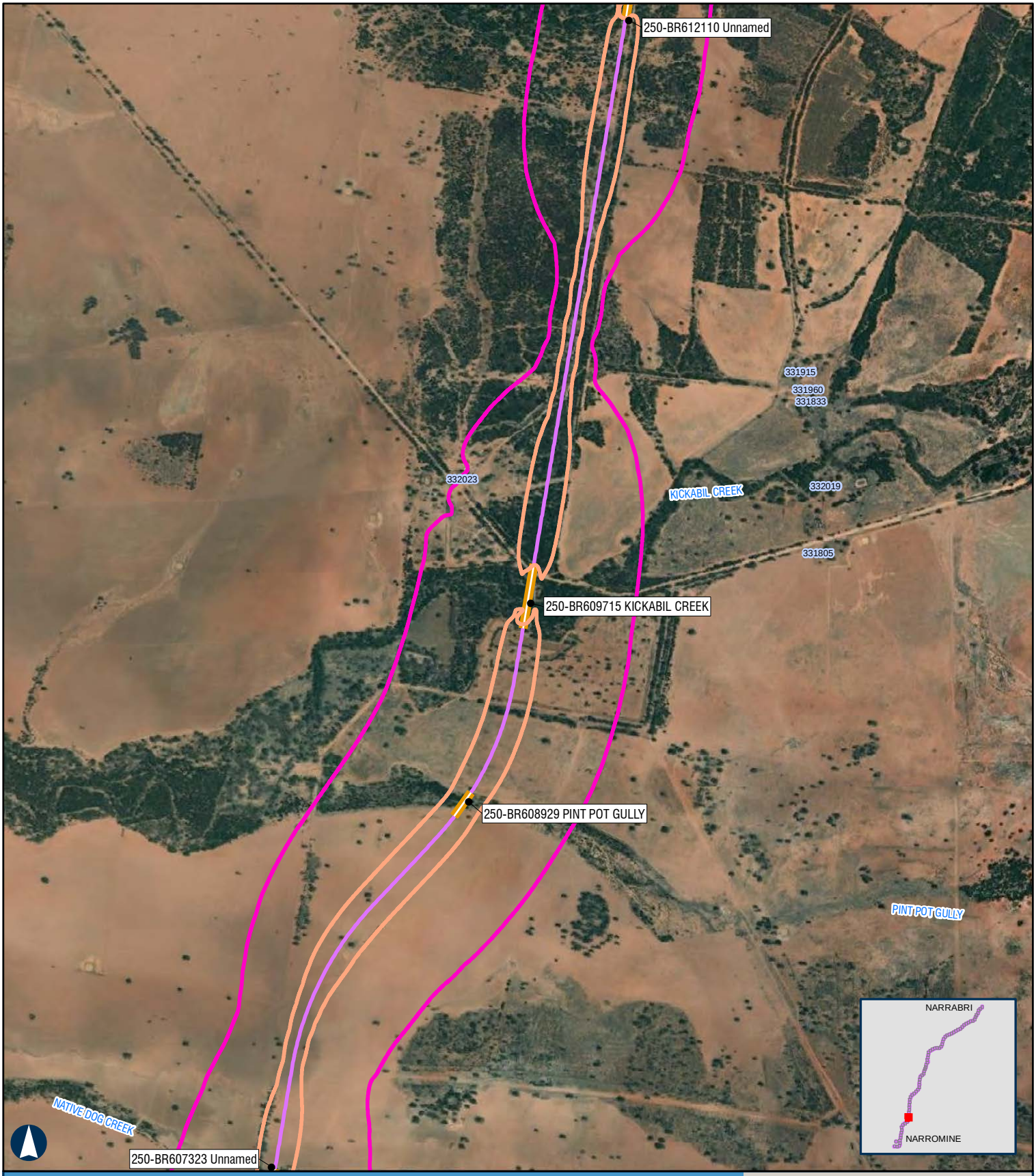
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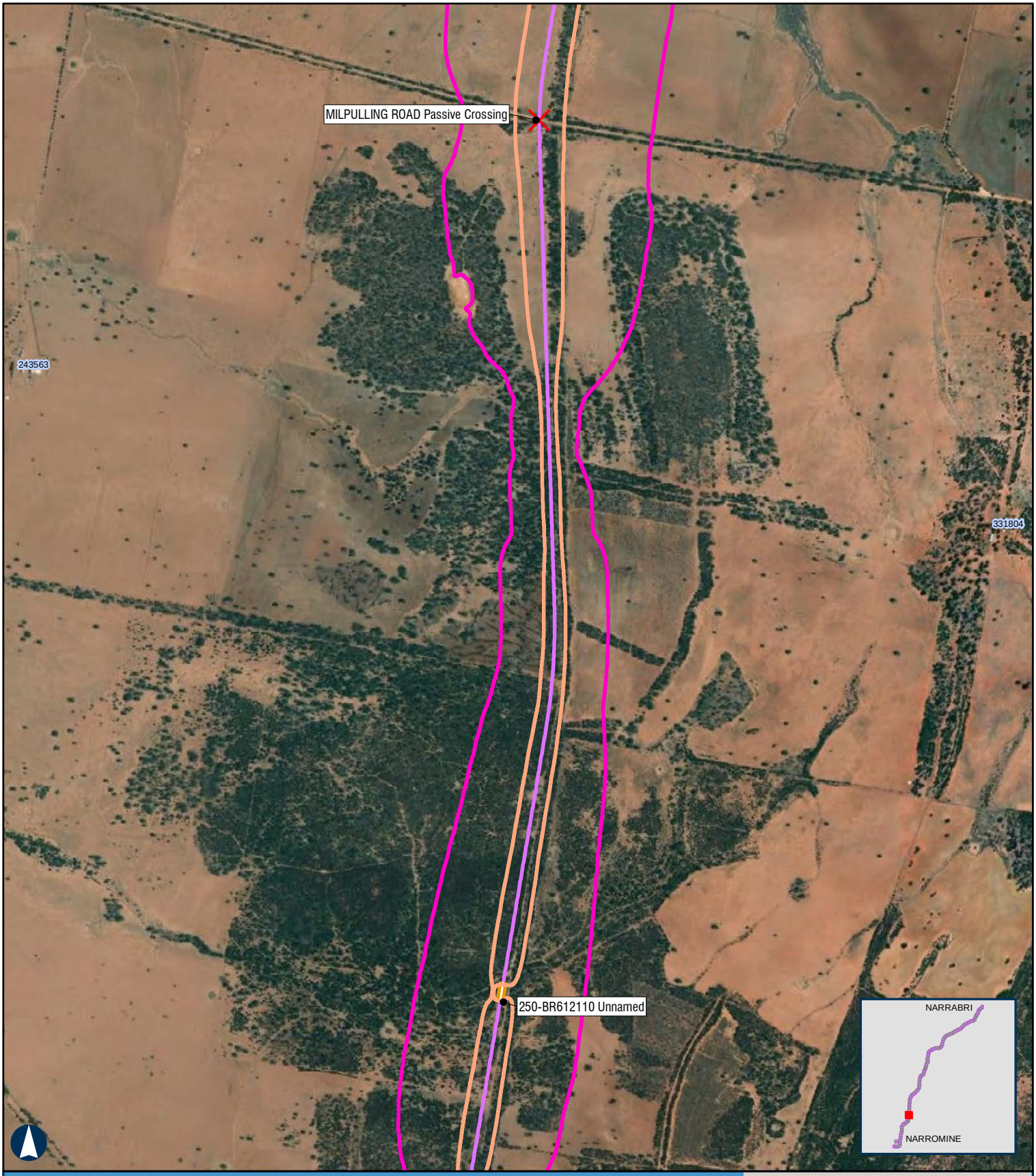
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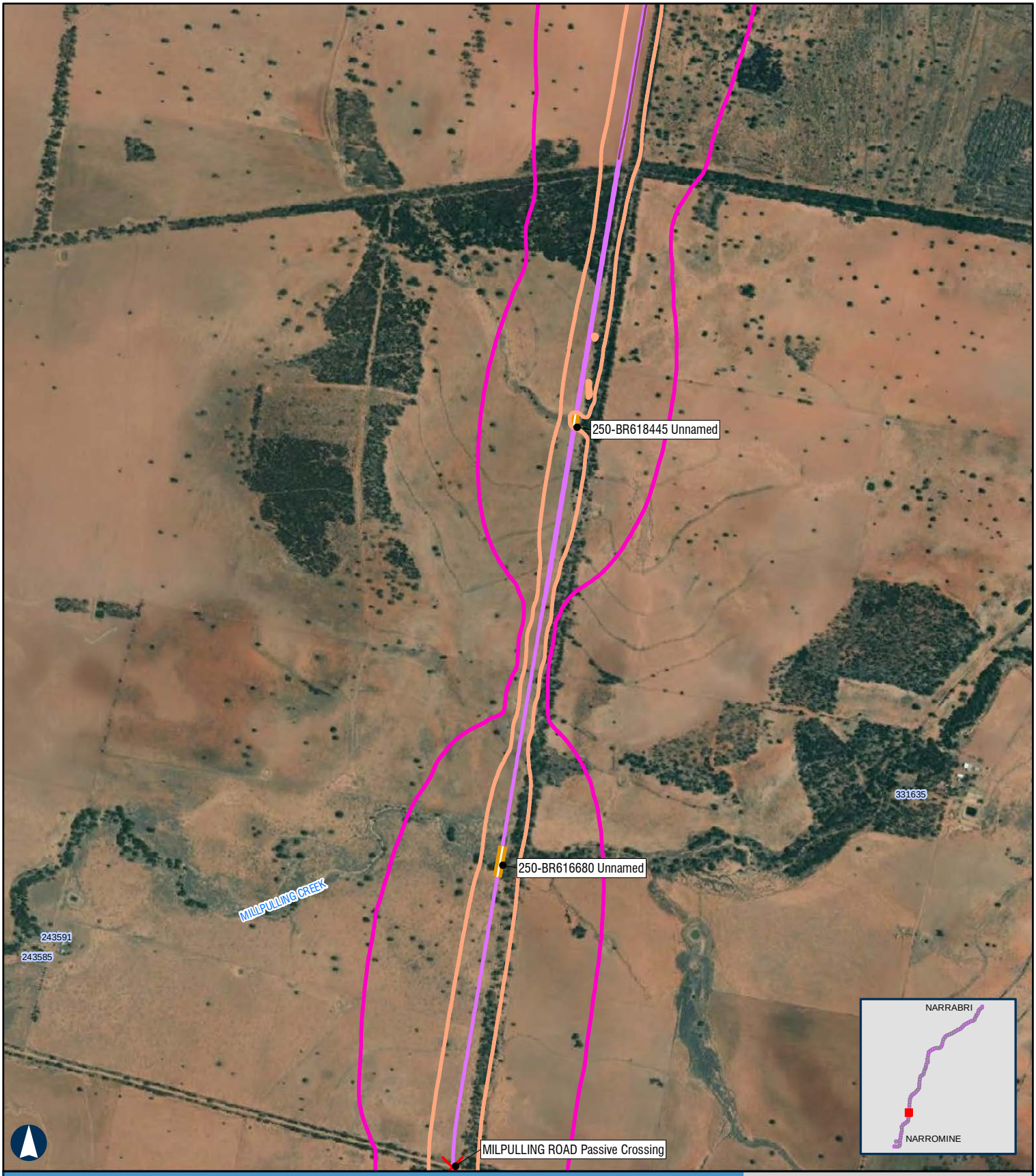
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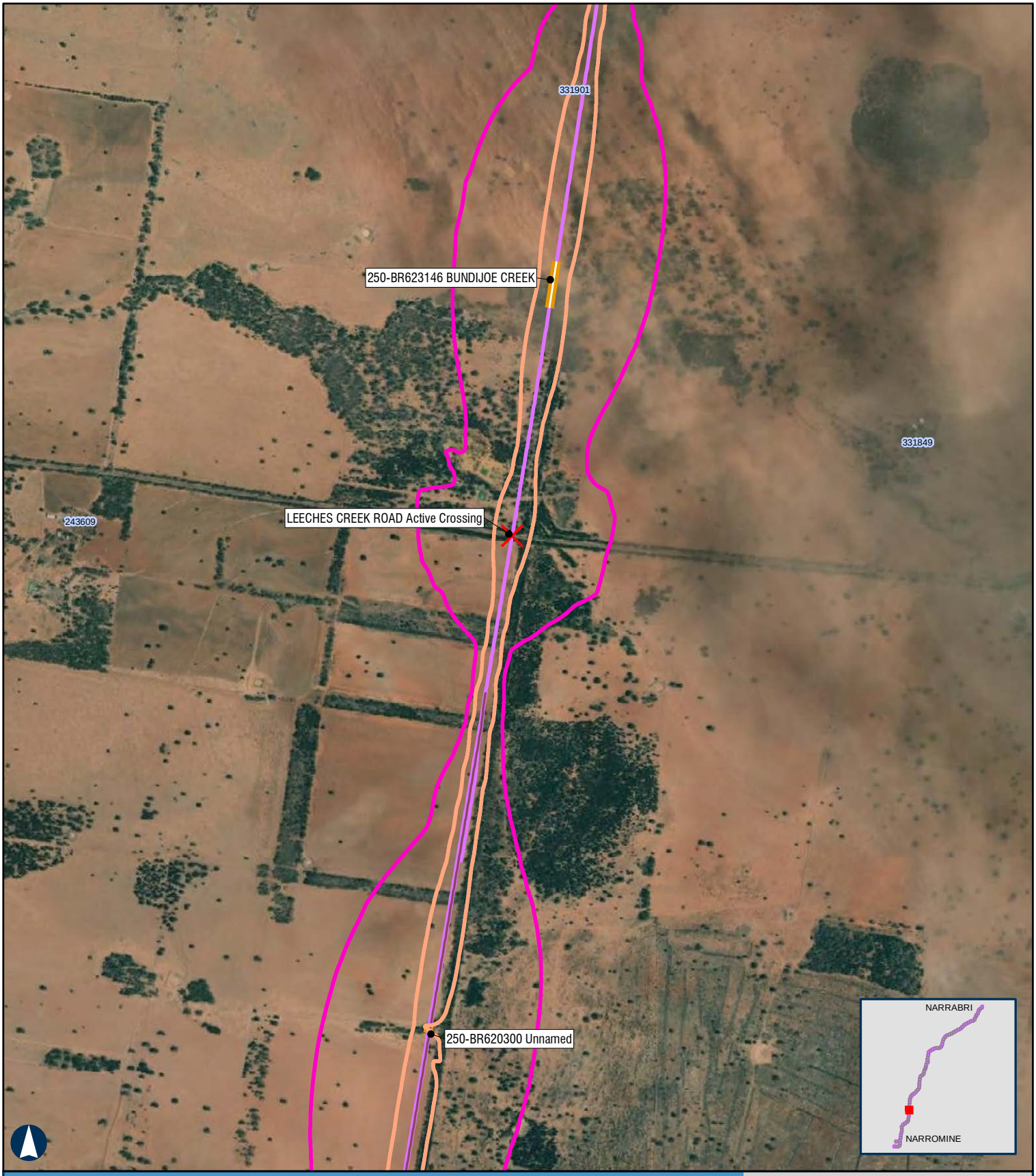
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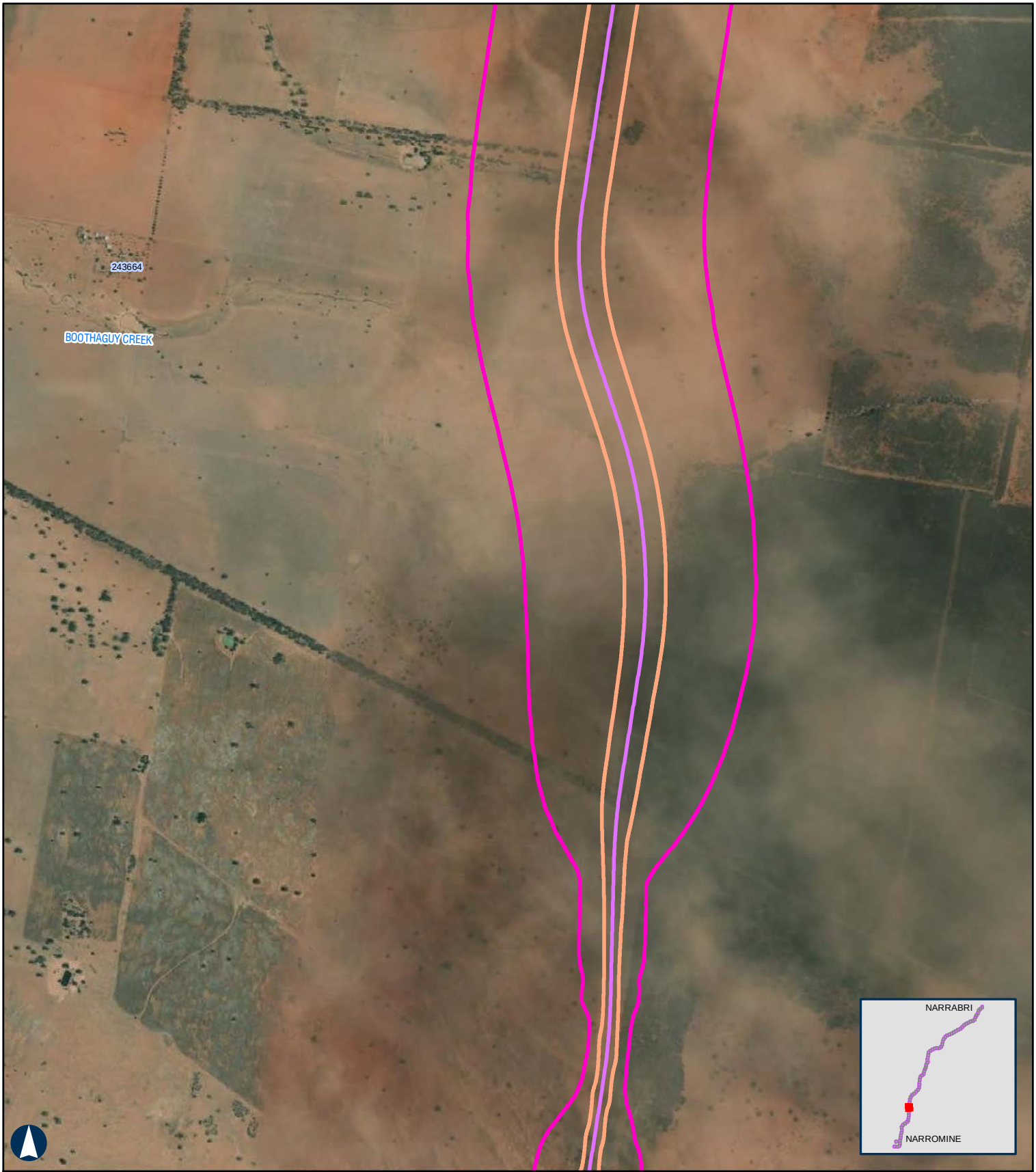
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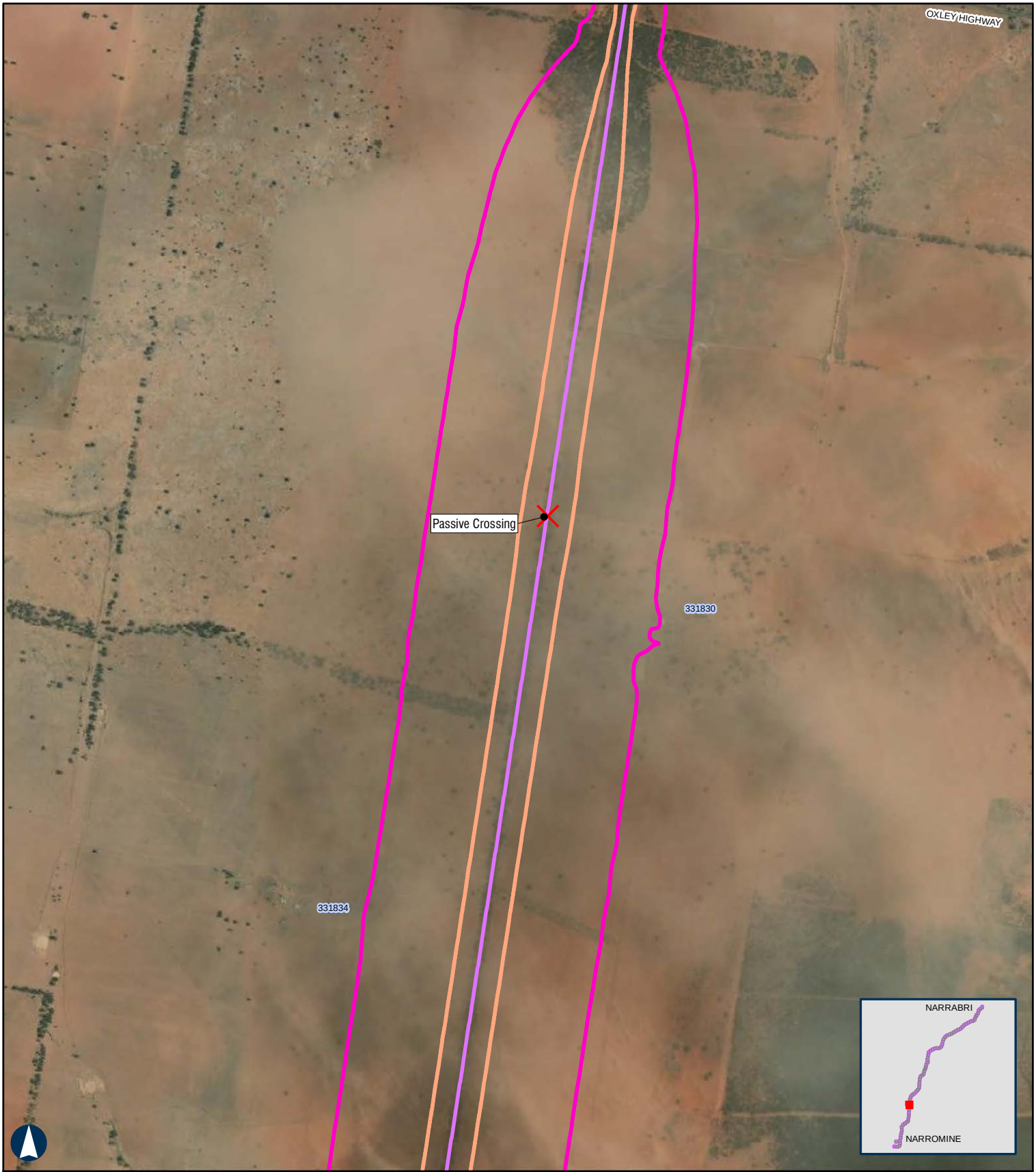
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 21 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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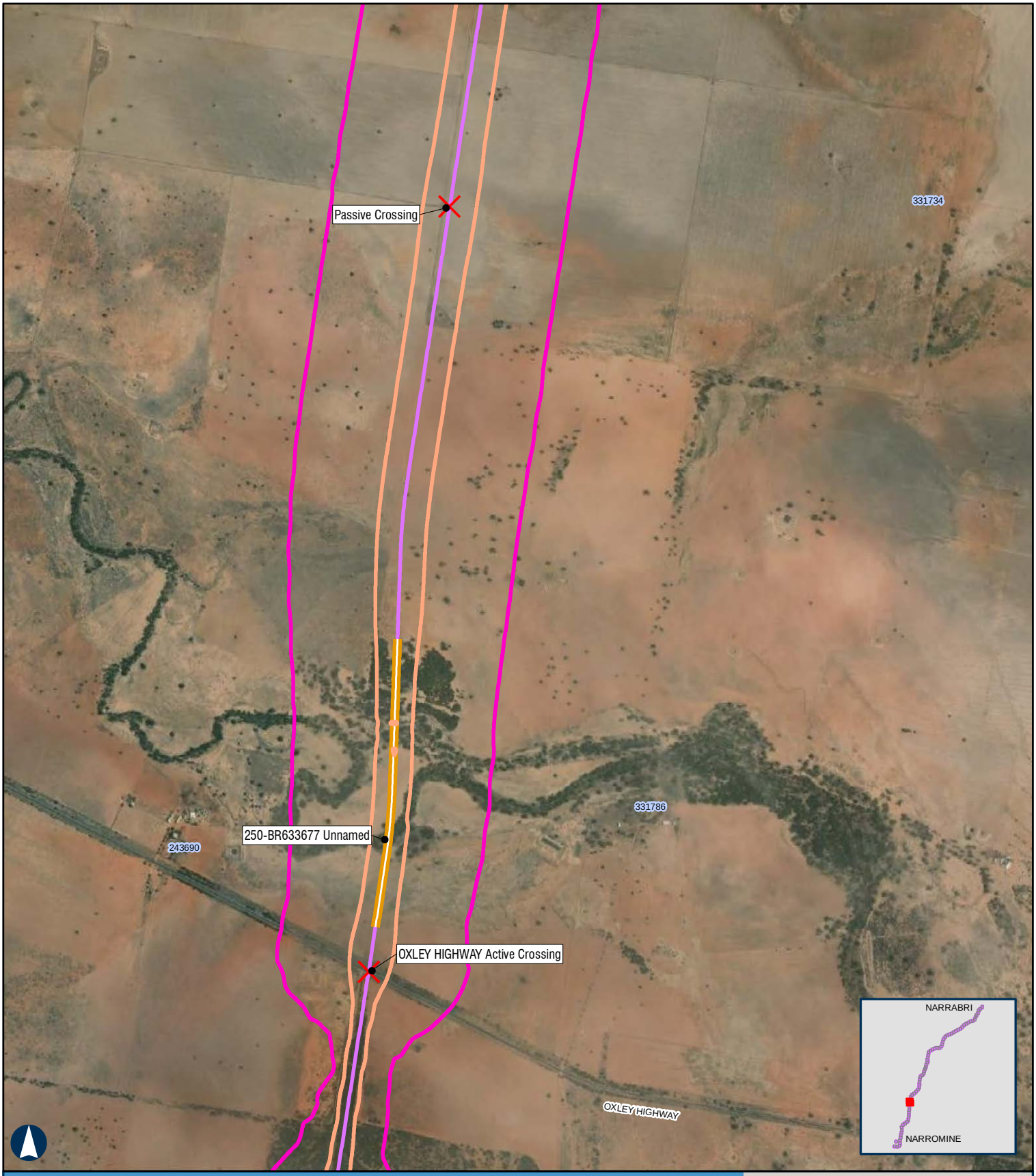
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 22 of 148

500 m

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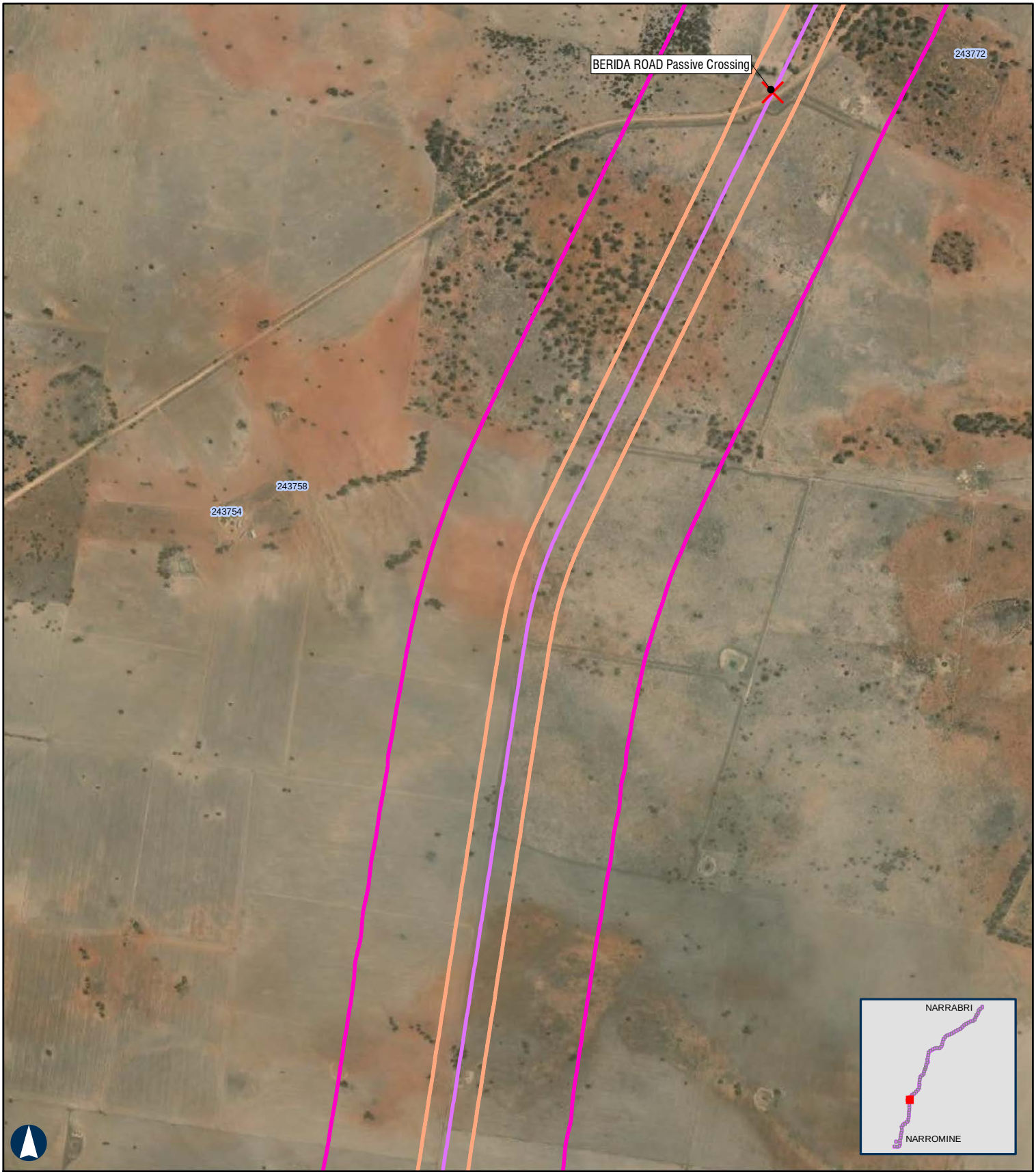
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 23 of 148

500 m

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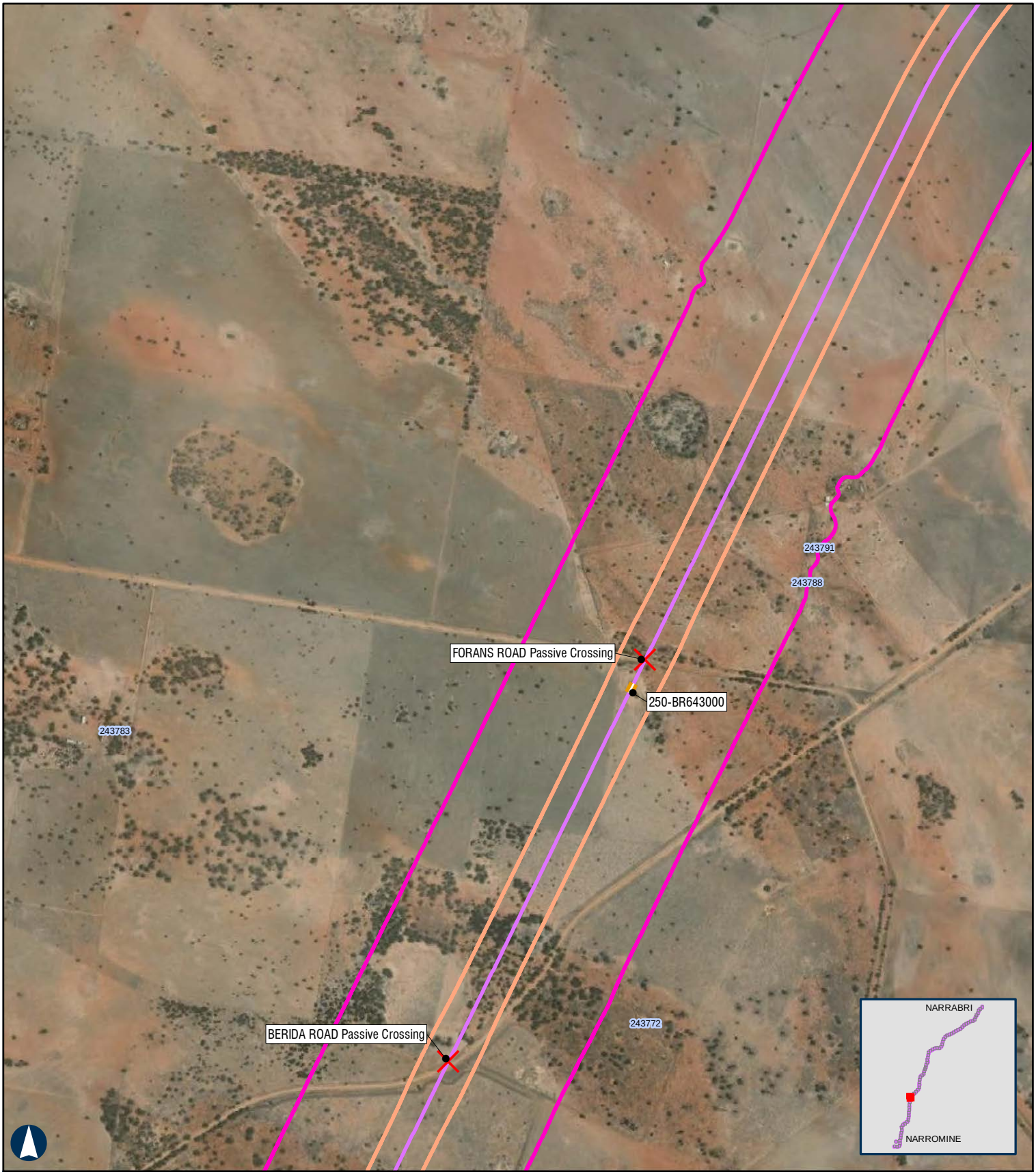
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 24 of 148

500 m

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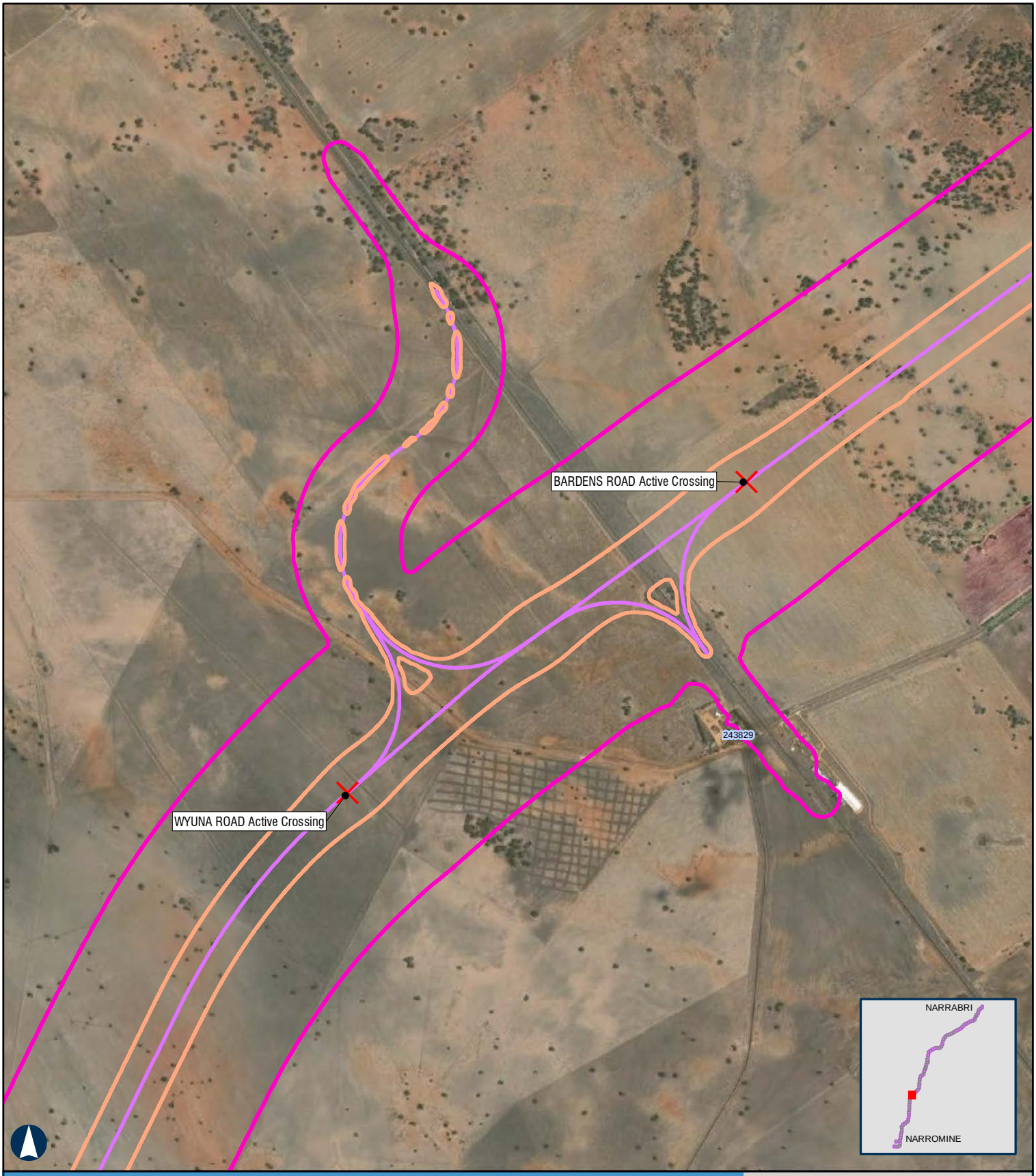
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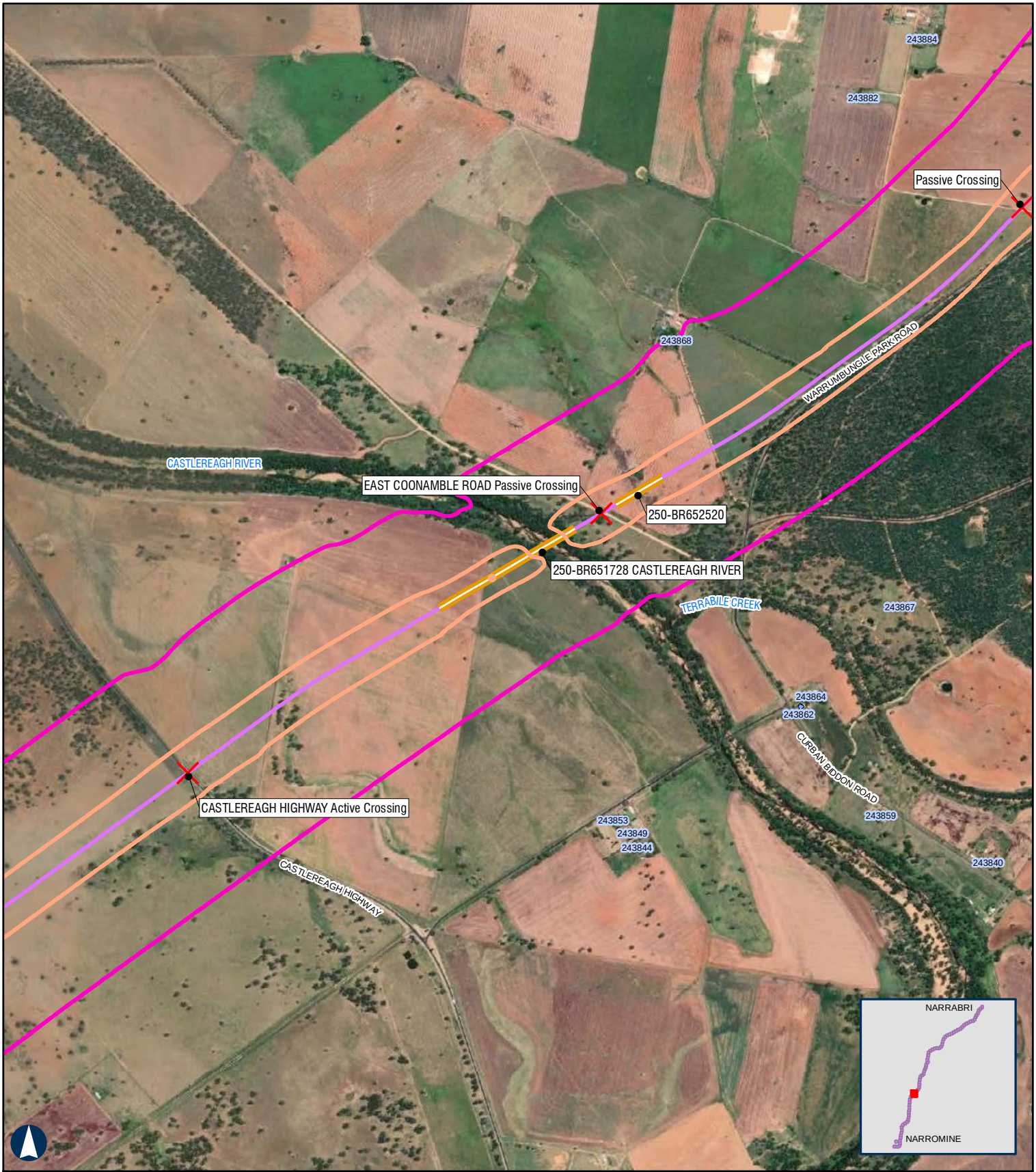
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 26 of 148

500 m

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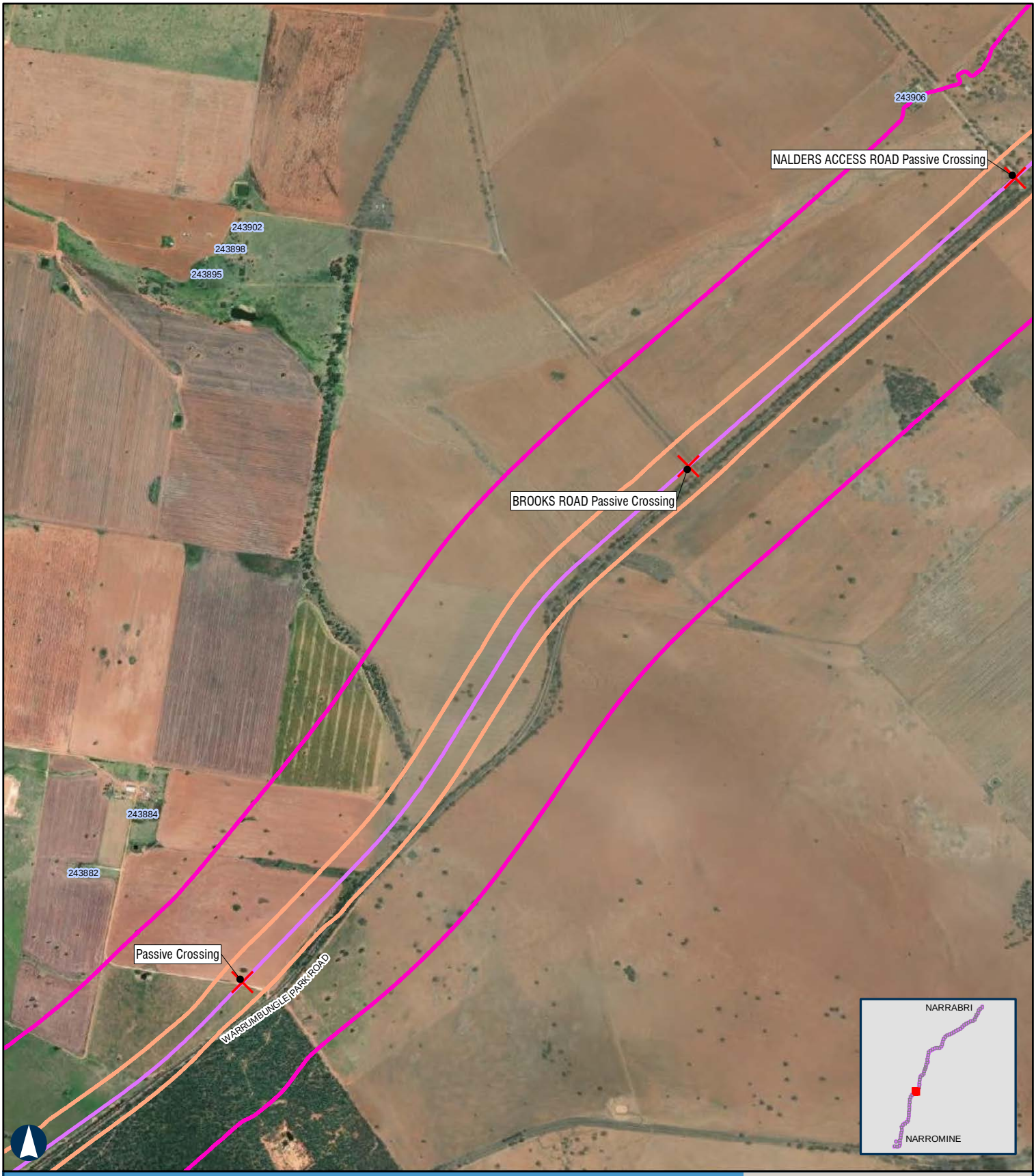
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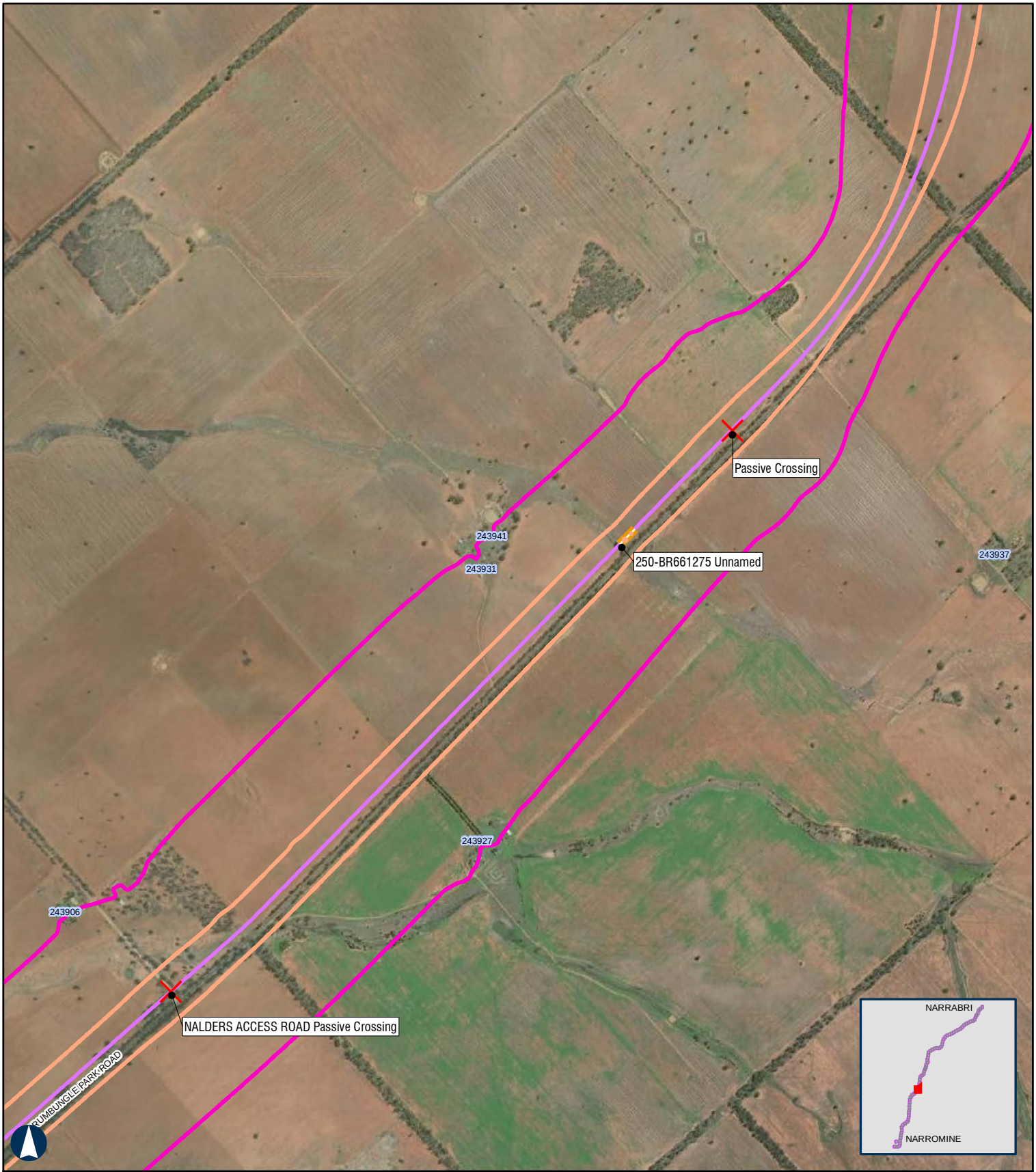
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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 28 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

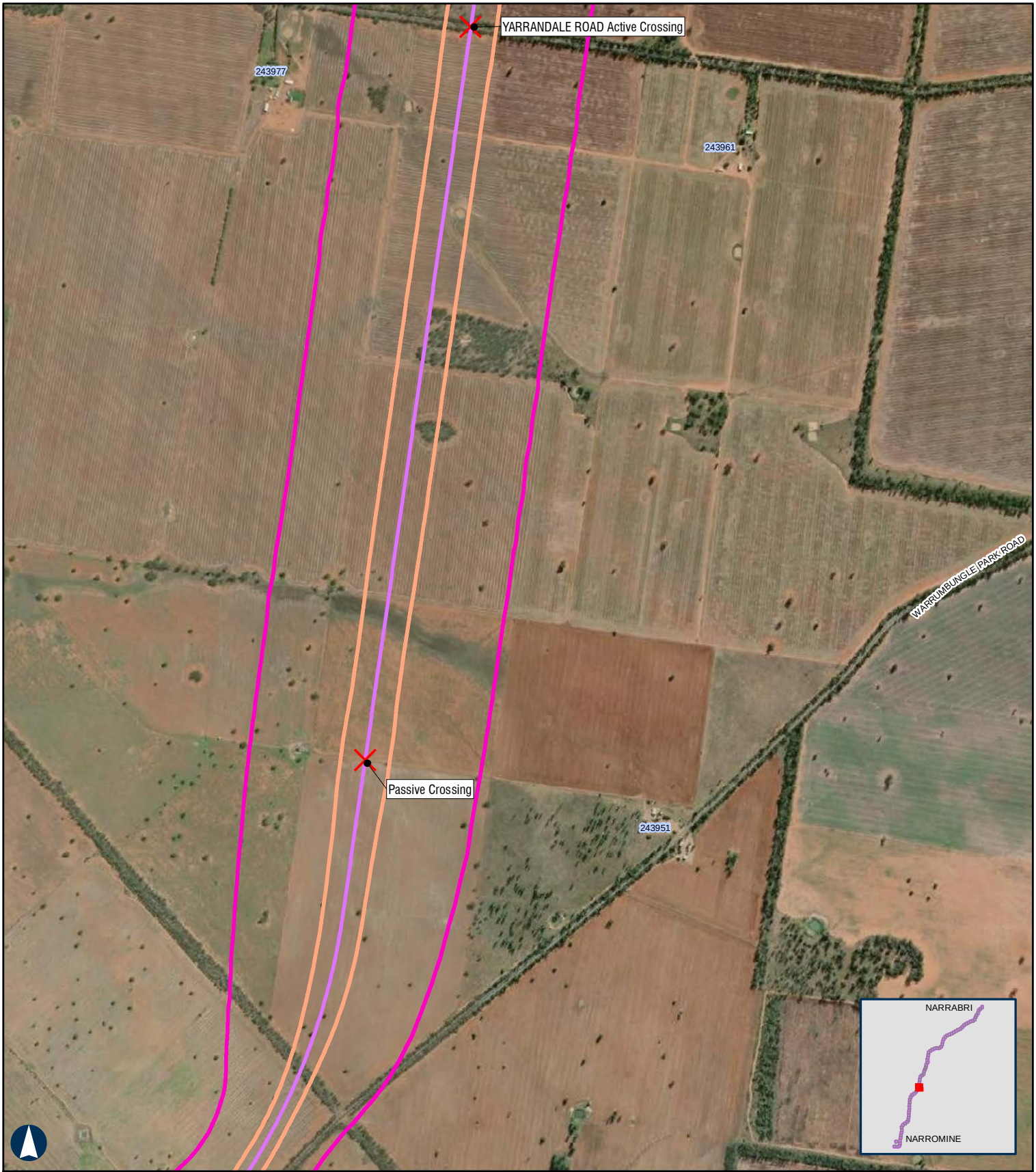
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 29 of 148

500 m

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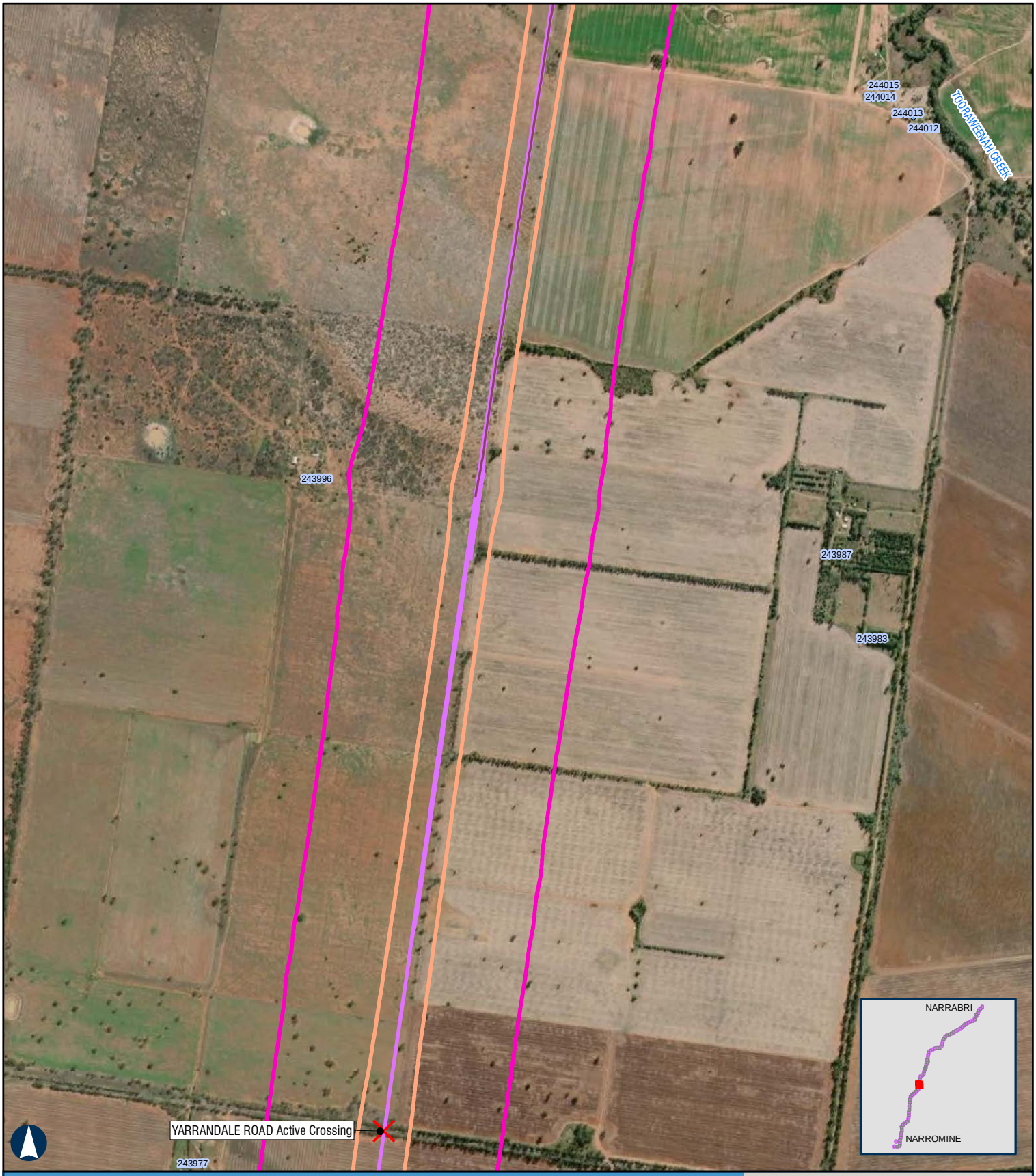
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 30 of 148

500 m

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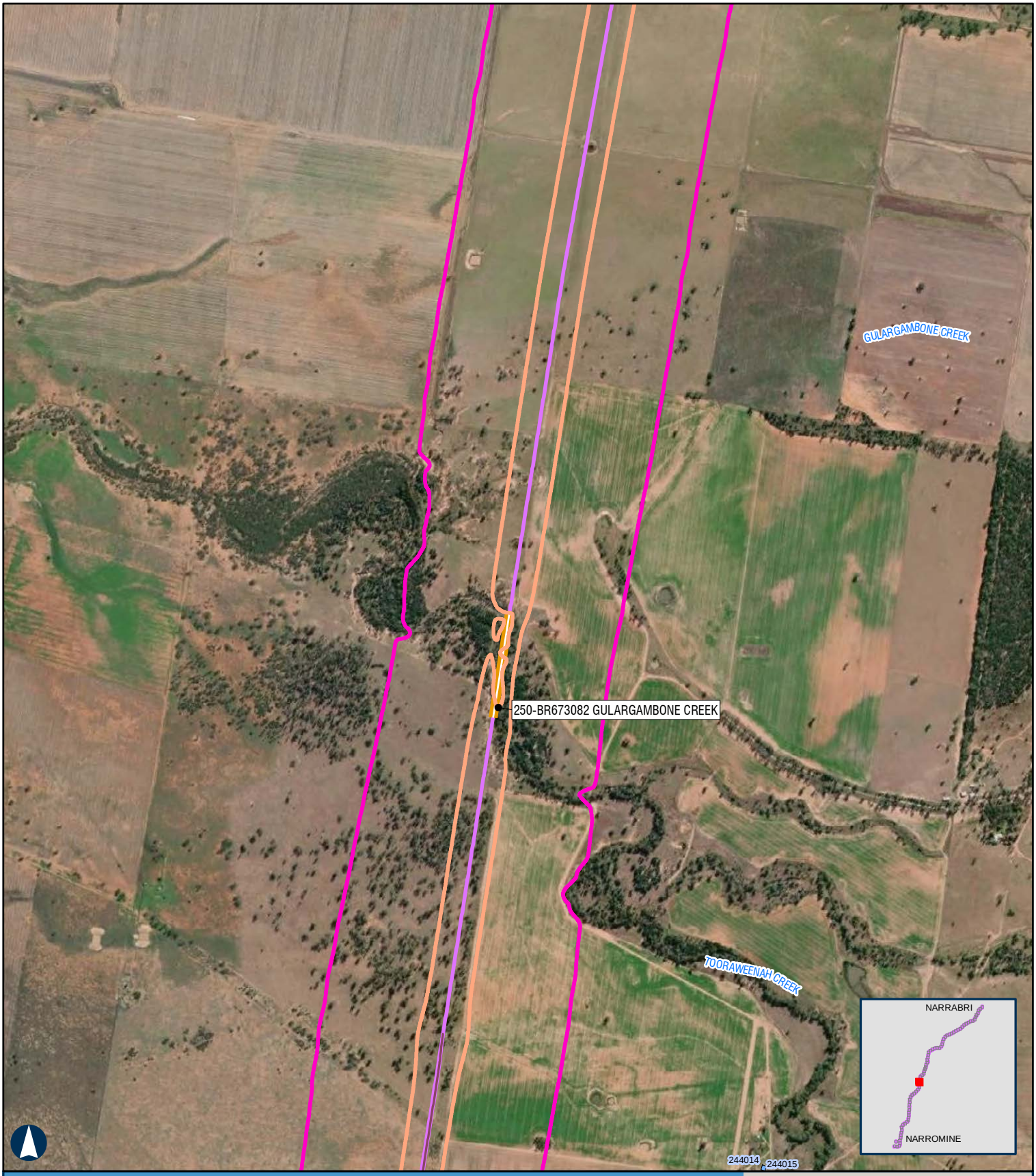
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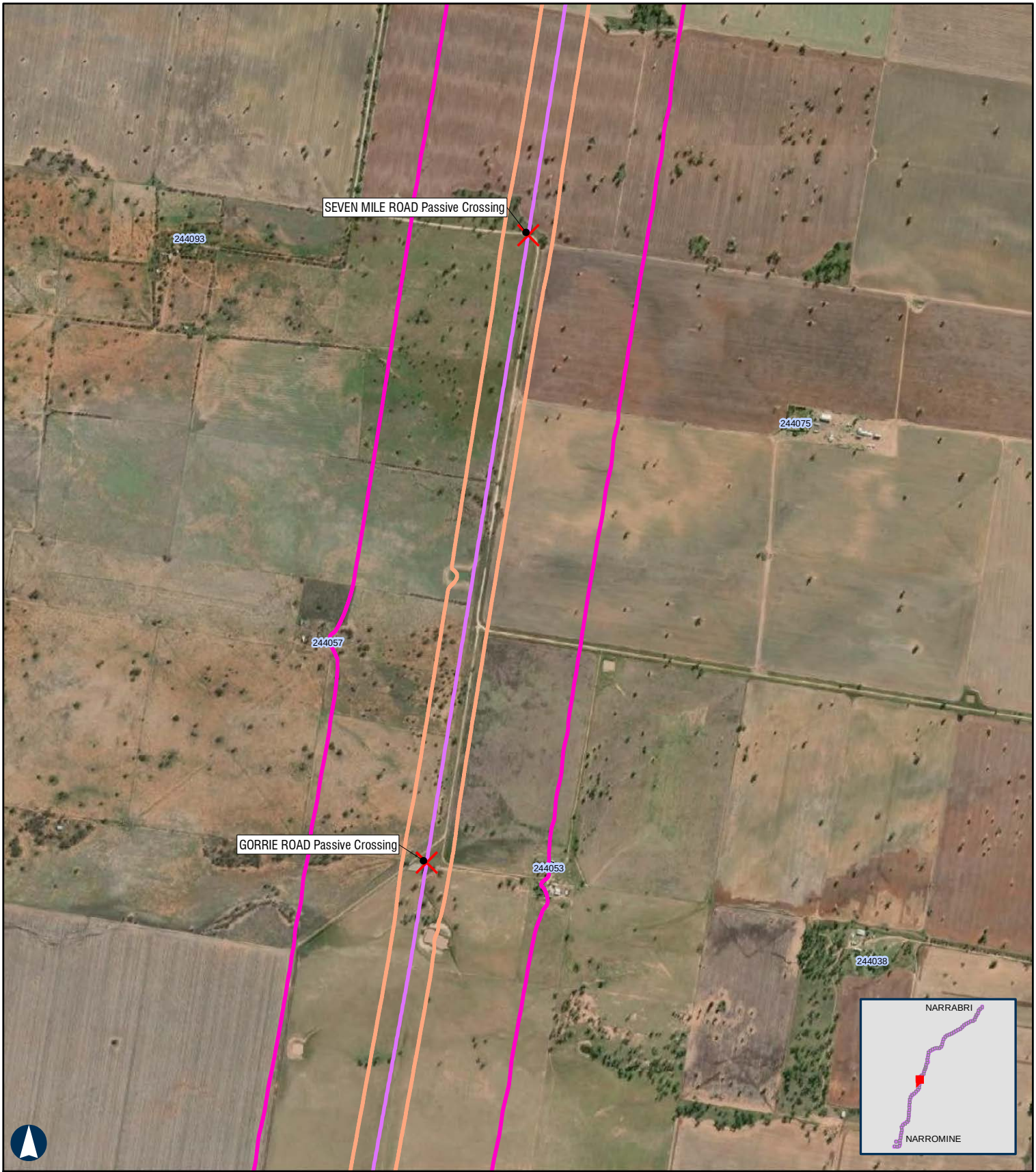
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 32 of 148

500 m

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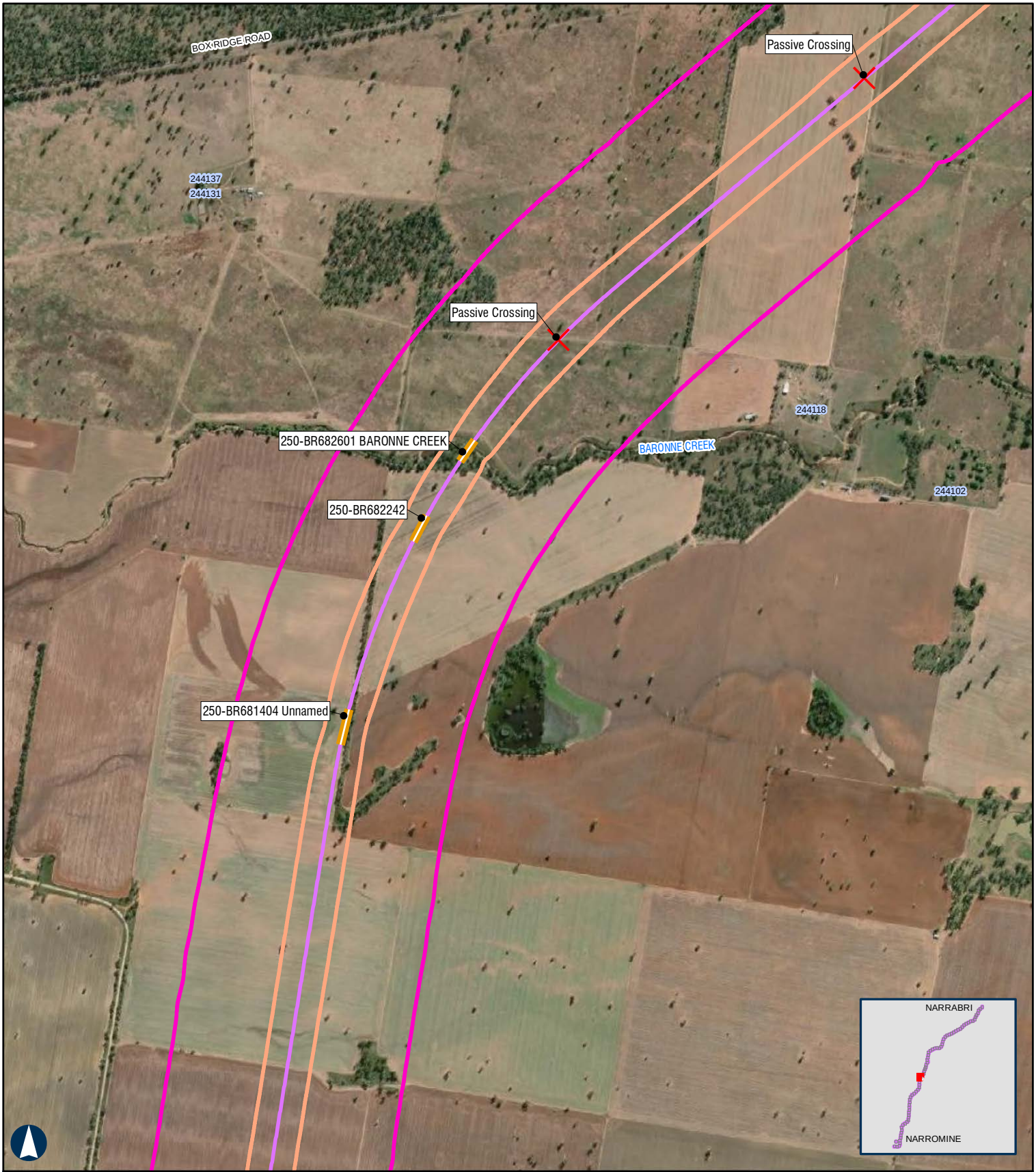
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 33 of 148

500 m

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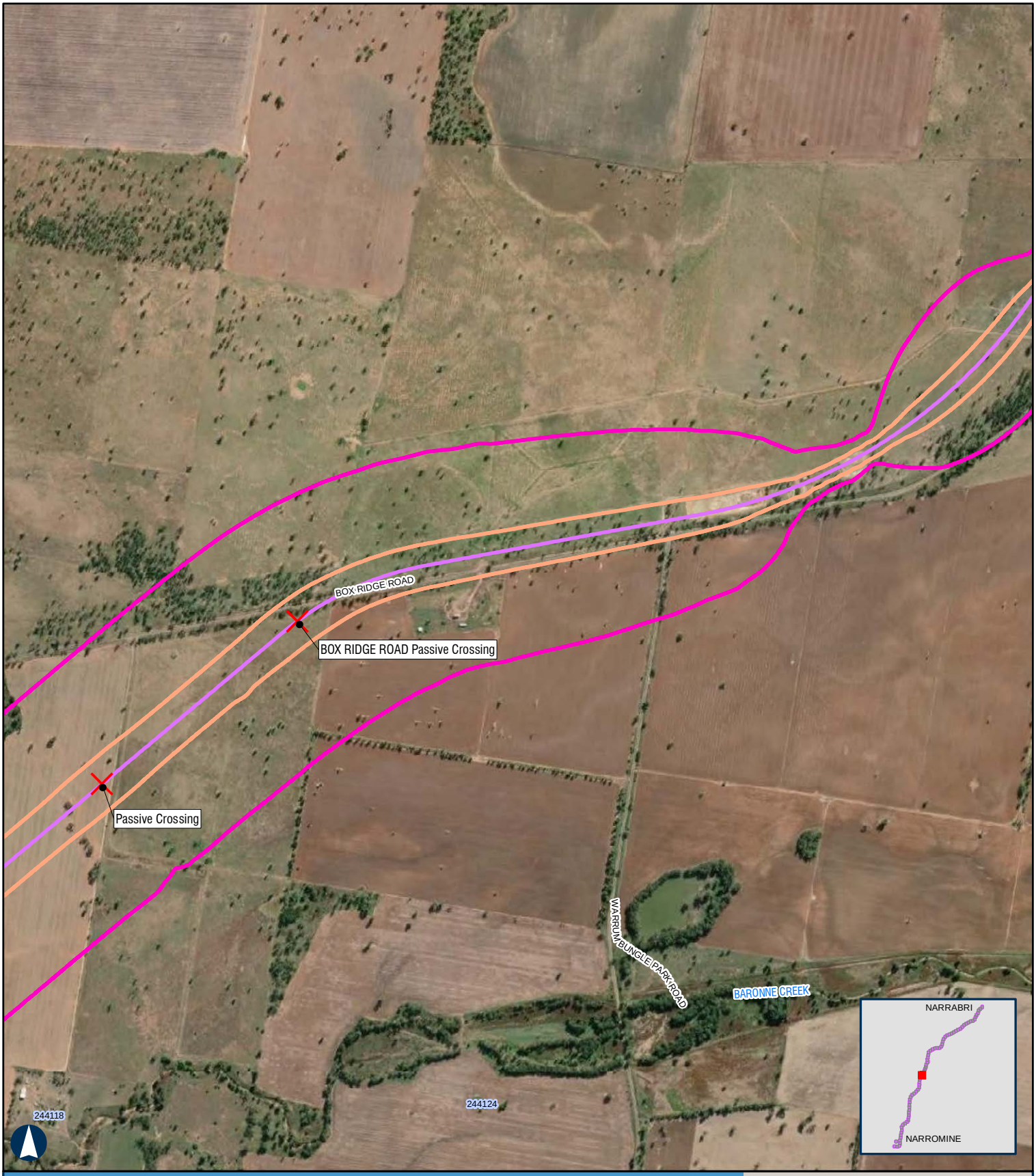
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 34 of 148

500 m

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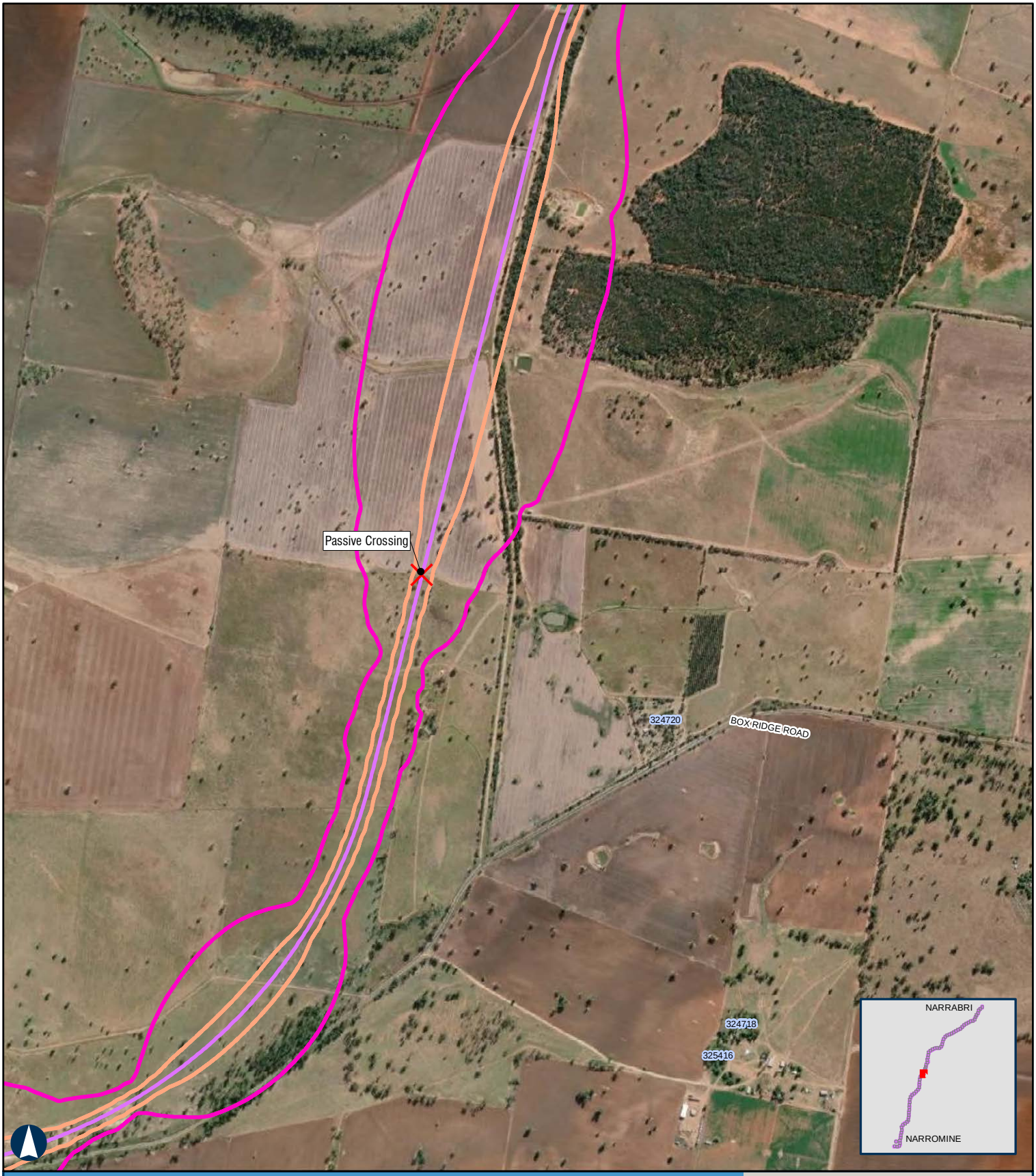
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 35 of 148

500 m

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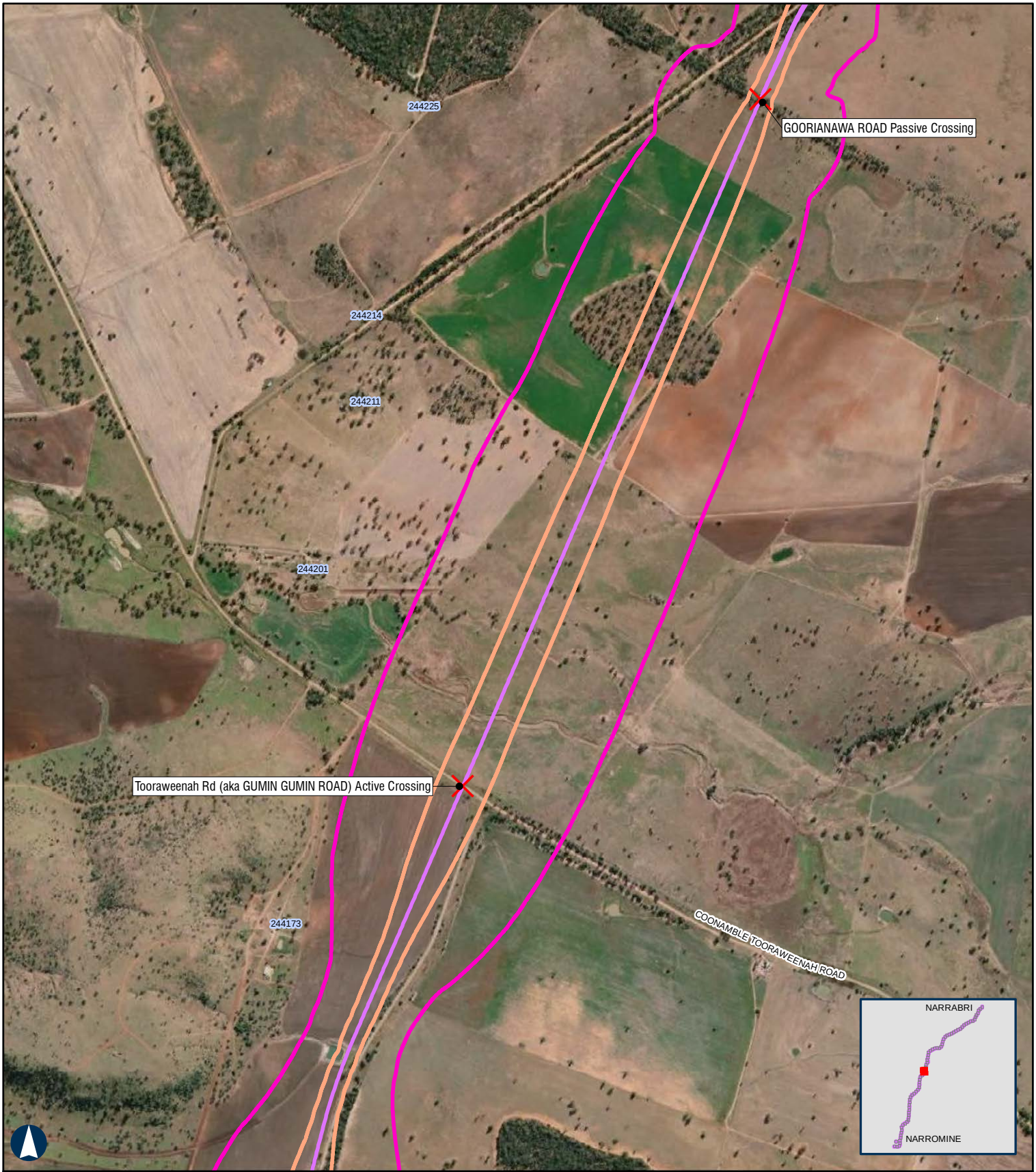
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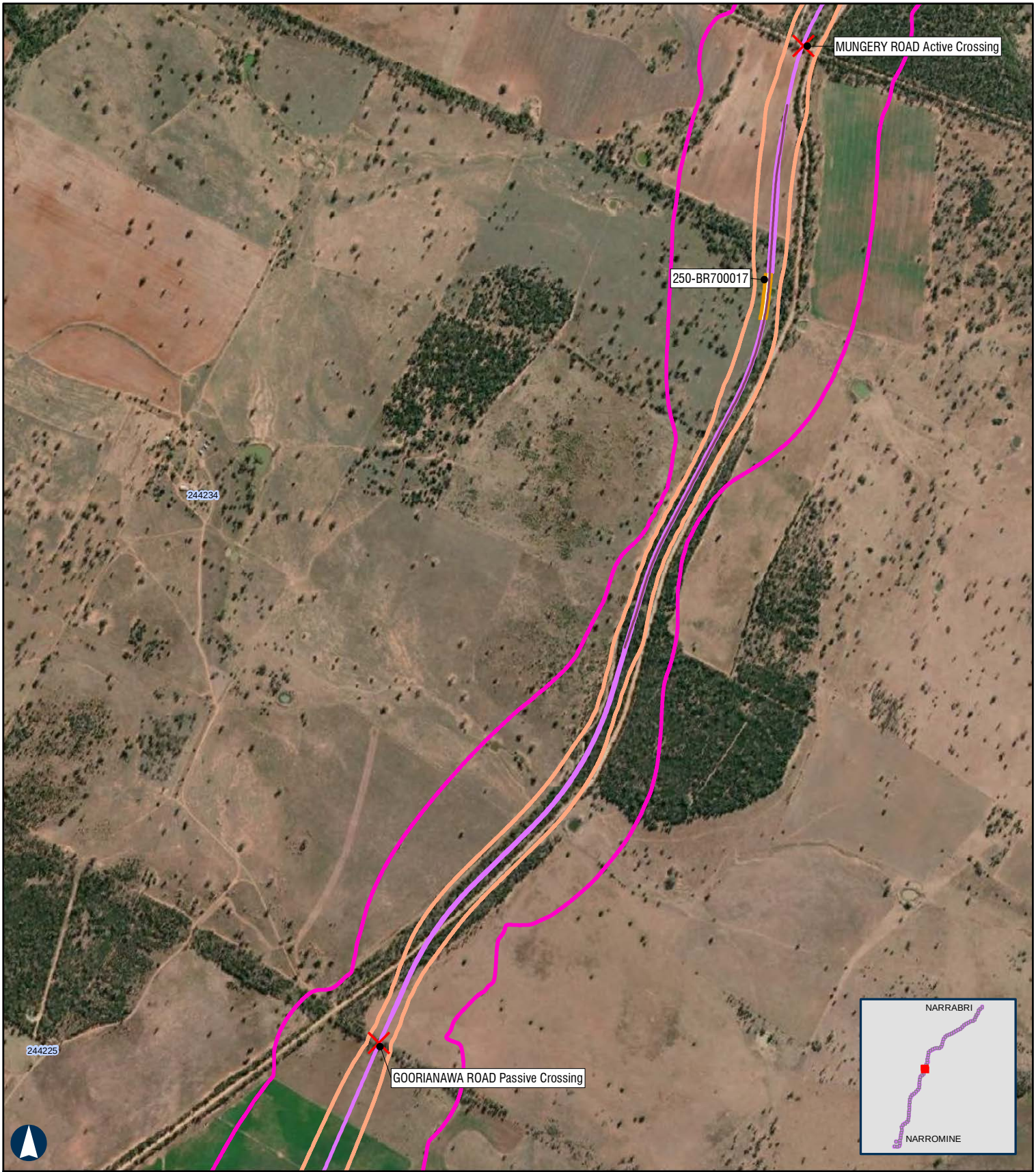
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 37 of 148

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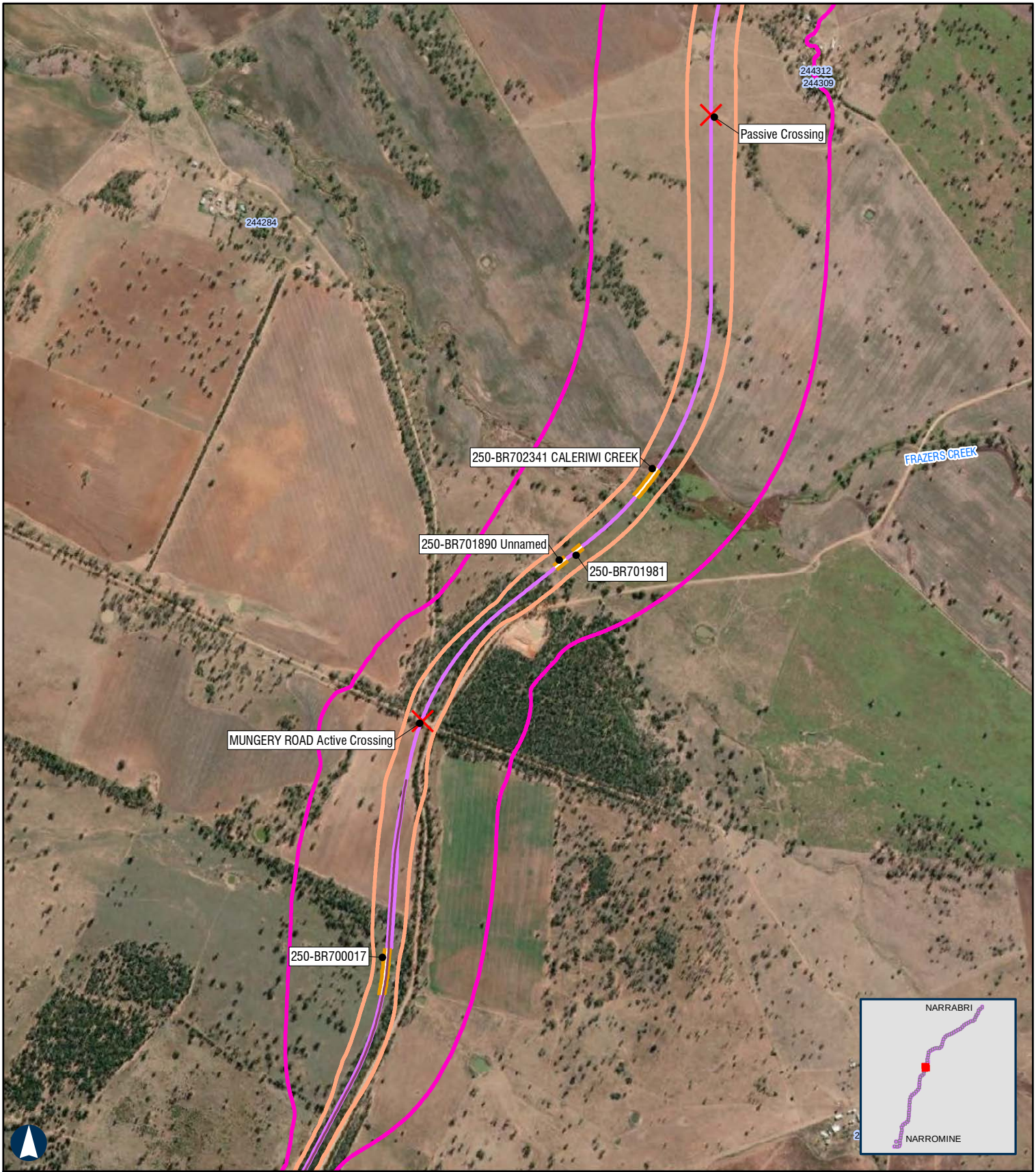
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 38 of 148

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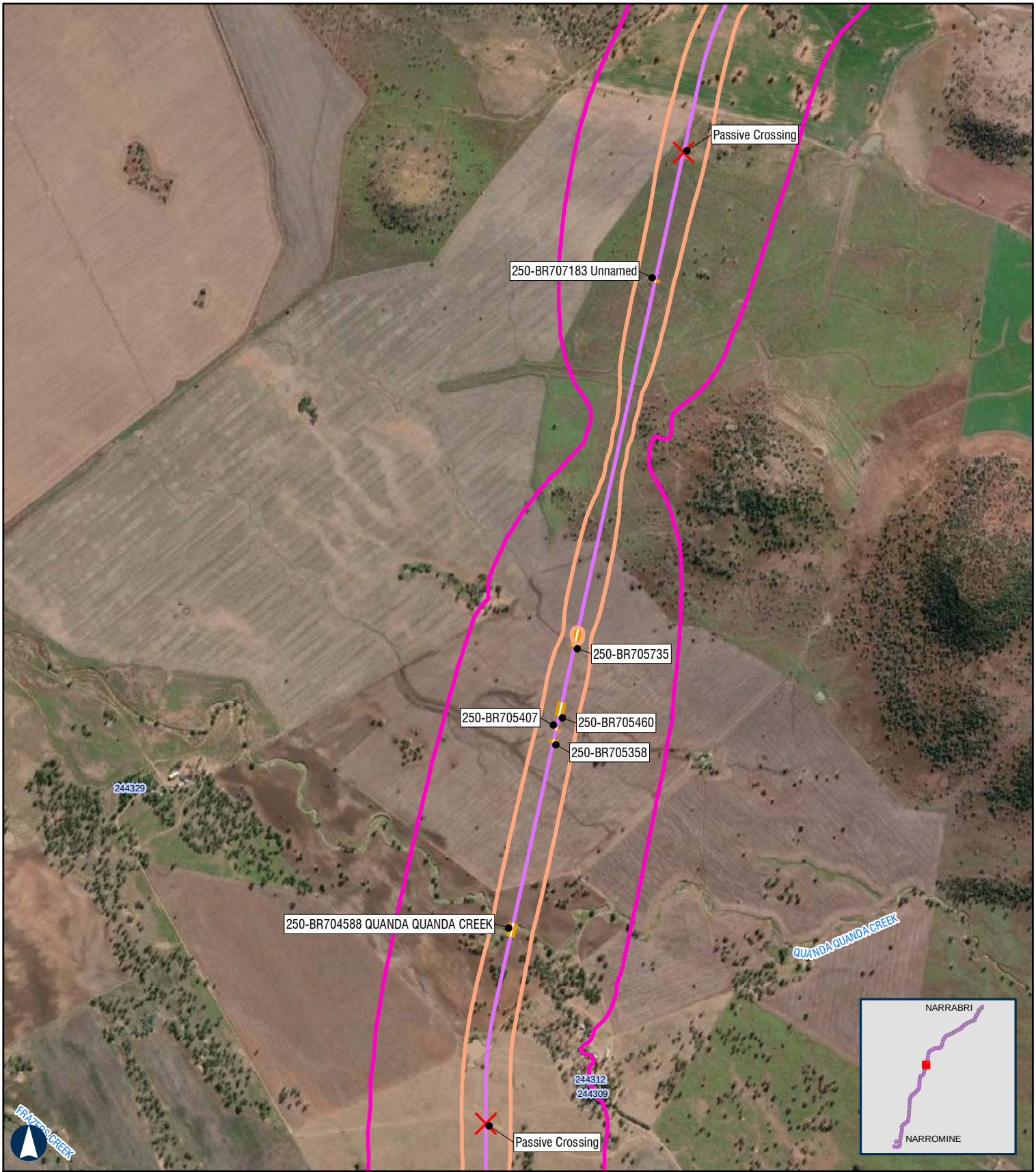
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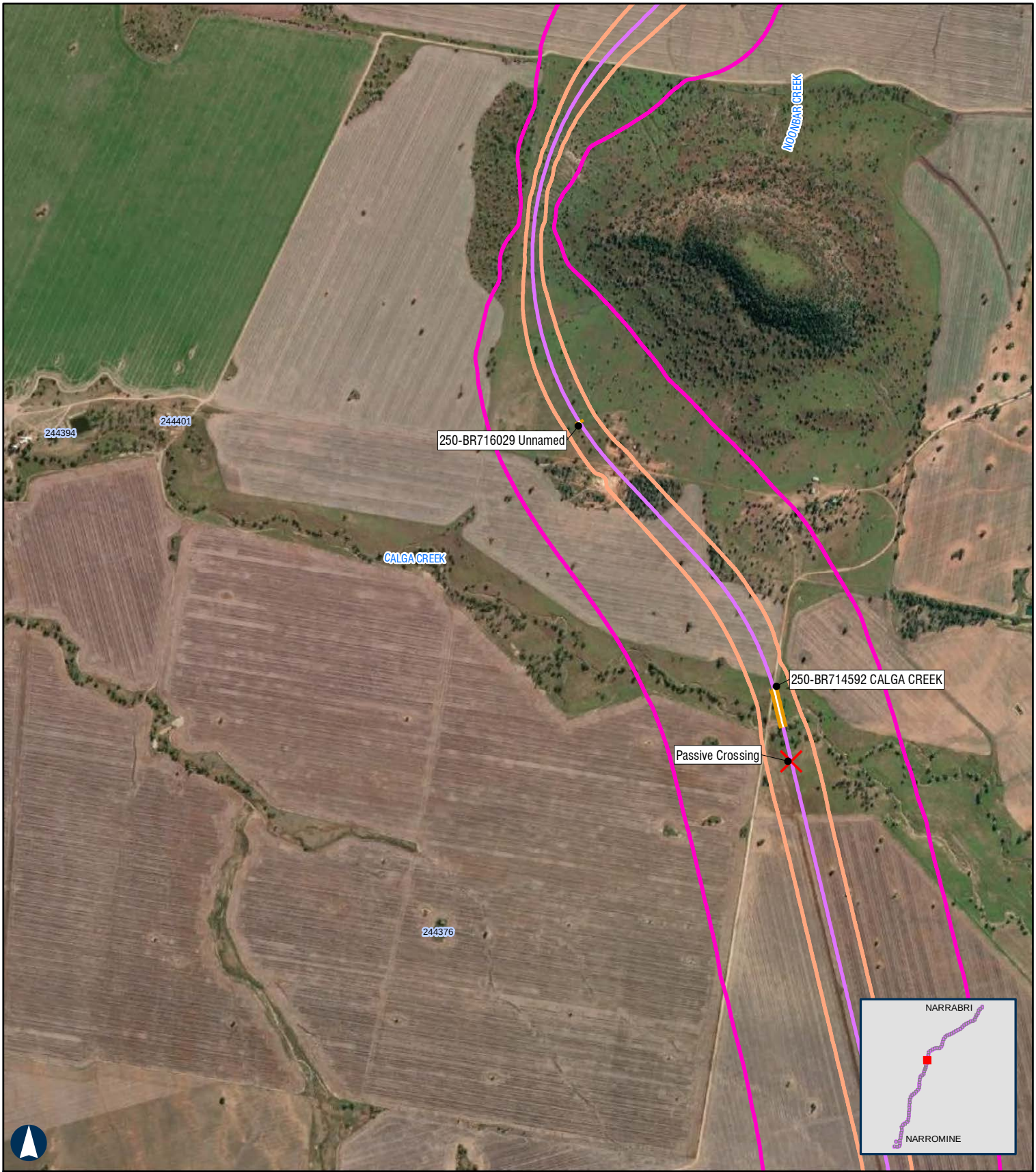
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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

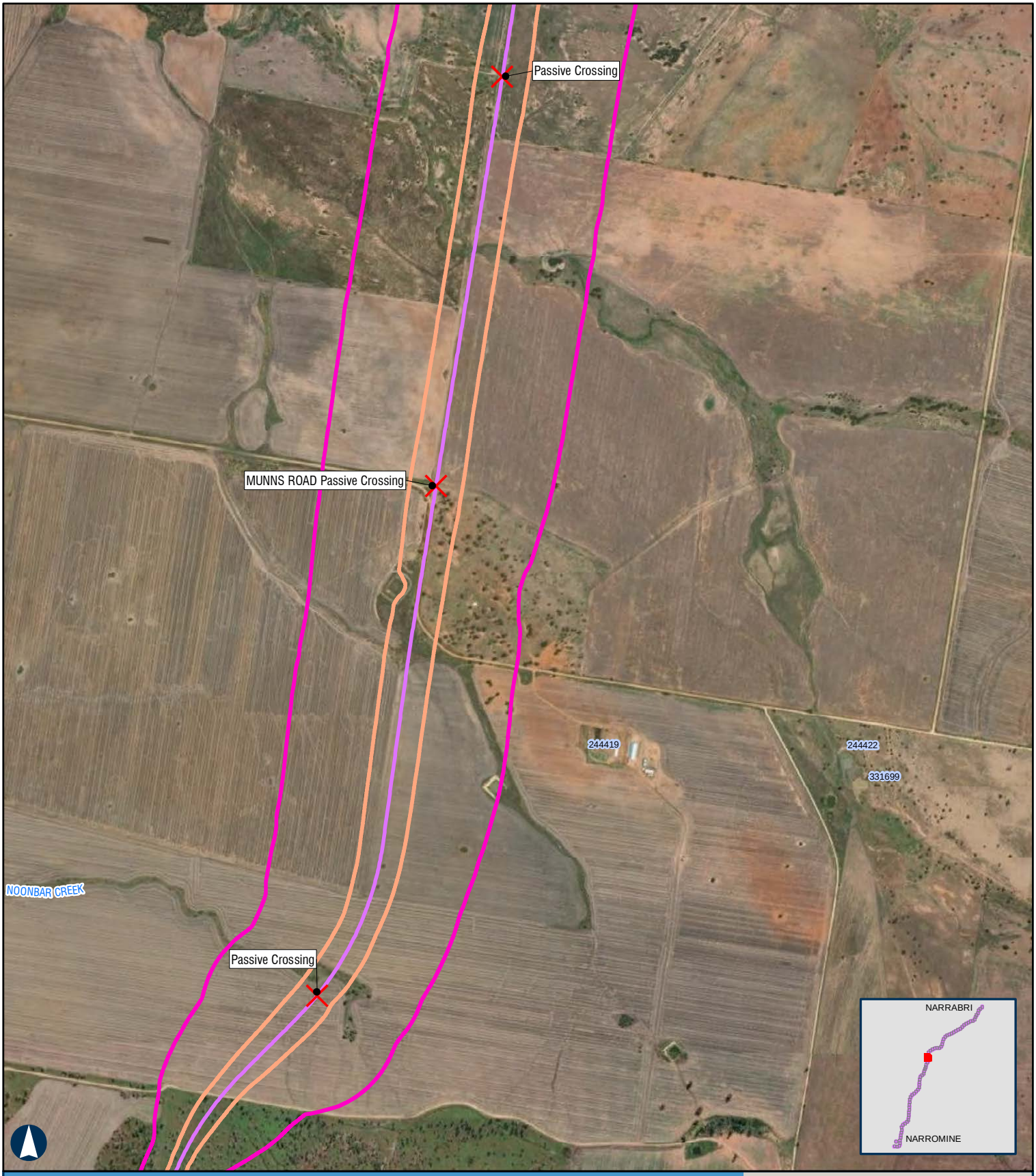
Noise contours are based on a set distance above the local terrain level of 2.4m.

- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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- Daytime noise criteria LA max 85dBA upgrading existing rail corridor

ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 42 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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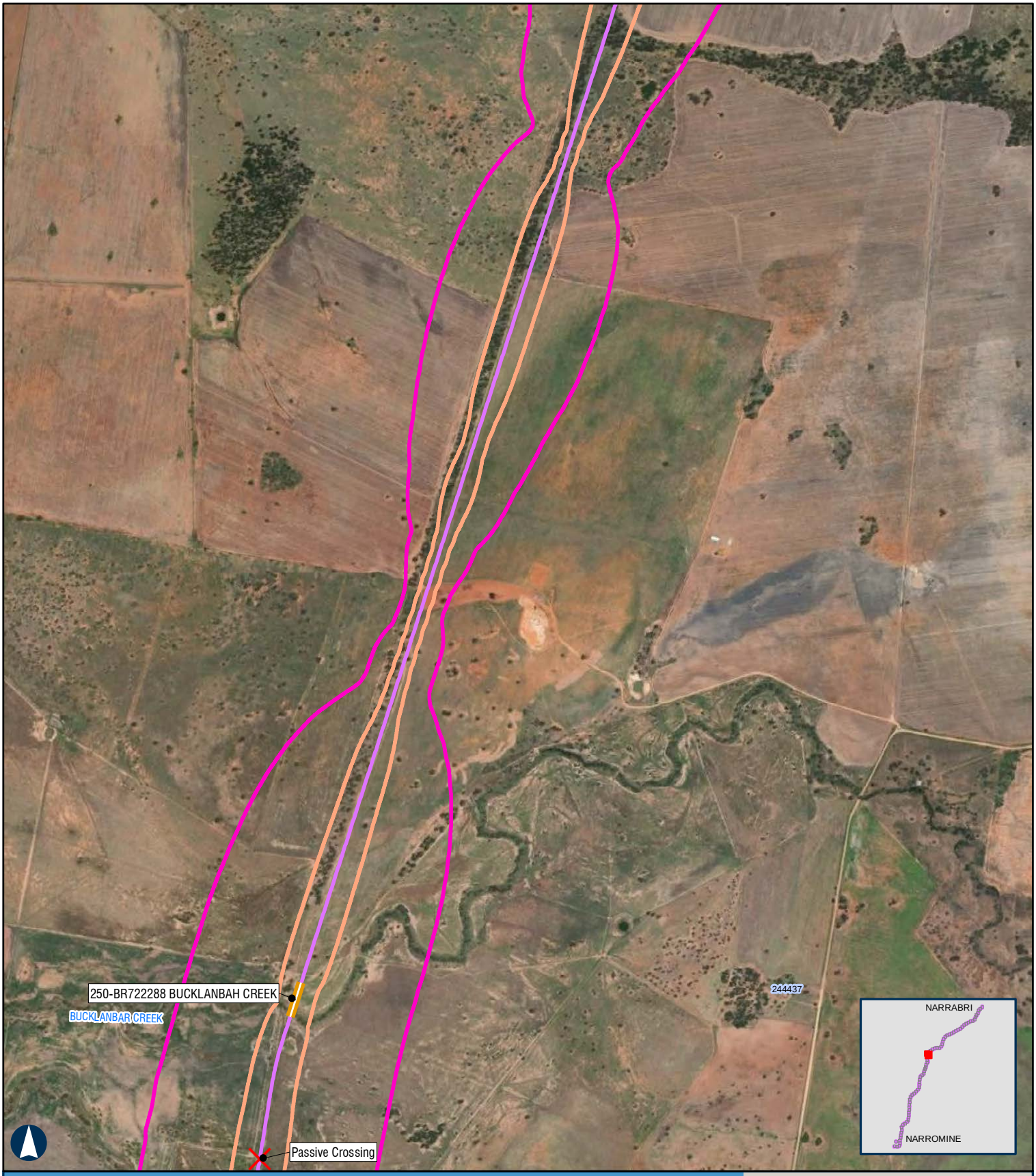
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 43 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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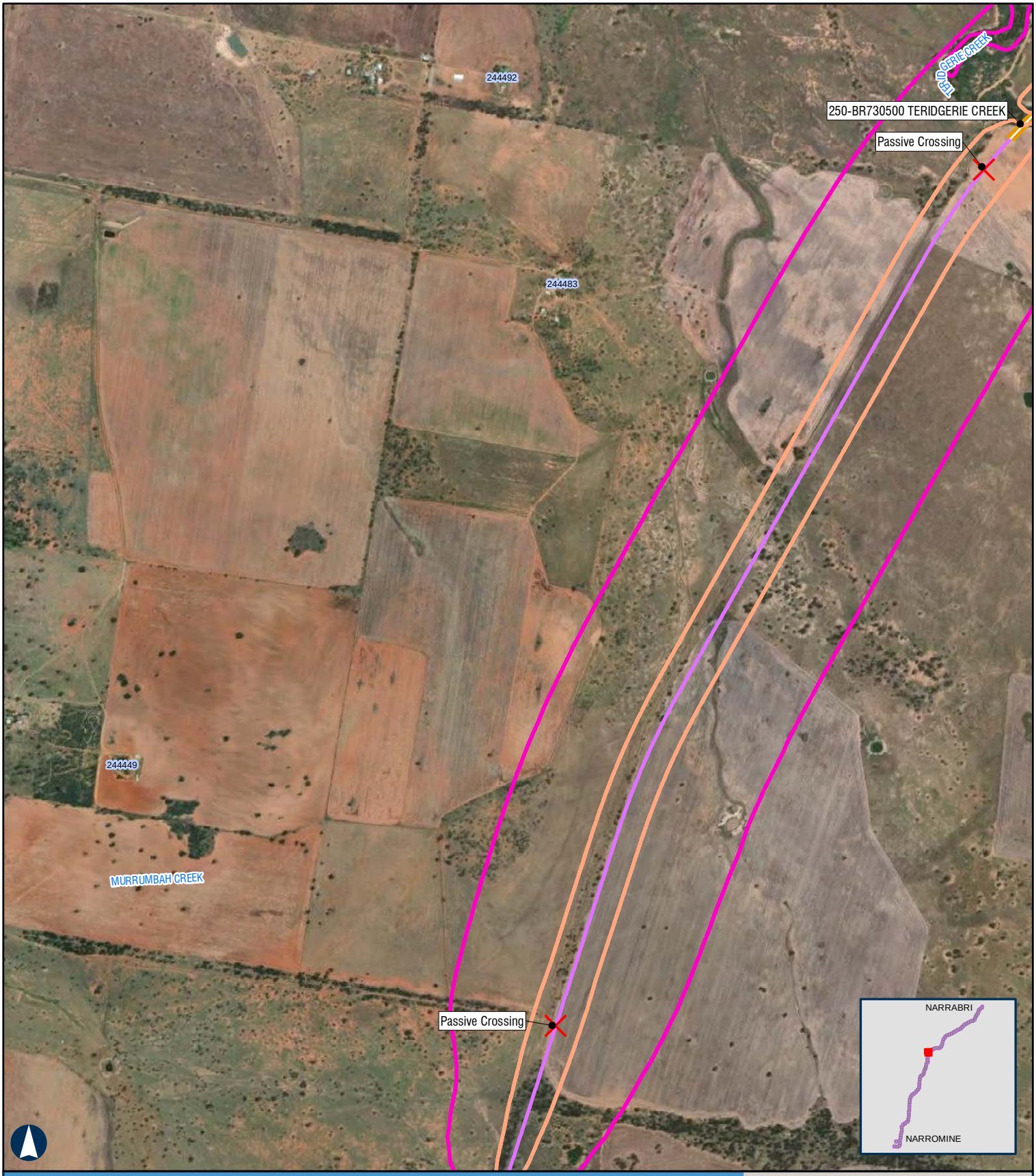
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 44 of 148

500 m

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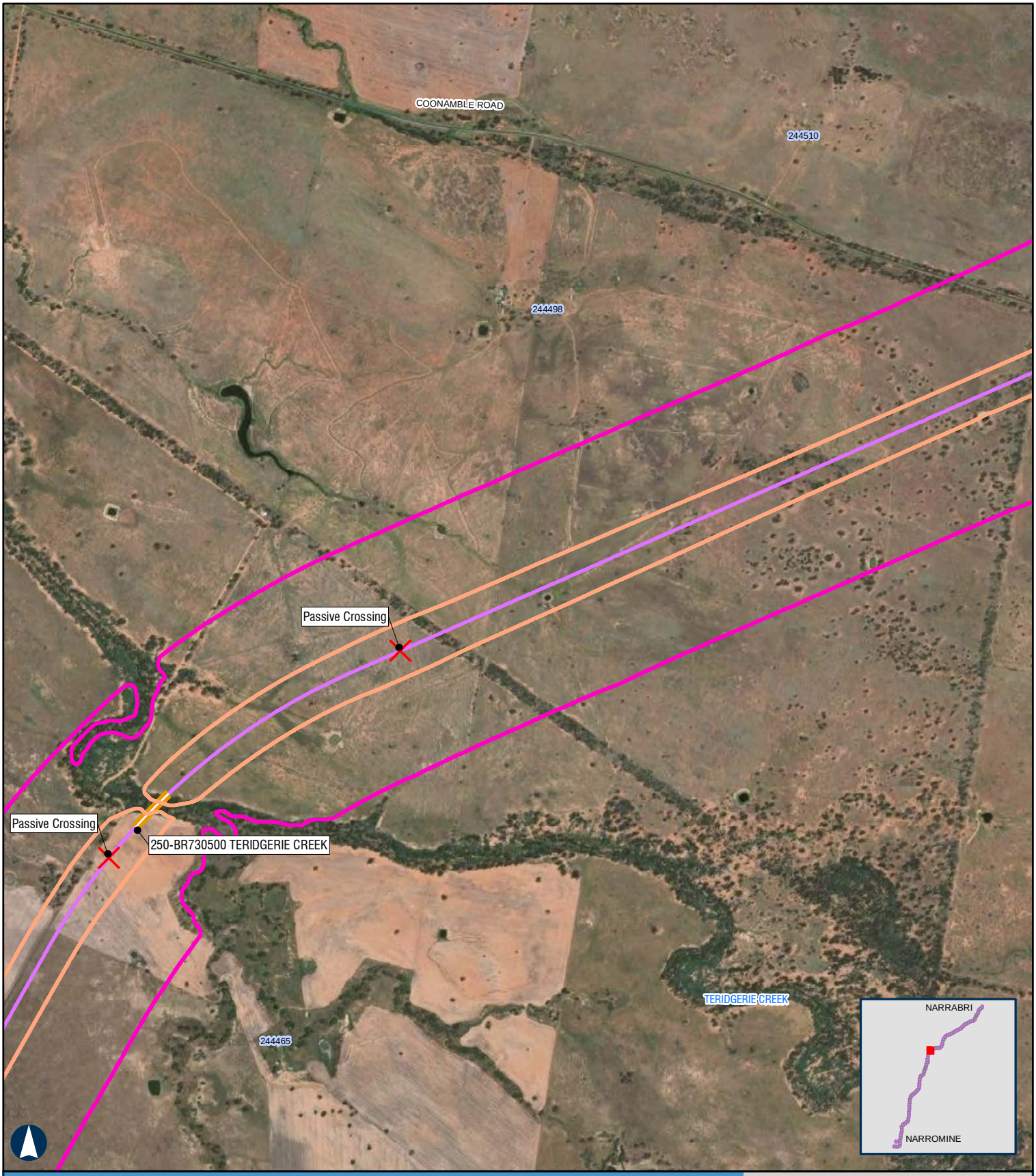
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 45 of 148

500 m

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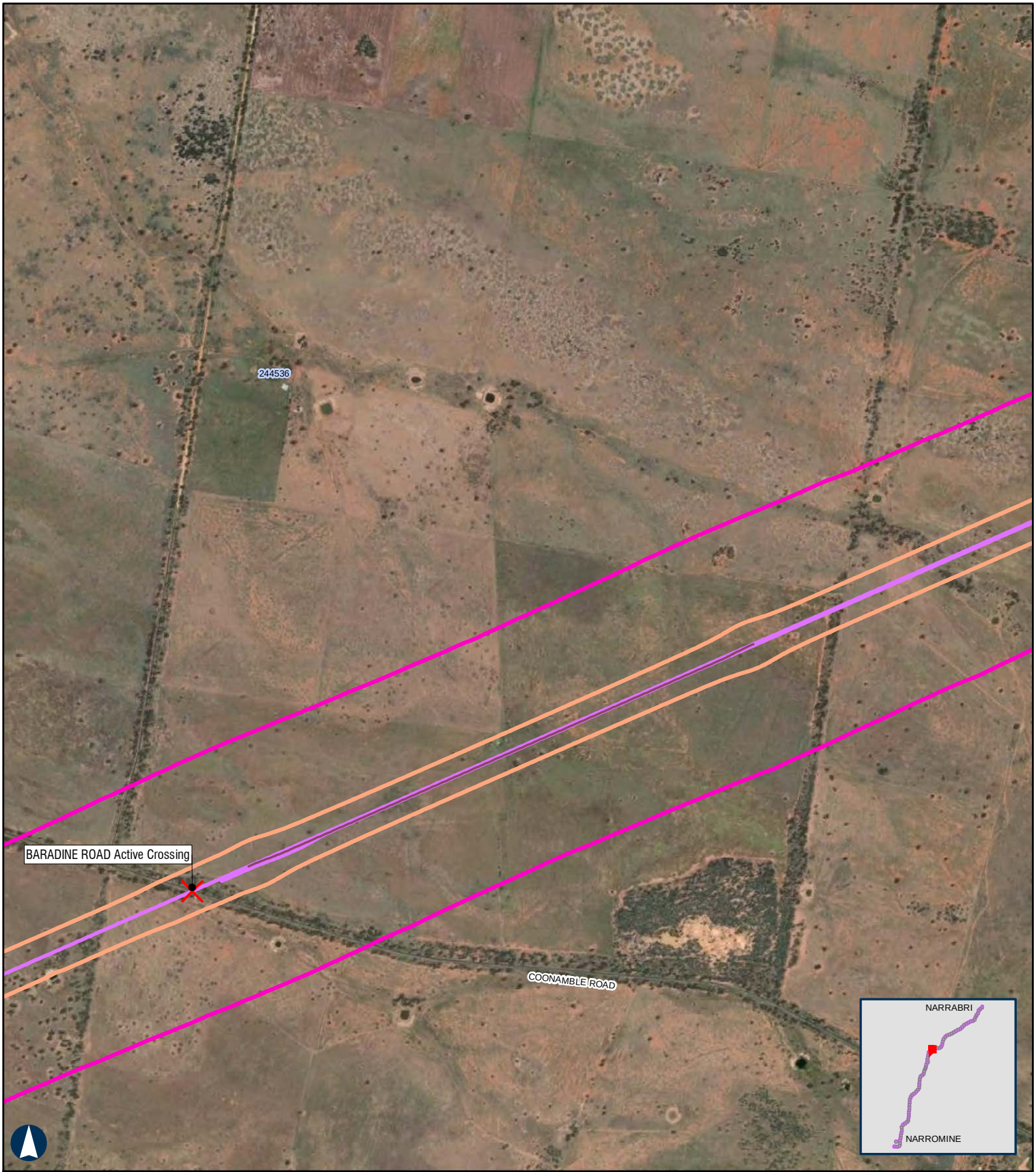
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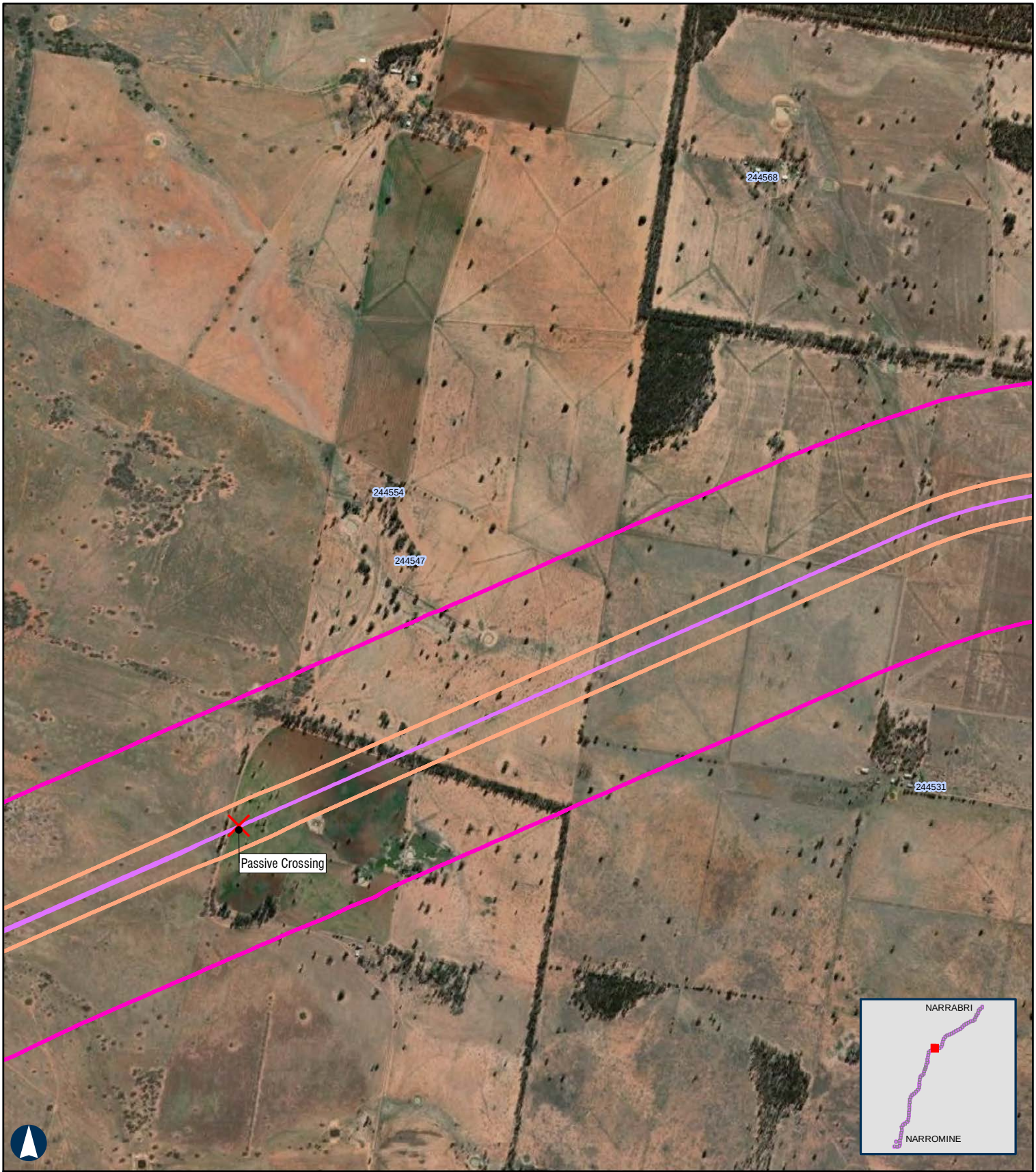
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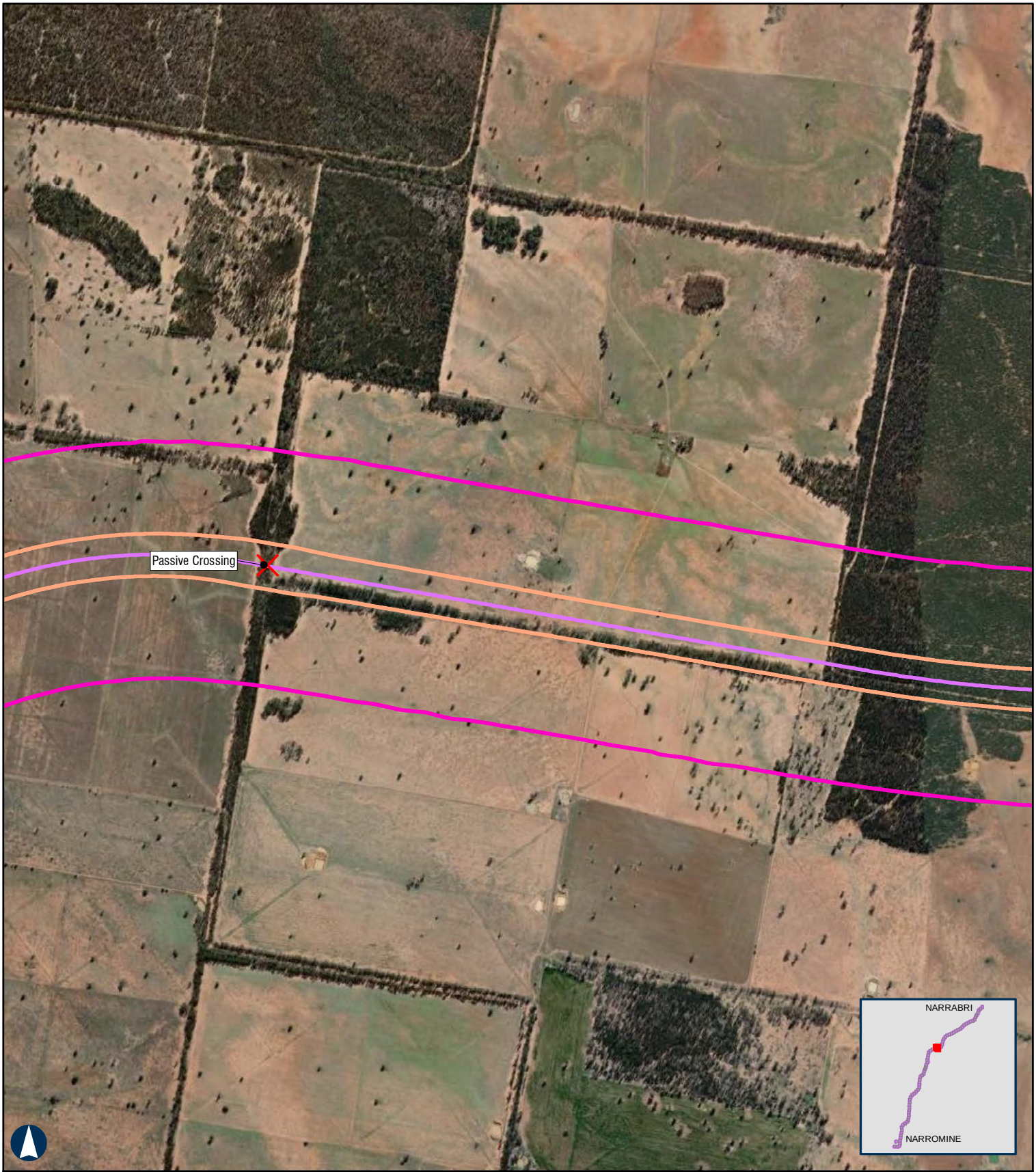
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 48 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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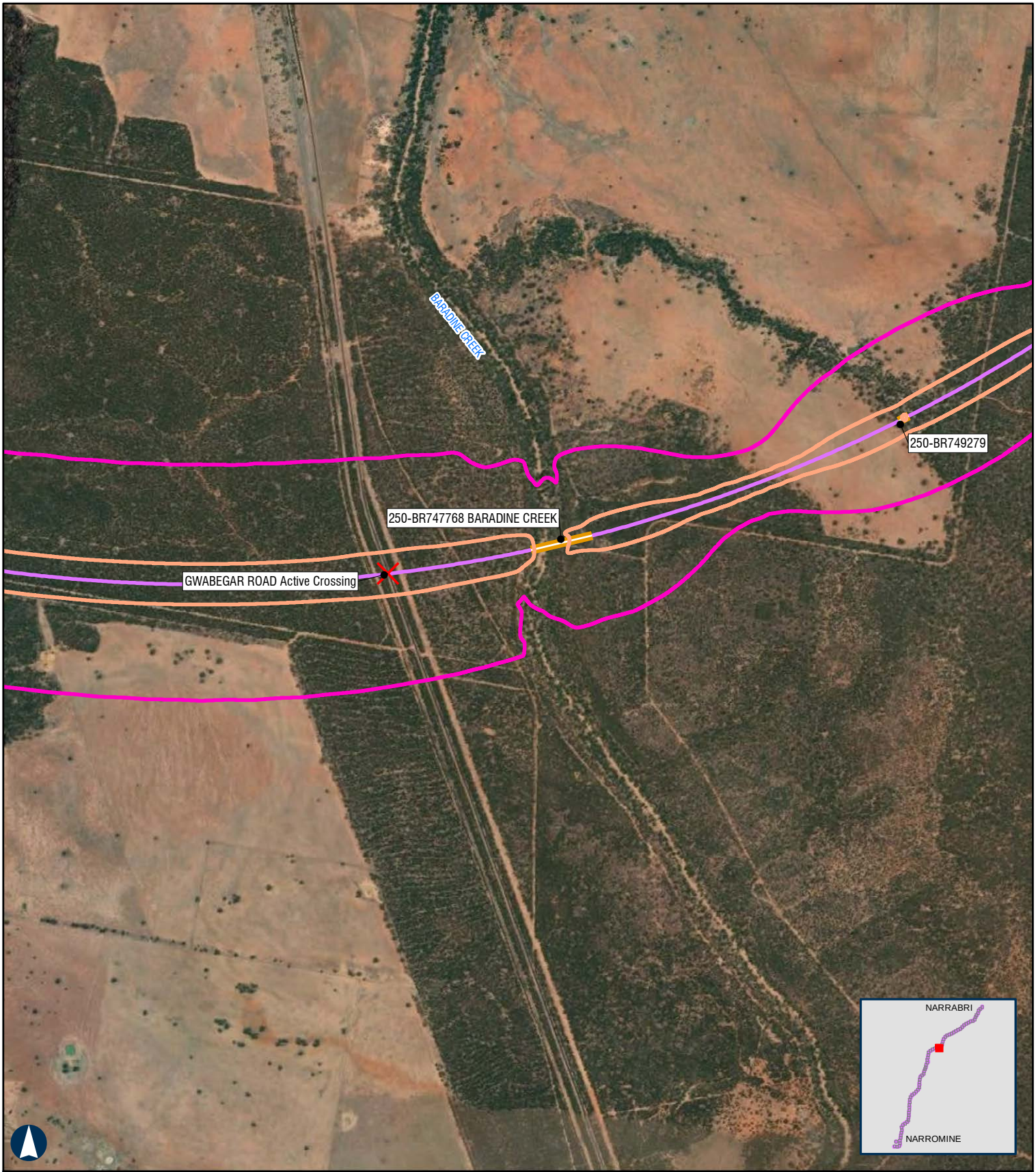
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Year 2040 Daytime Rail Noise Levels

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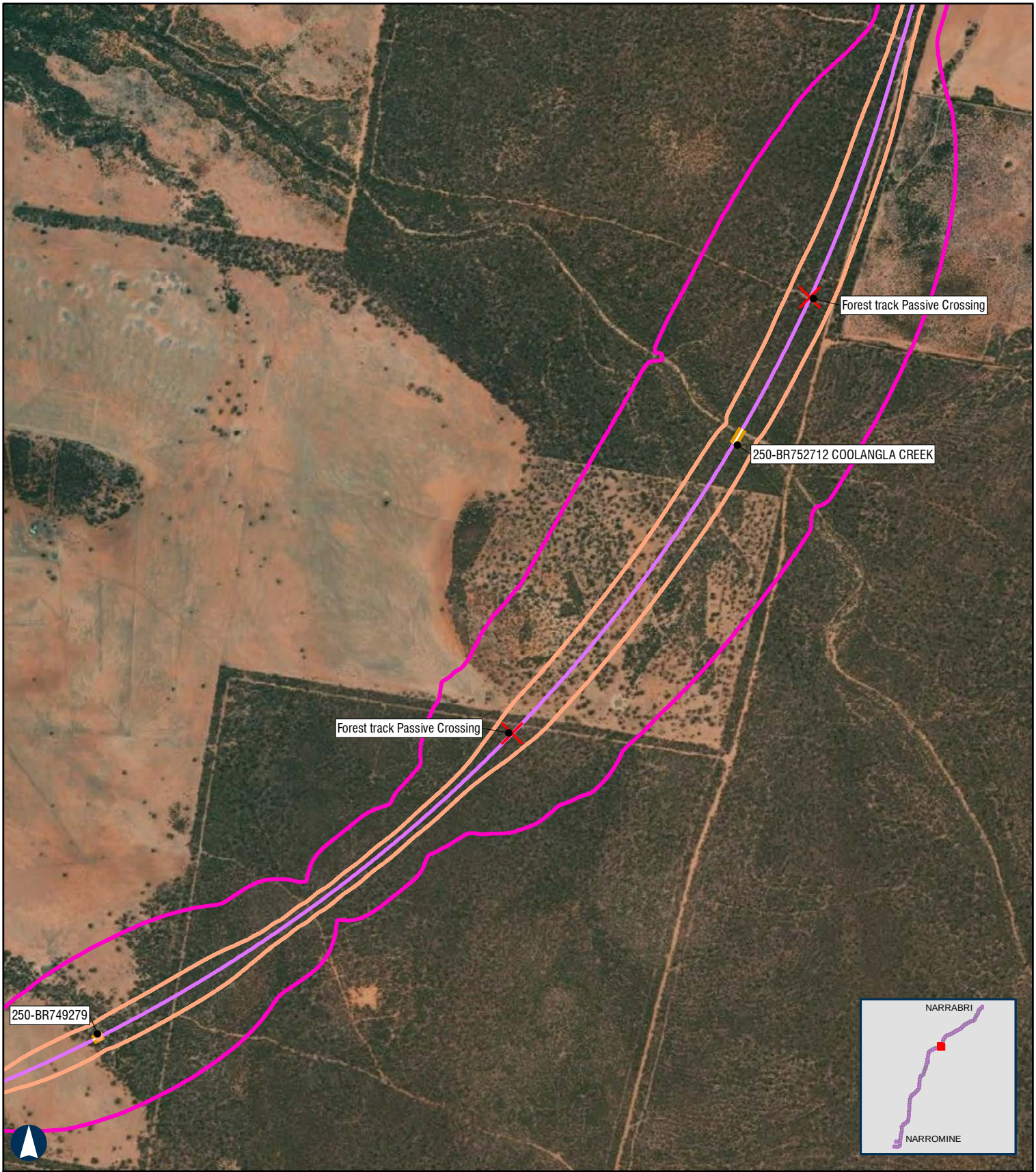
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 50 of 148

500 m

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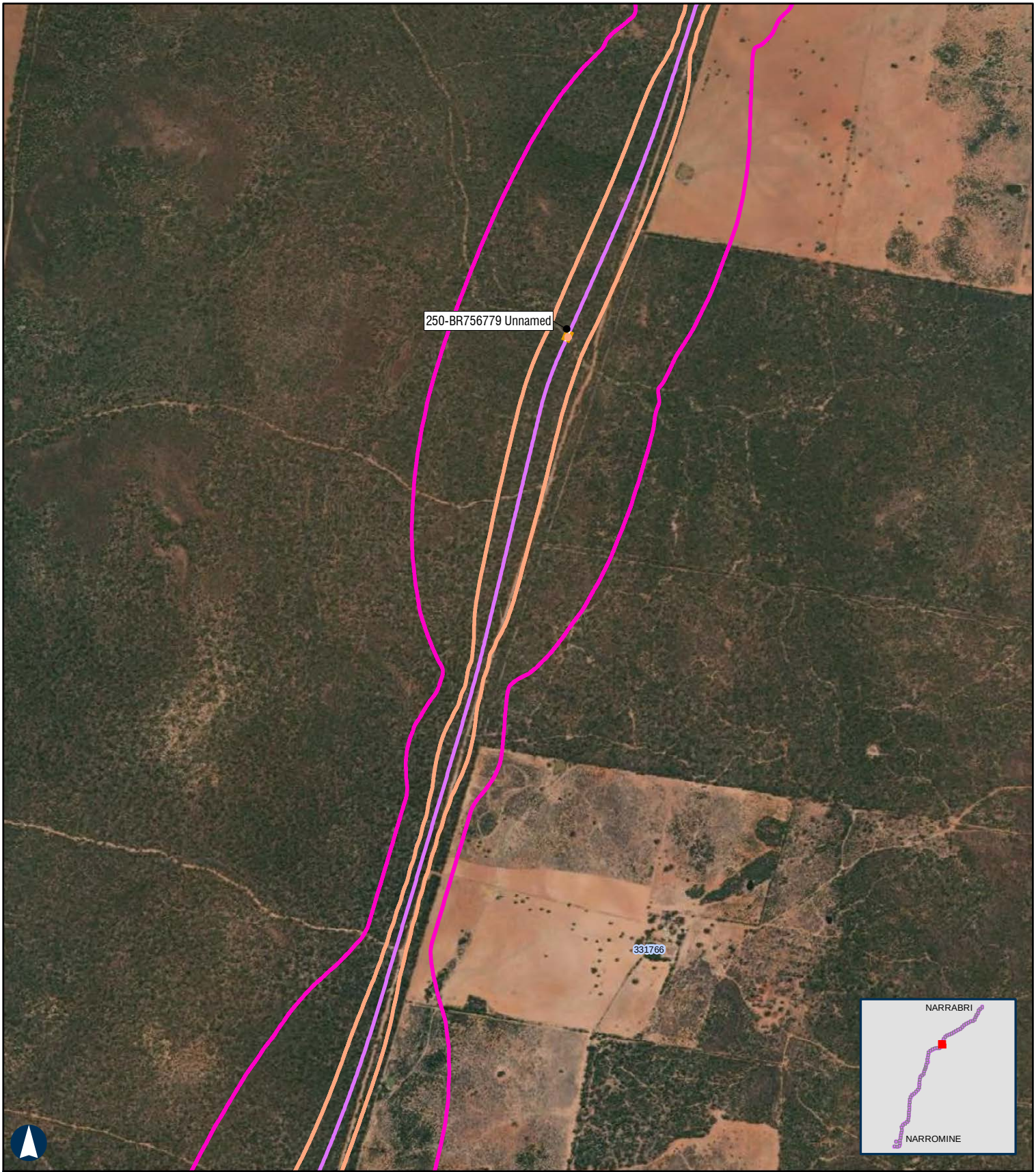
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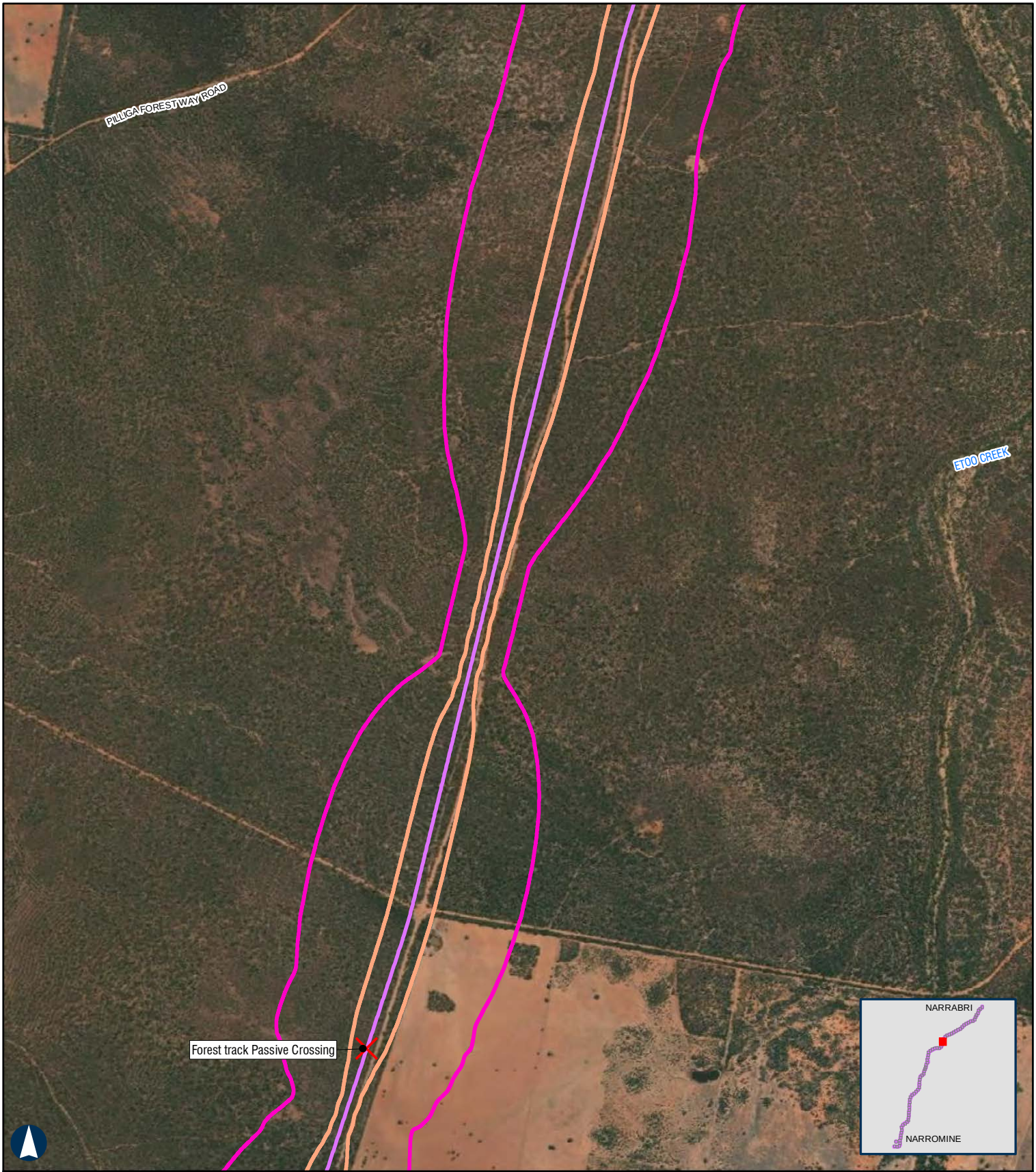
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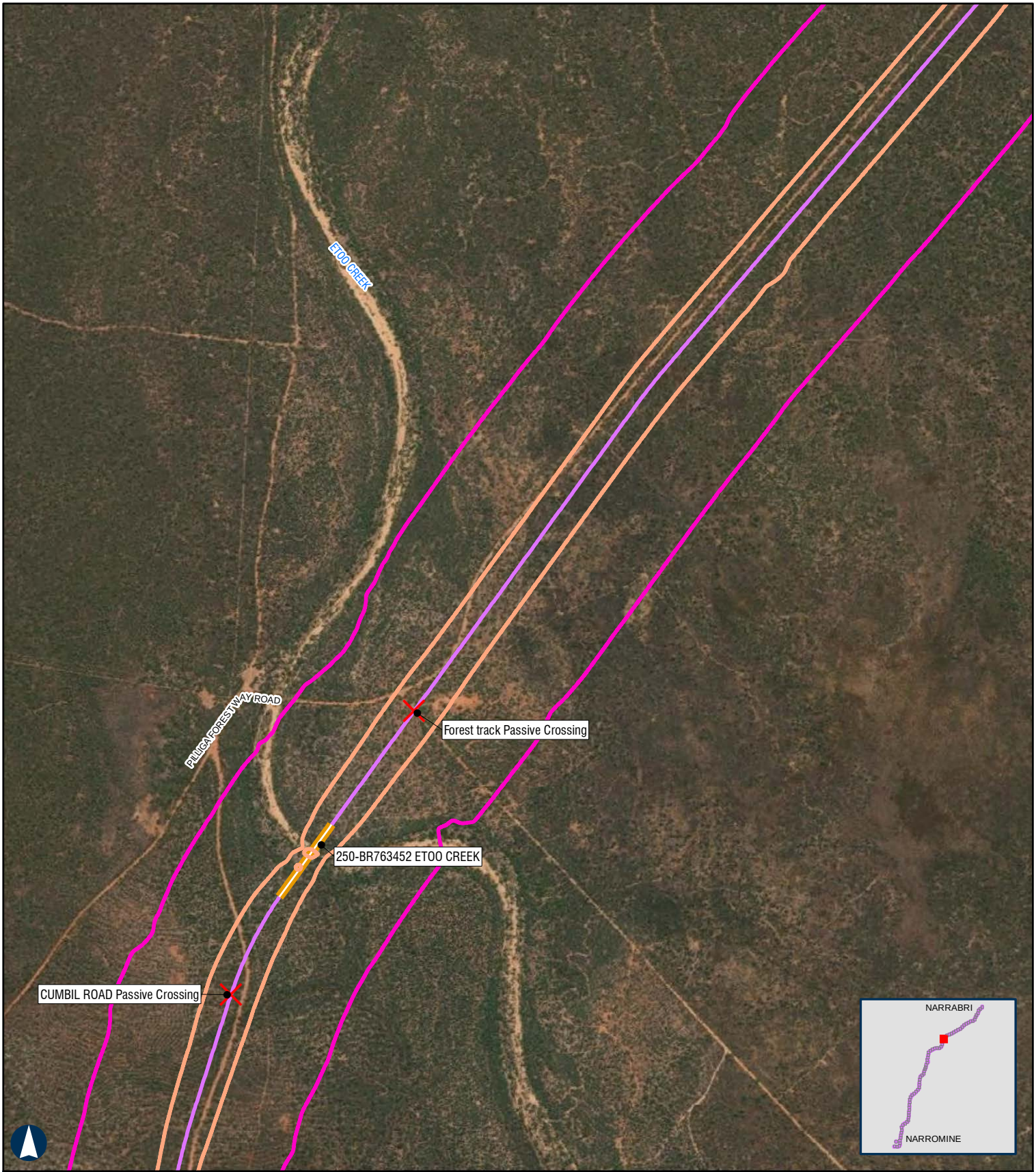
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 53 of 148

500 m

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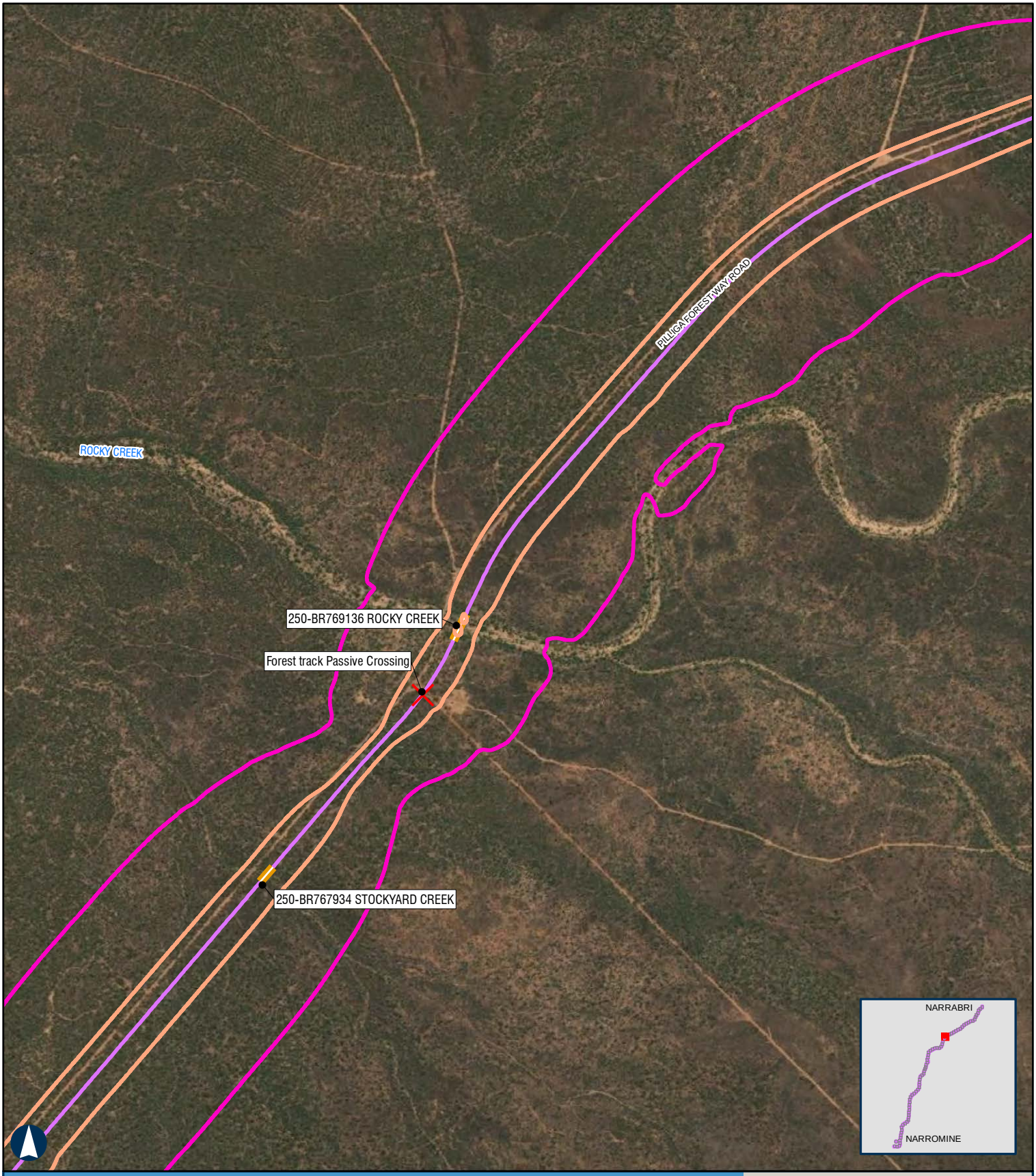
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- Crossing Loops
- Rail Alignment/Centreline
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- Sensitive Receivers
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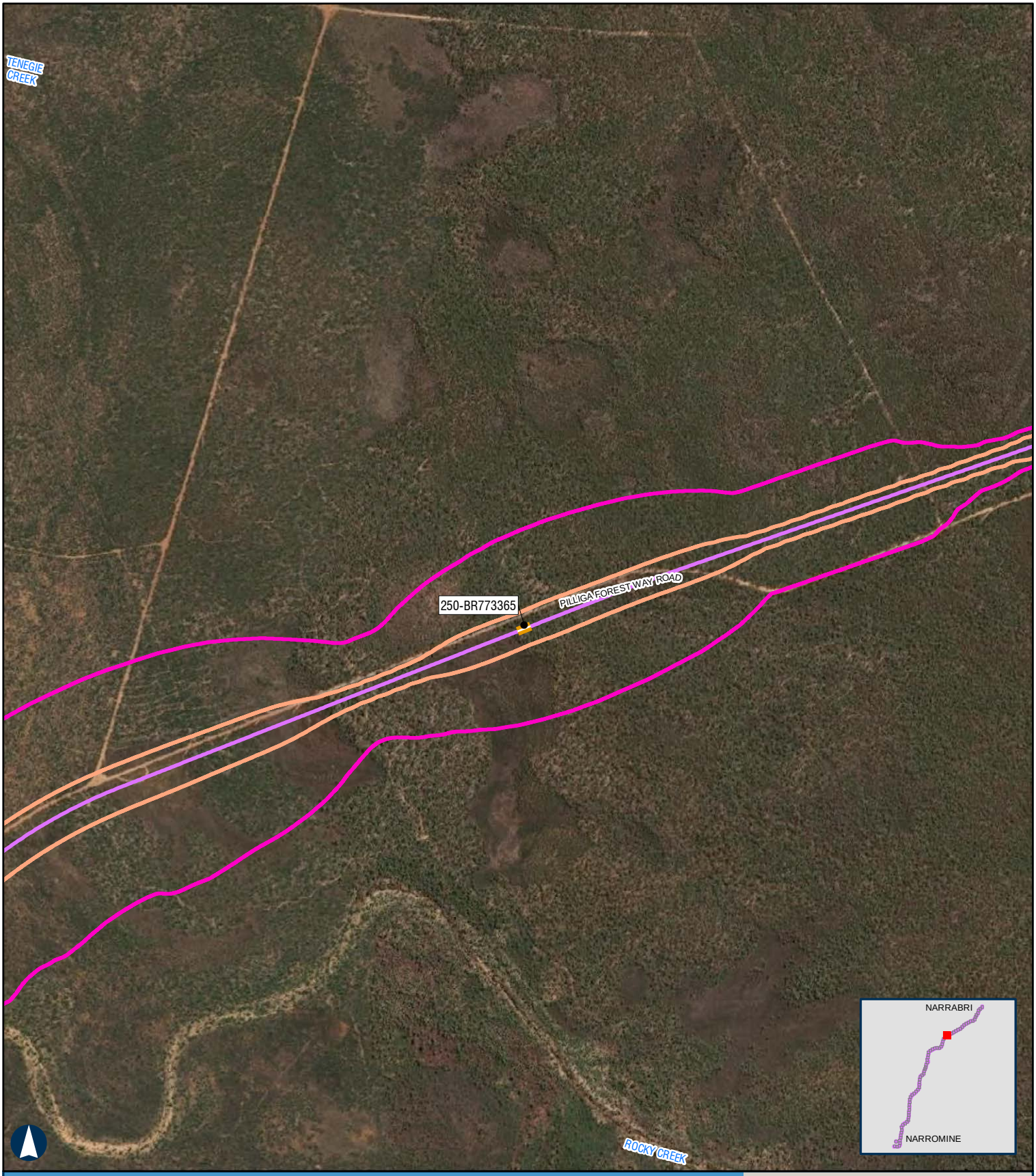
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 55 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Date: 01-Feb-2022
Author: JG

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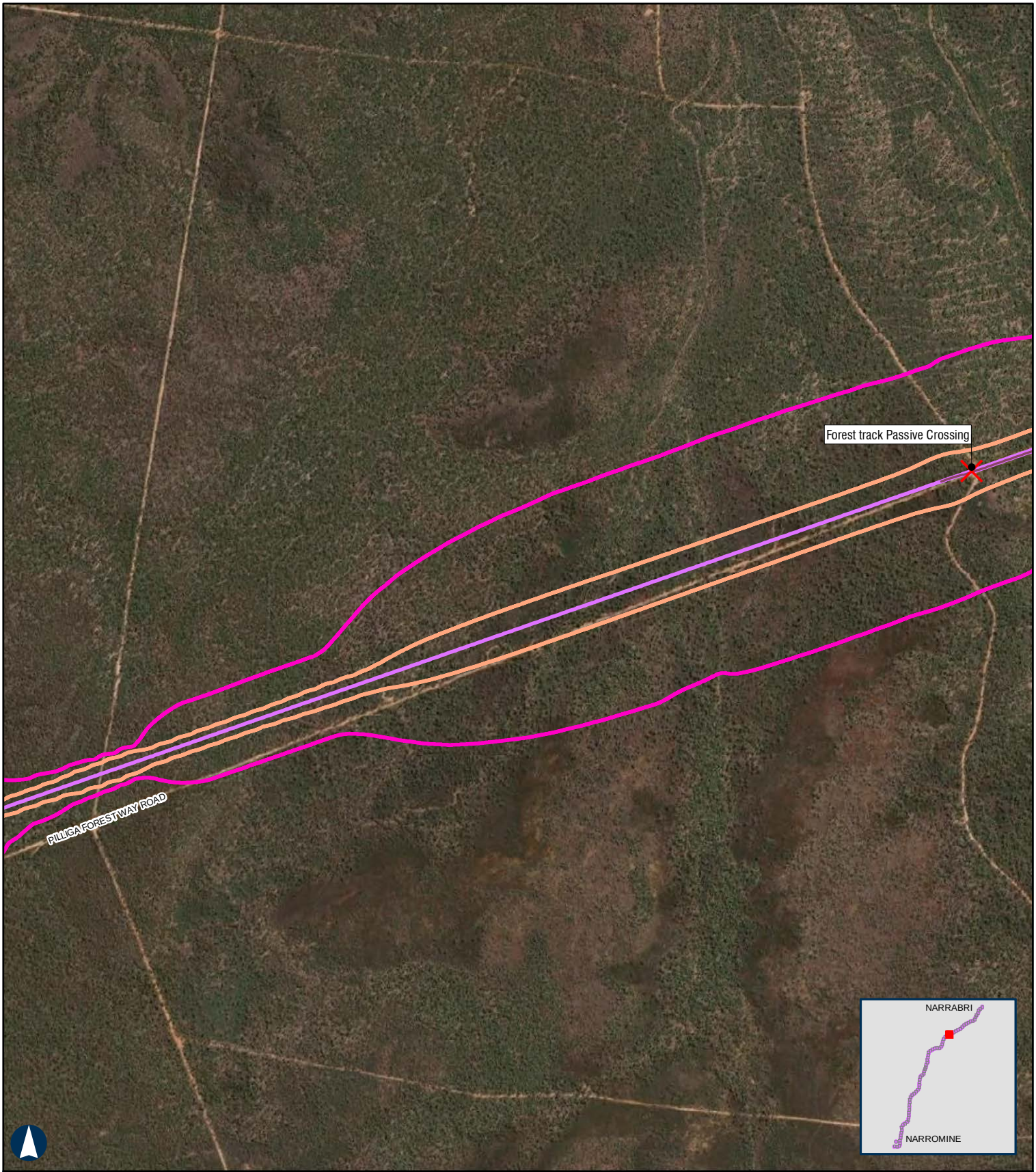
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 56 of 148

500 m

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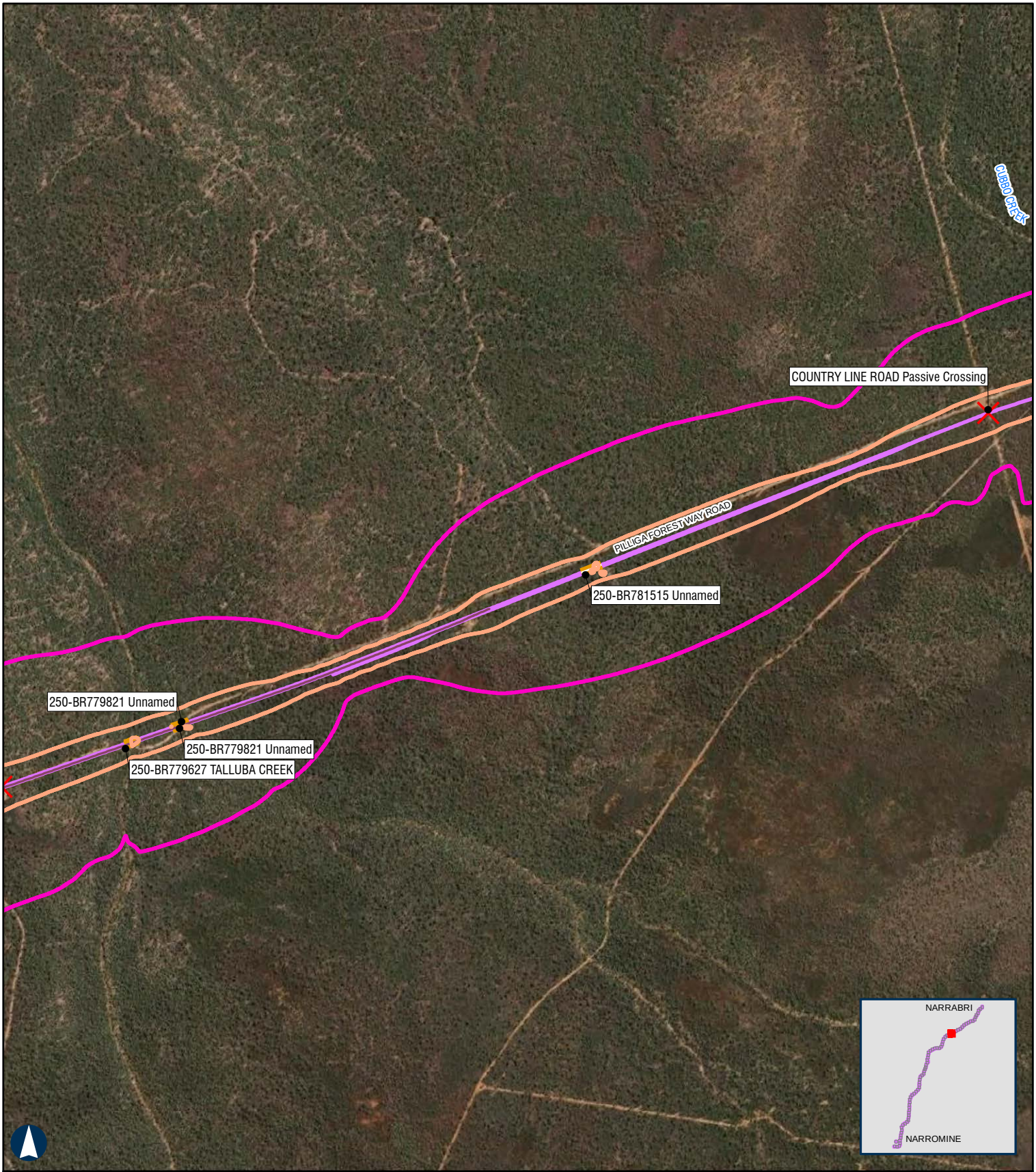
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 57 of 148

500 m

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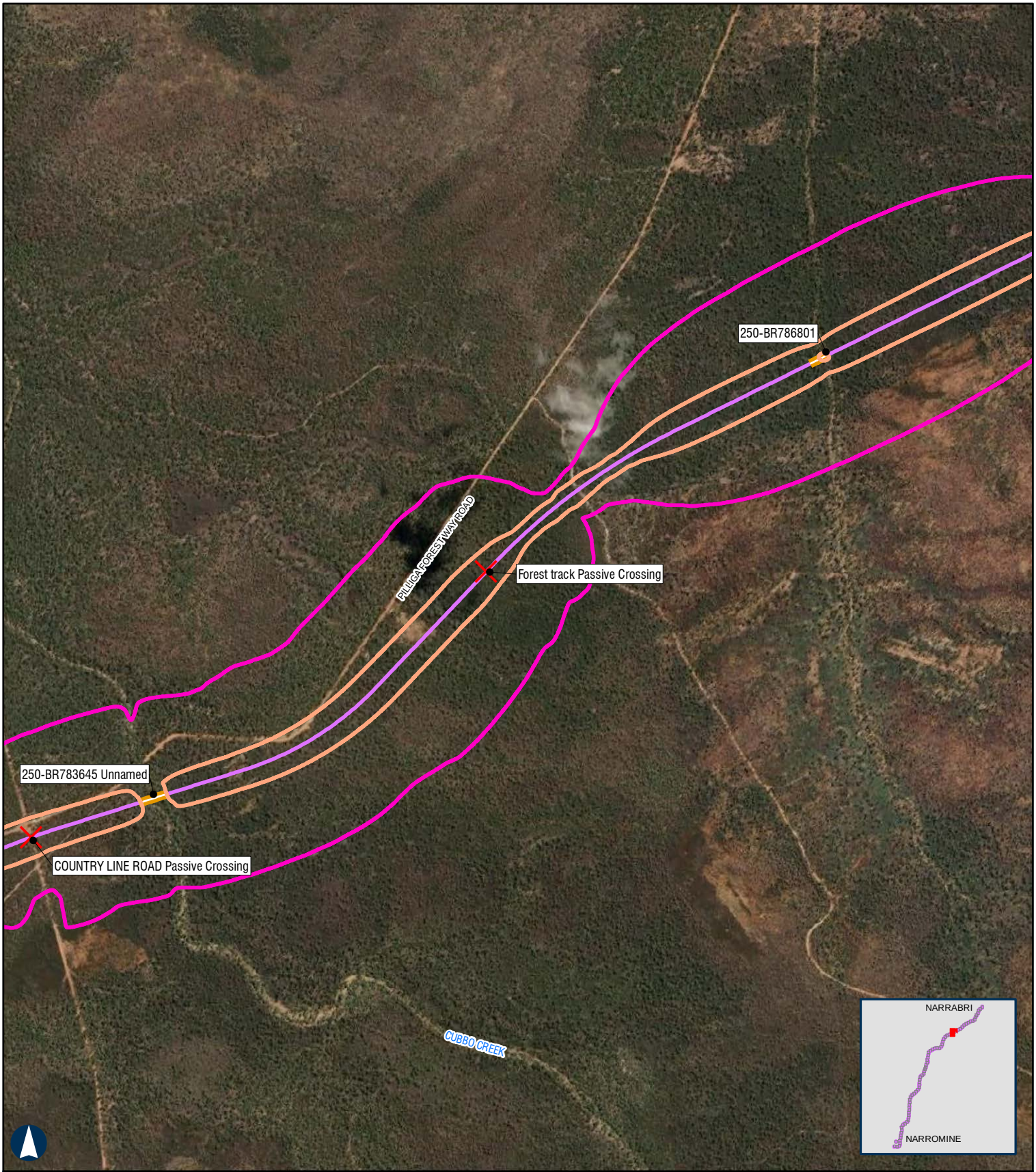
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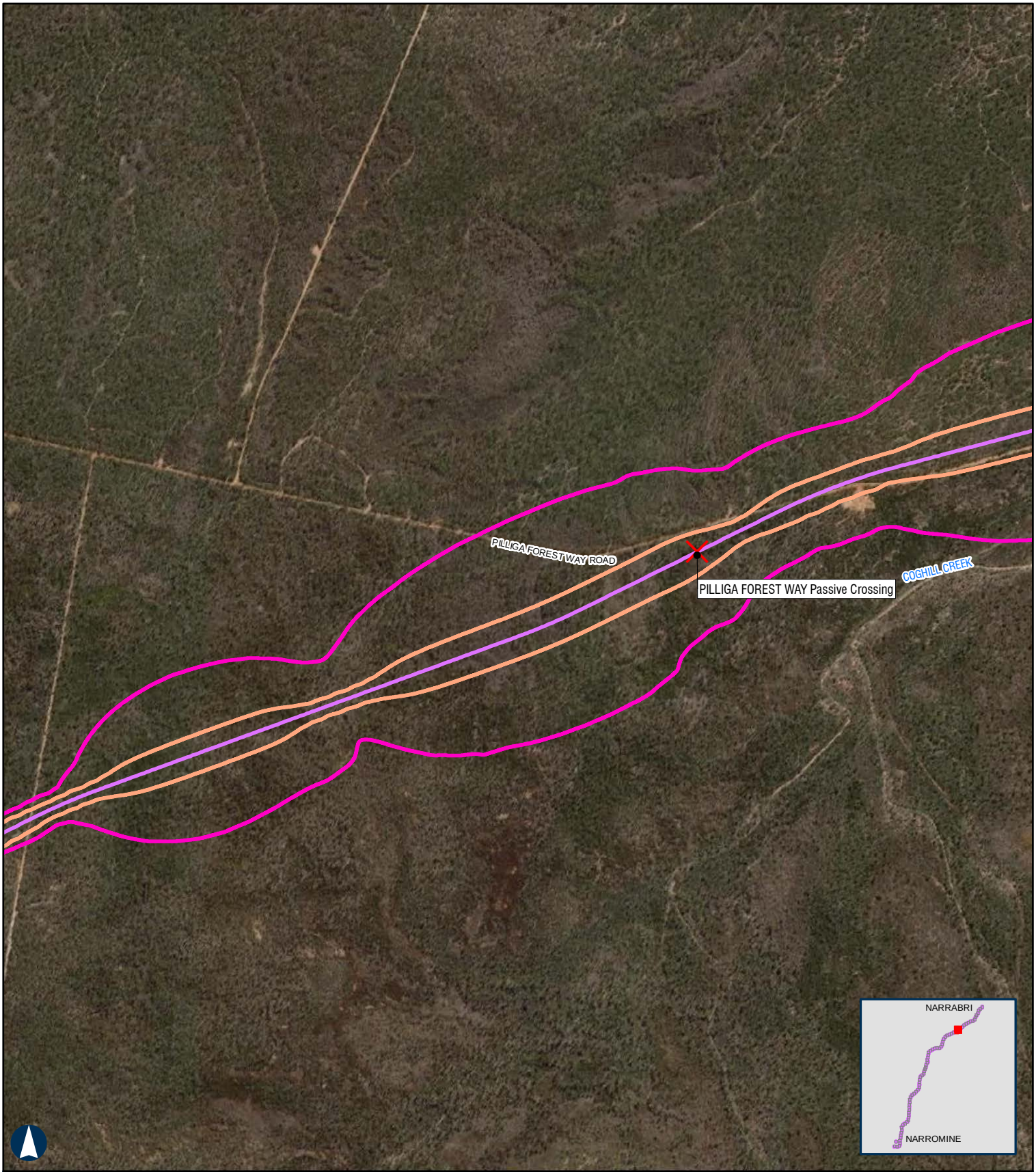
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 60 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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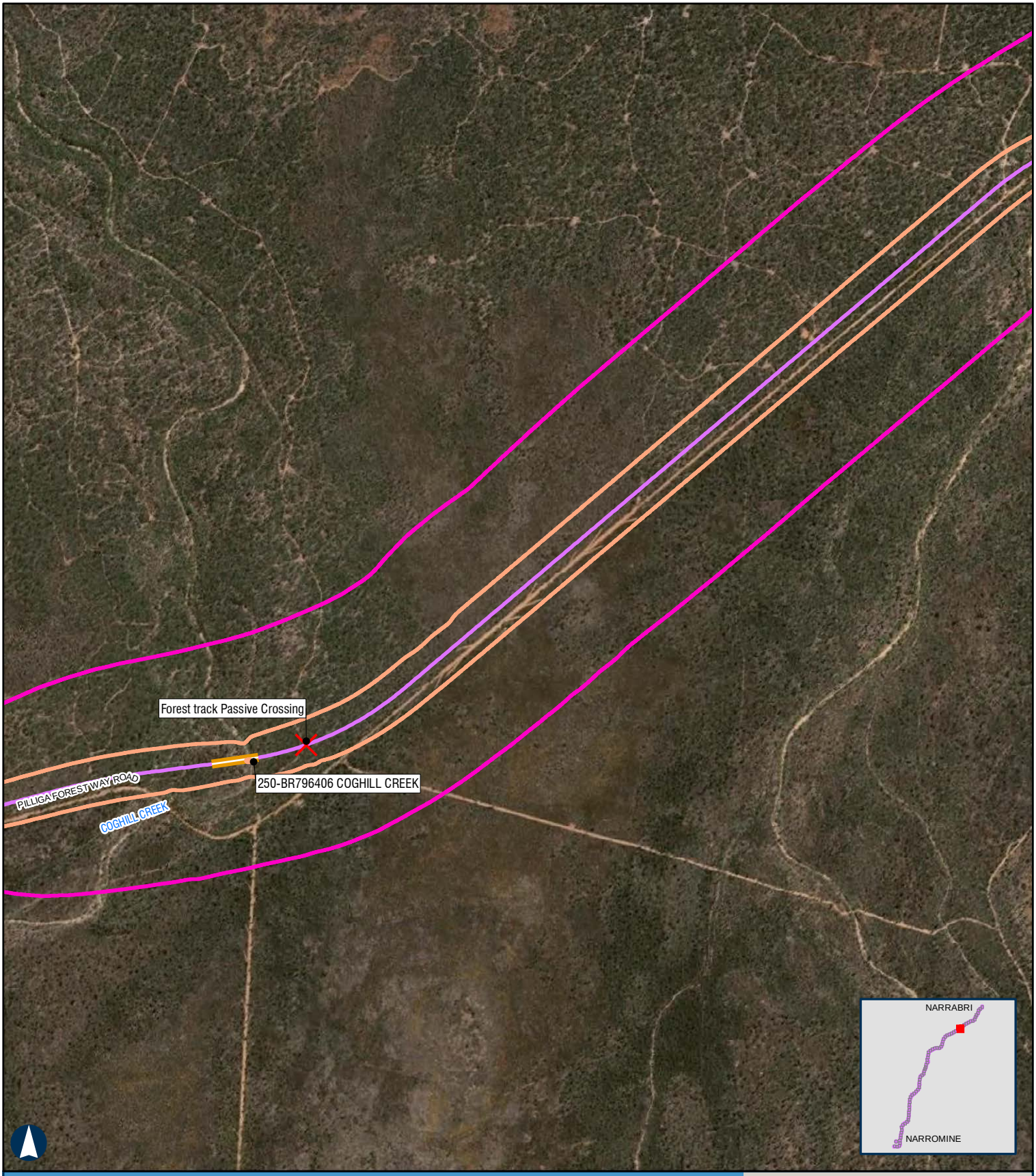
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 61 of 148

500 m

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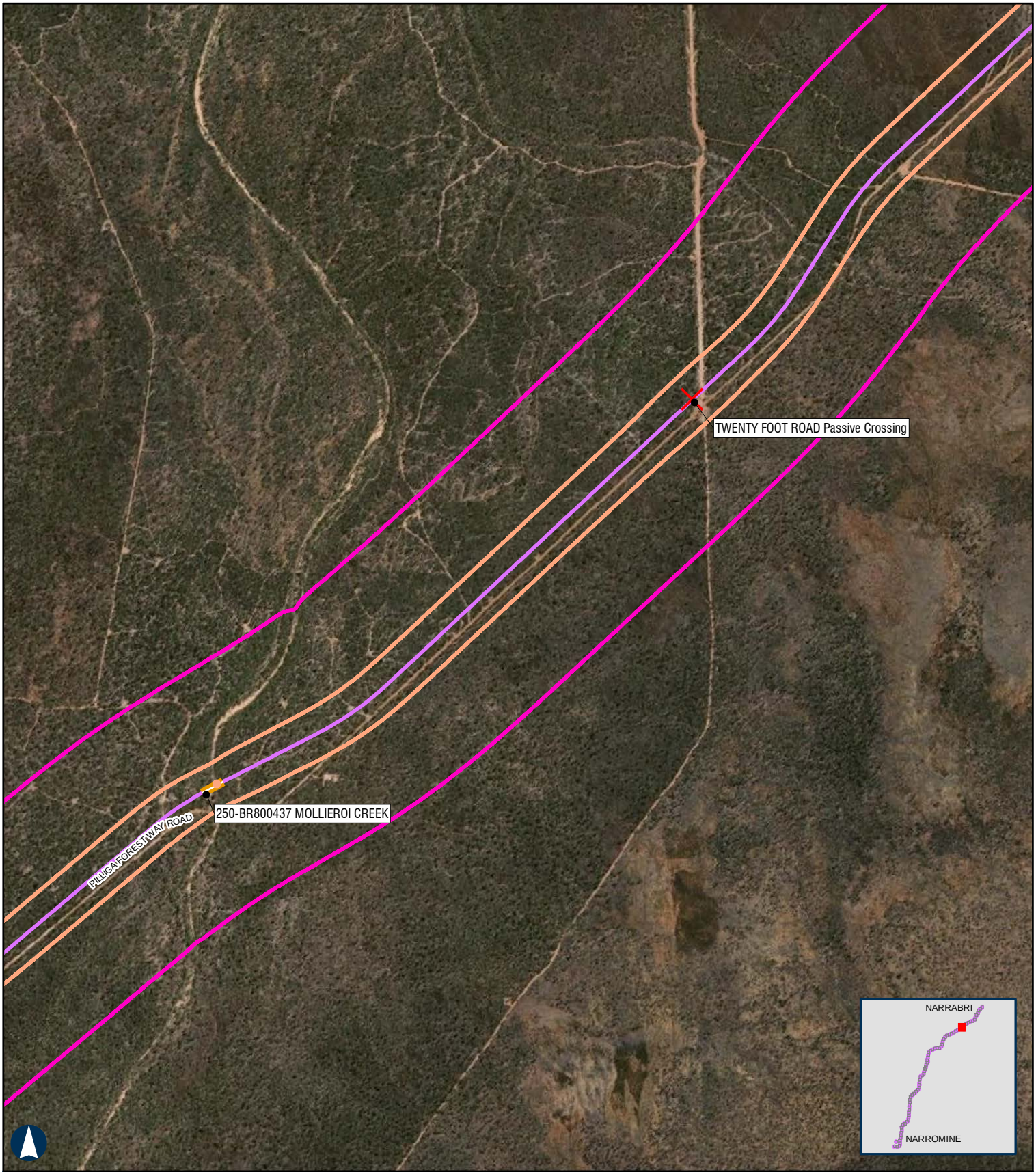
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 62 of 148

500 m

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Year 2040 Daytime Rail Noise Levels

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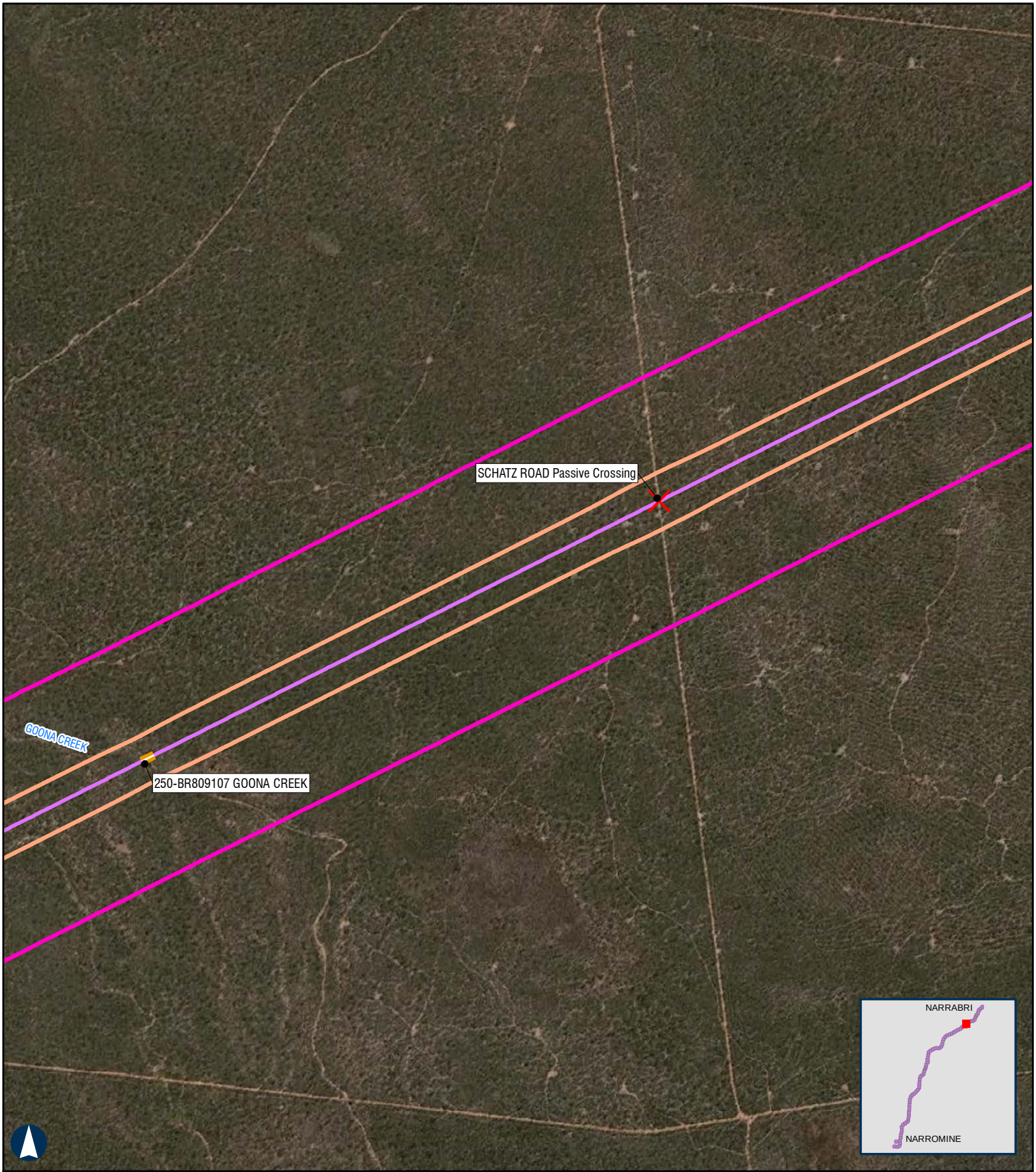
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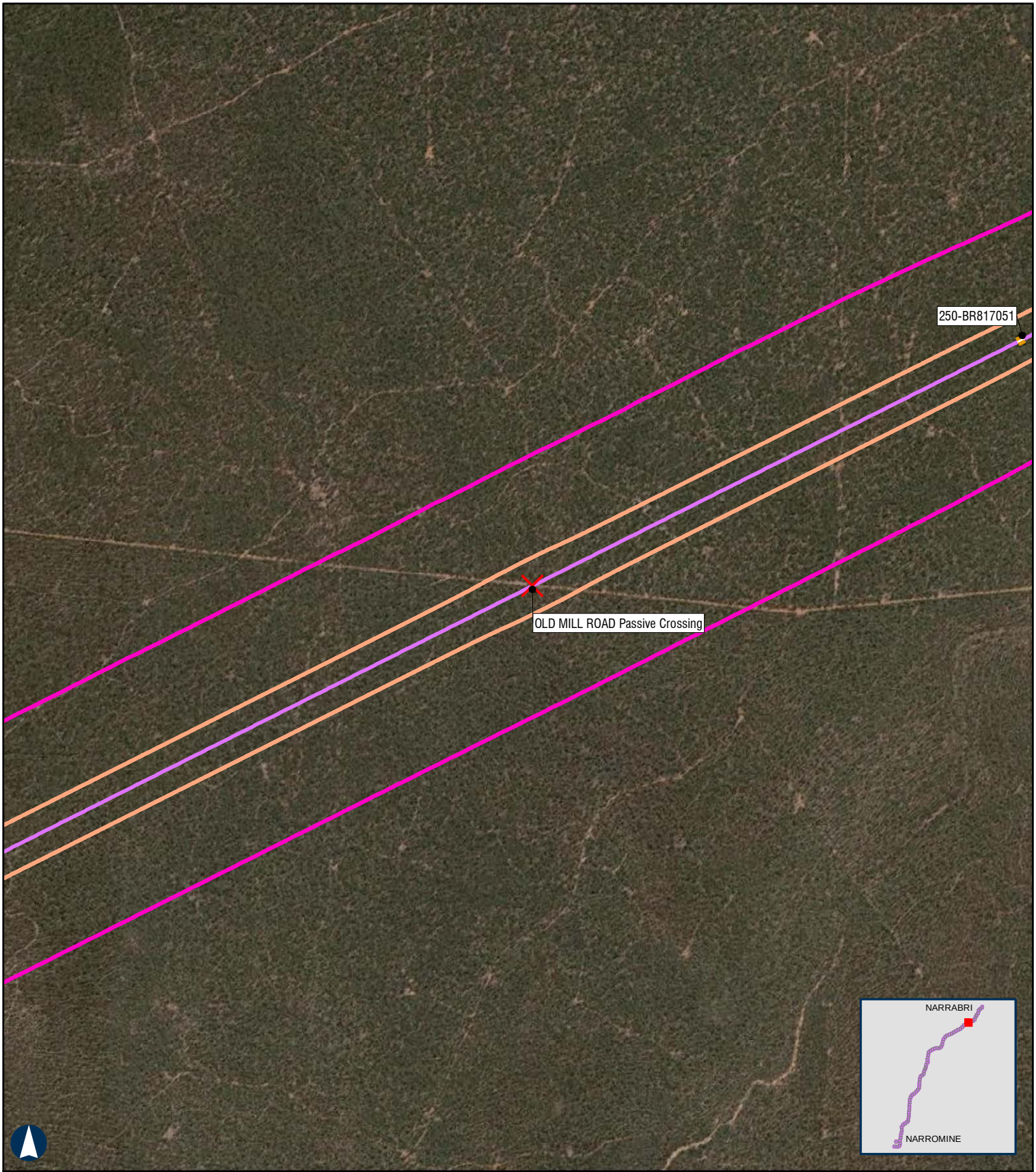
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 65 of 148

500 m

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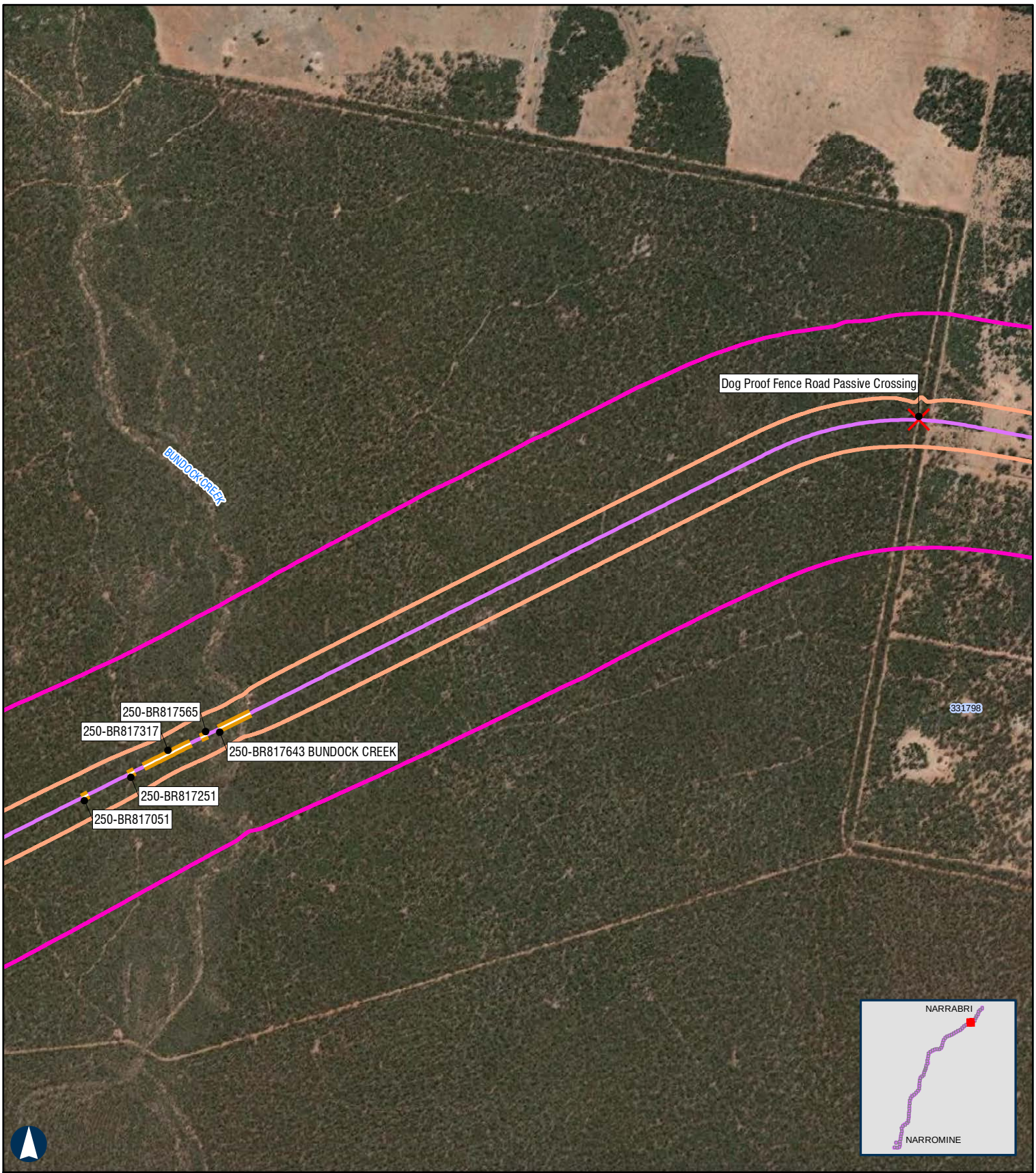
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Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 66 of 148

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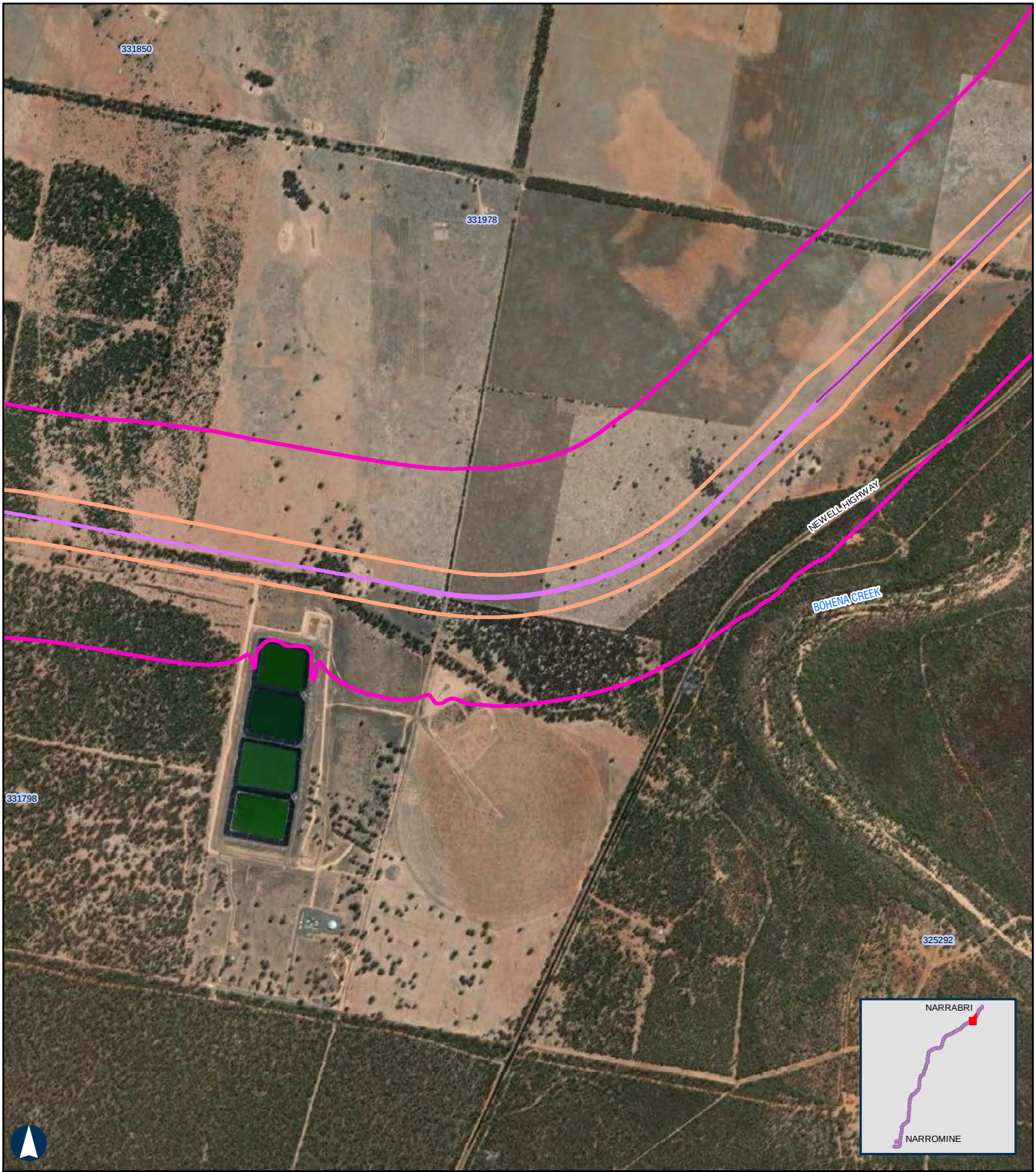
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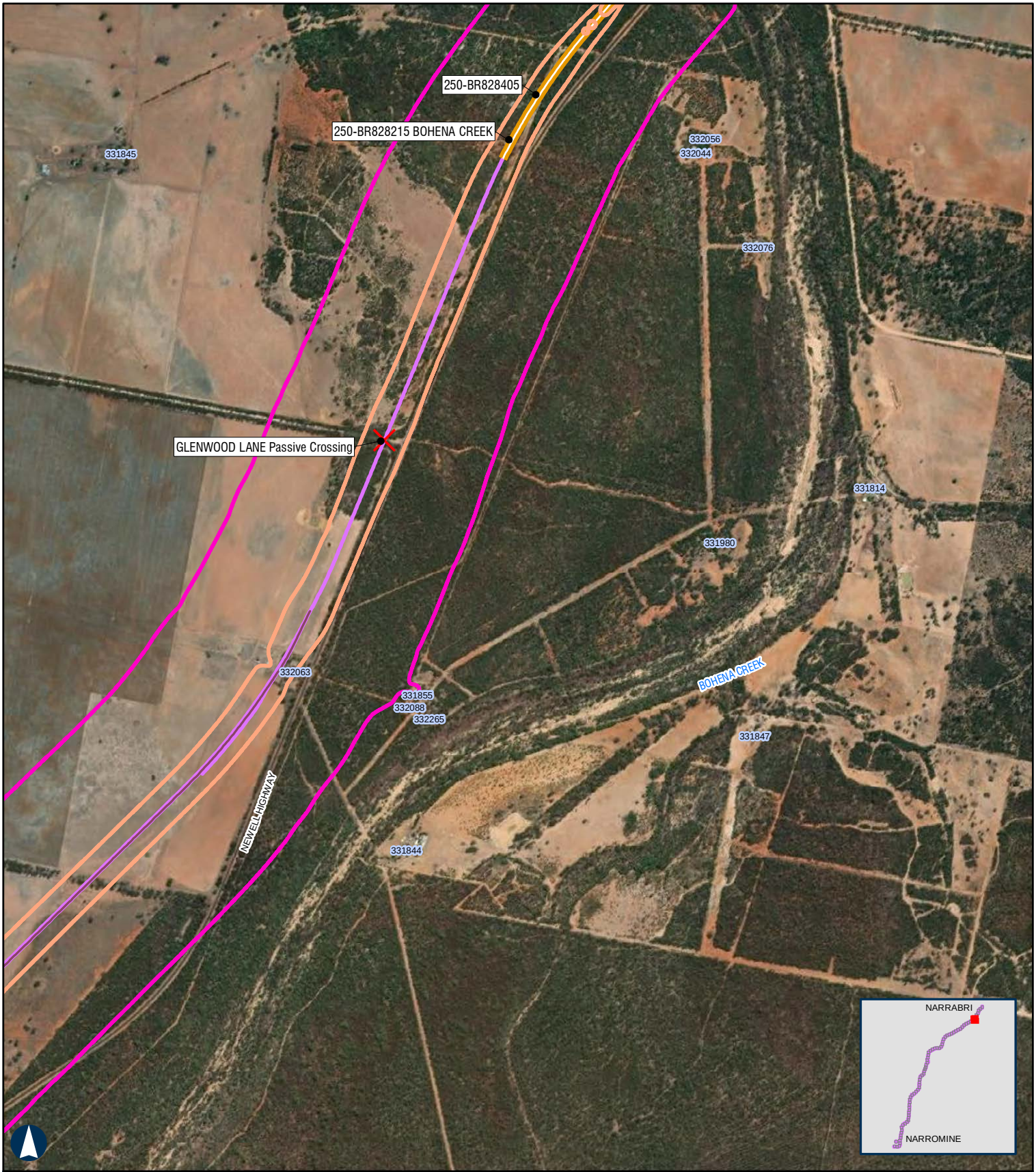
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 68 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

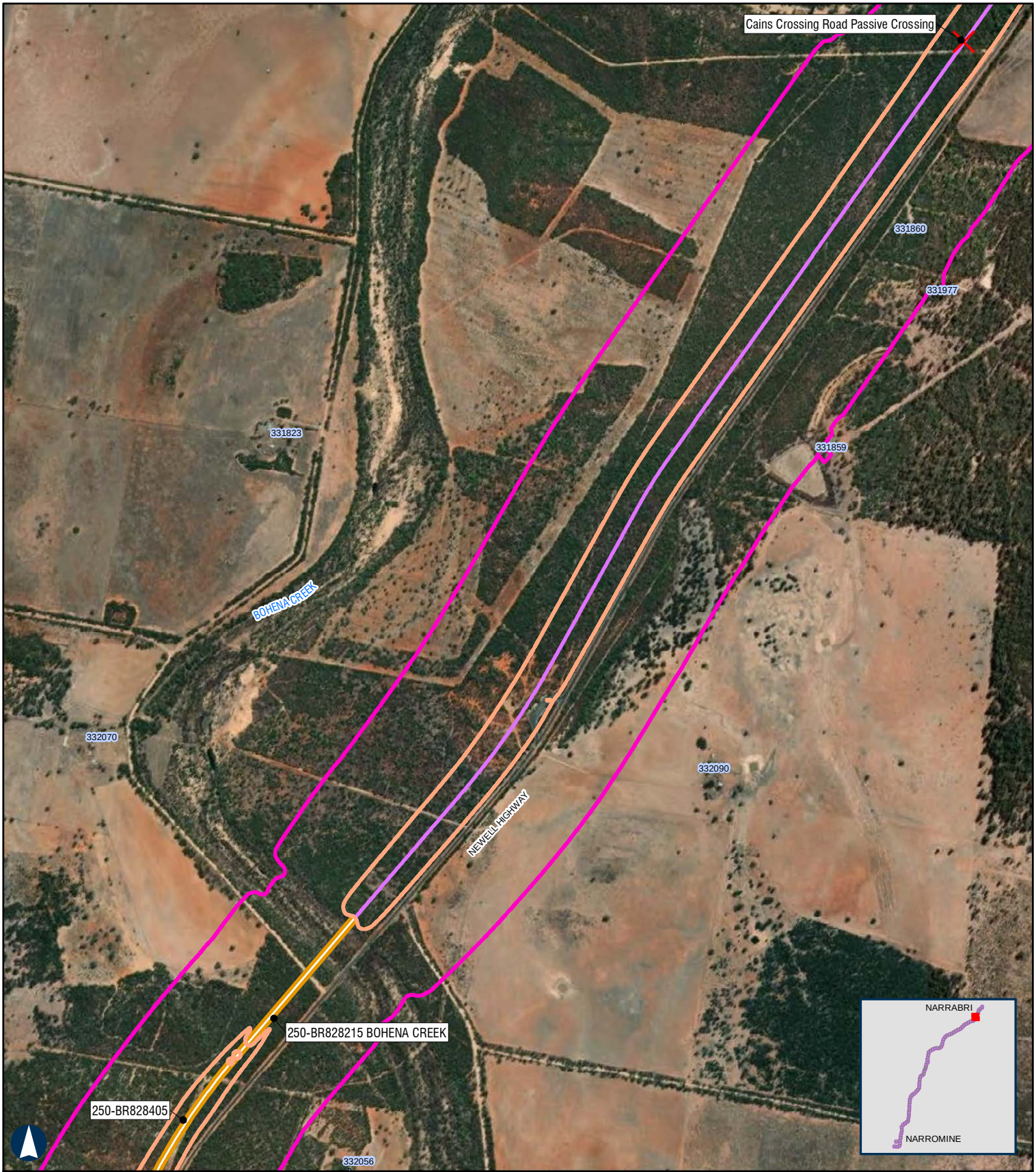
- Daytime noise criteria LAeq15hr 60dBA new rail corridor
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Noise contours are based on a set distance above the local terrain level of 2.4m.

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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 69 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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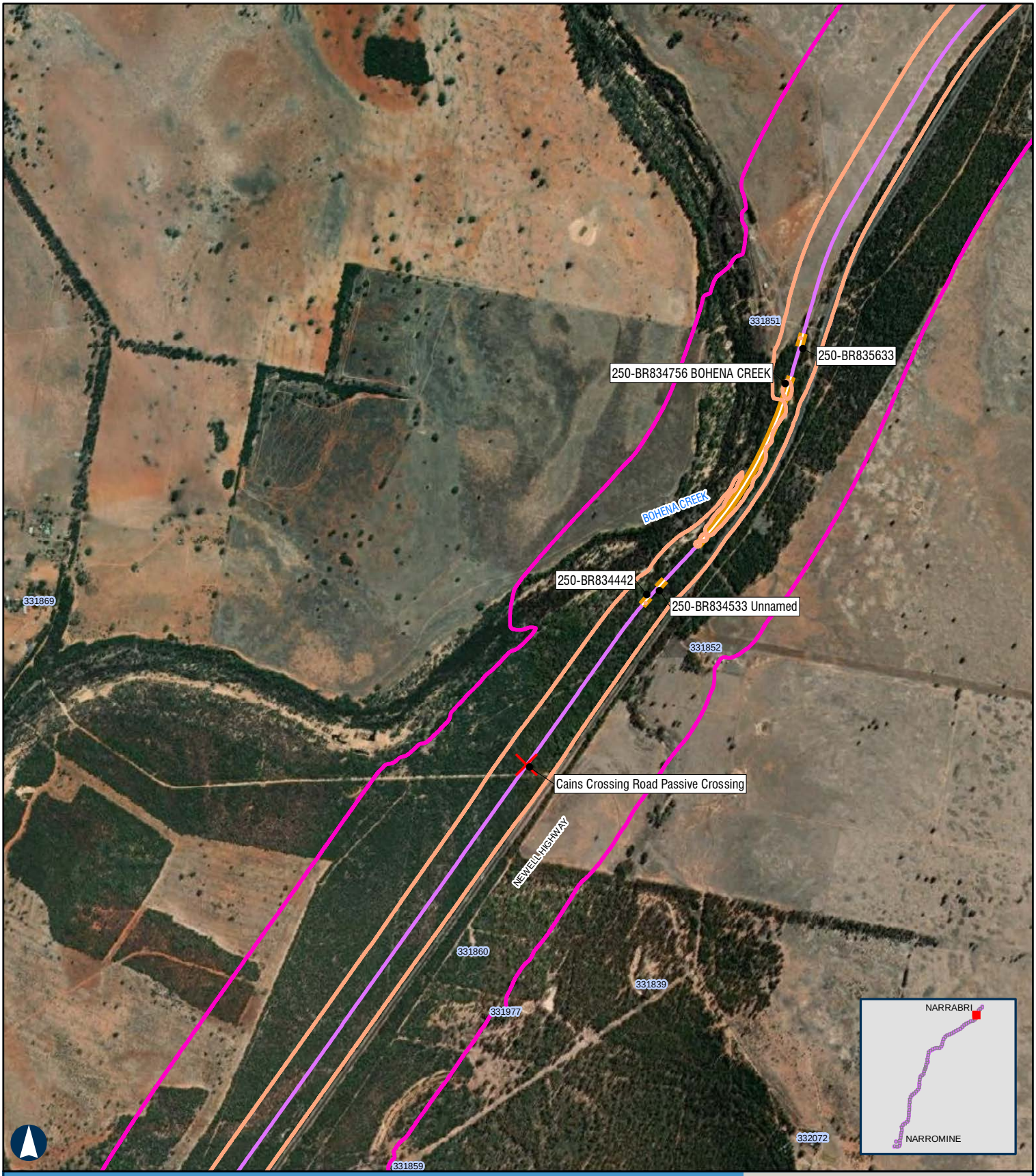
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Year 2040 Daytime Rail Noise Levels

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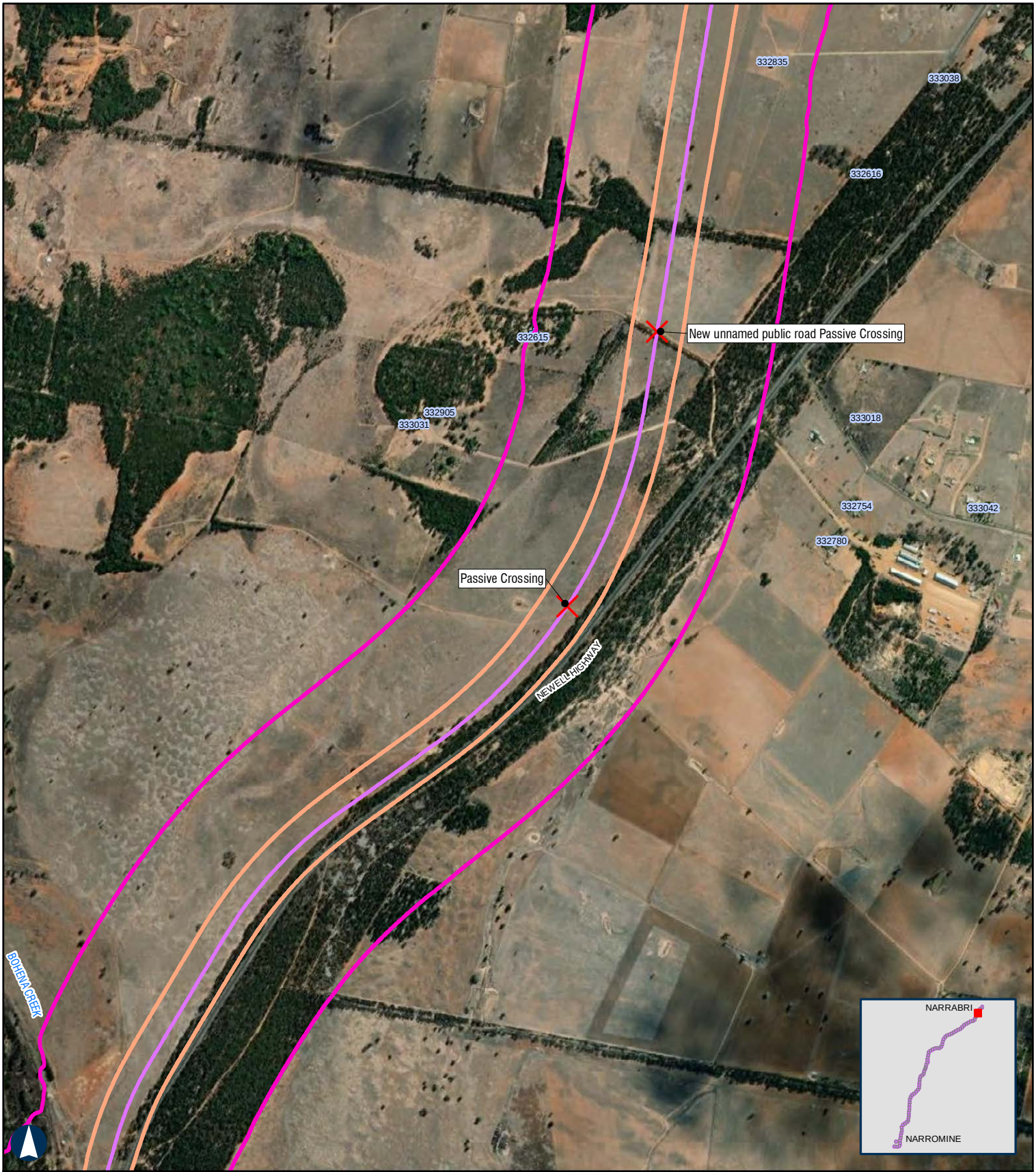
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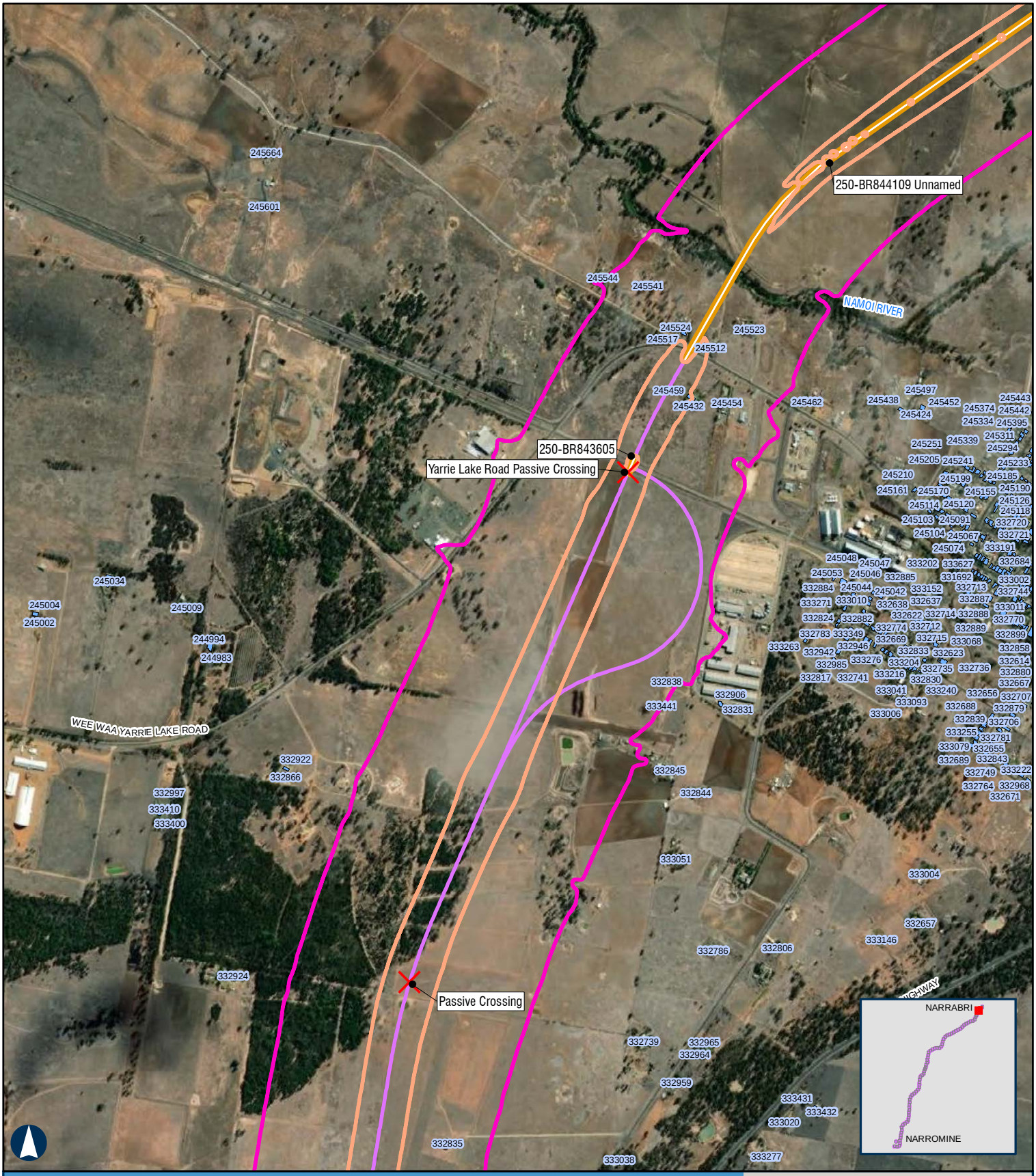
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NARROMINE TO NARRABRI

Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 72 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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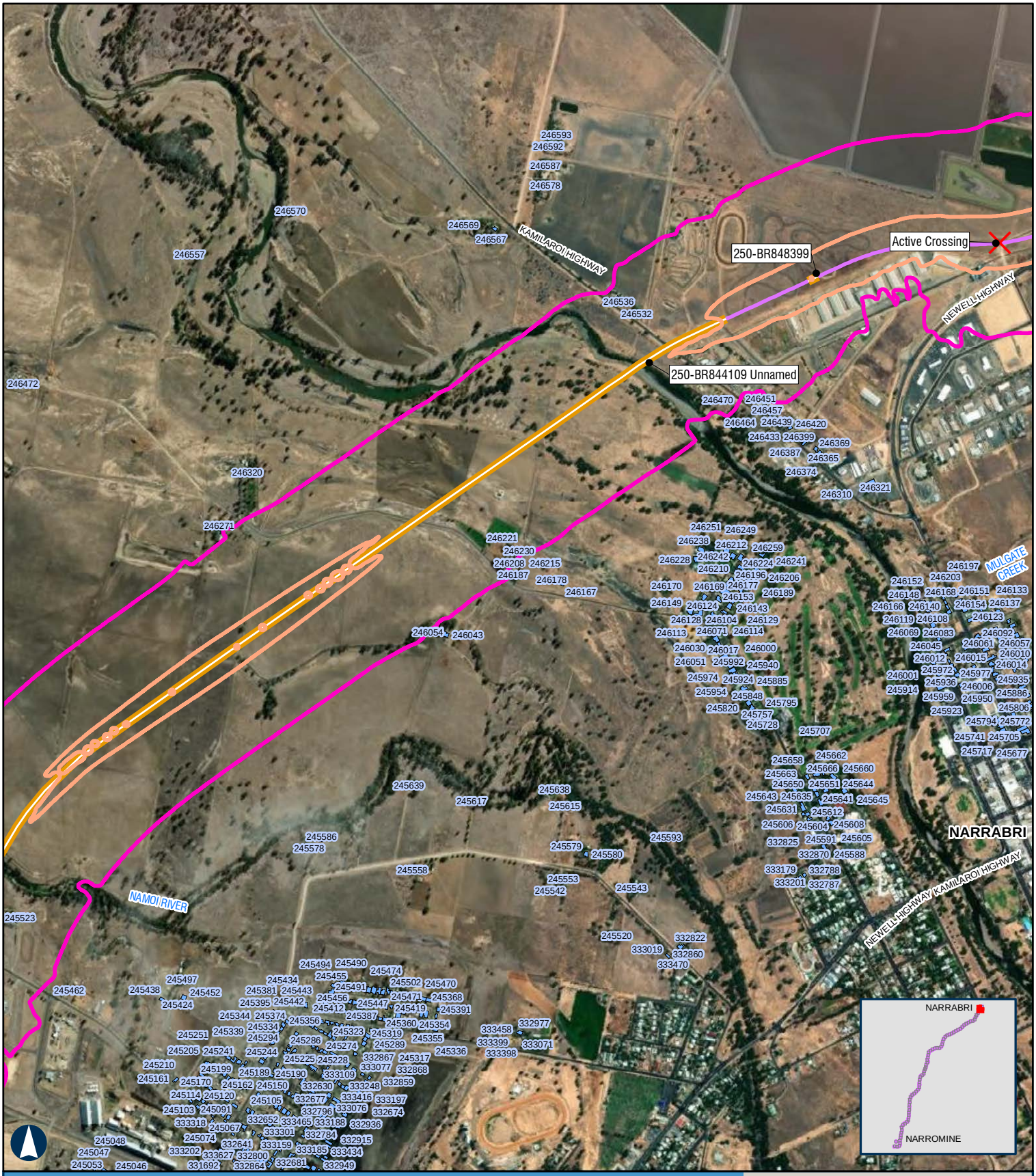
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NARROMINE TO NARRABRI Year 2040 Daytime Rail Noise Levels

APPENDIX E - Map 73 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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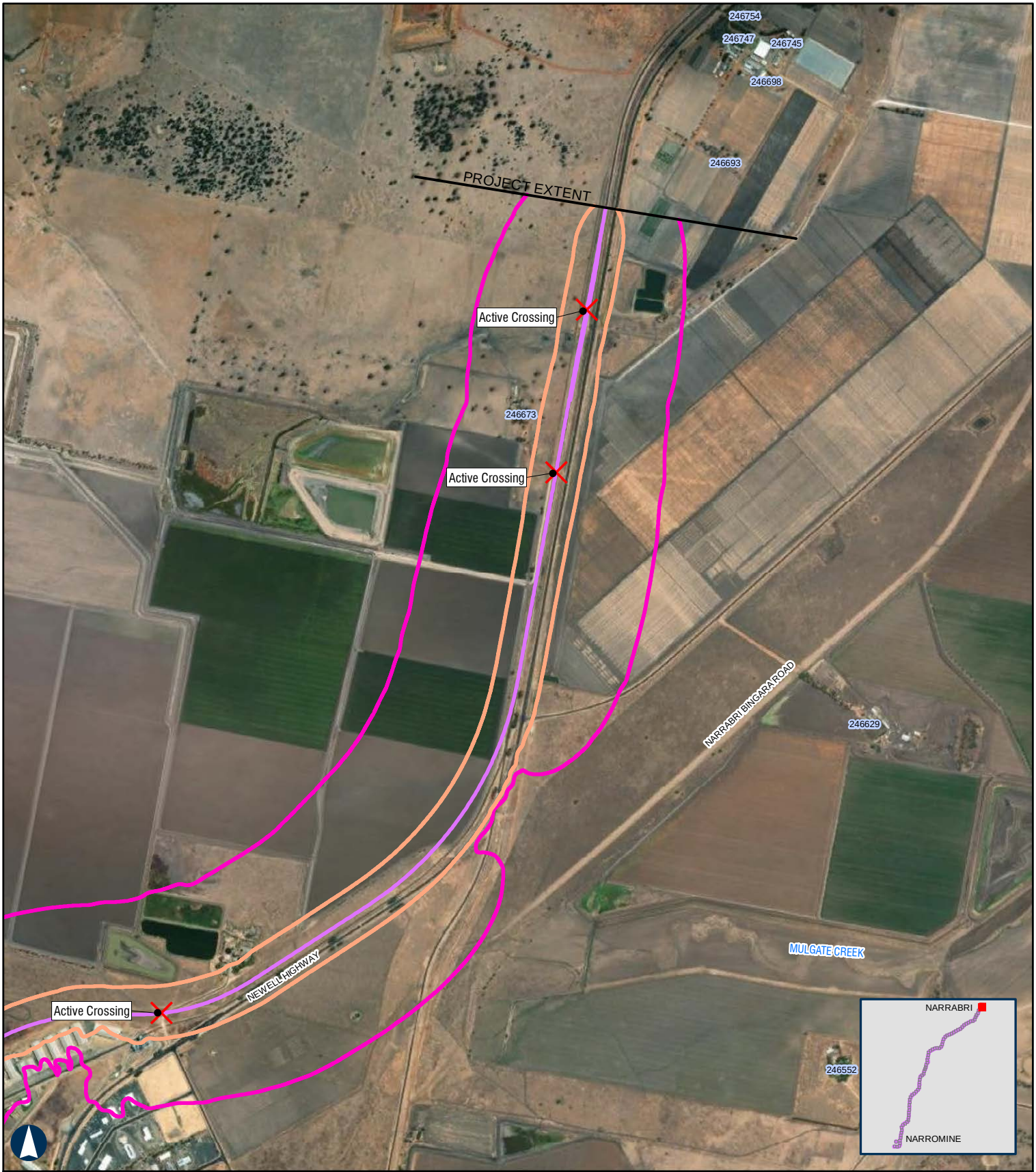
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Year 2040 Daytime Rail Noise Levels

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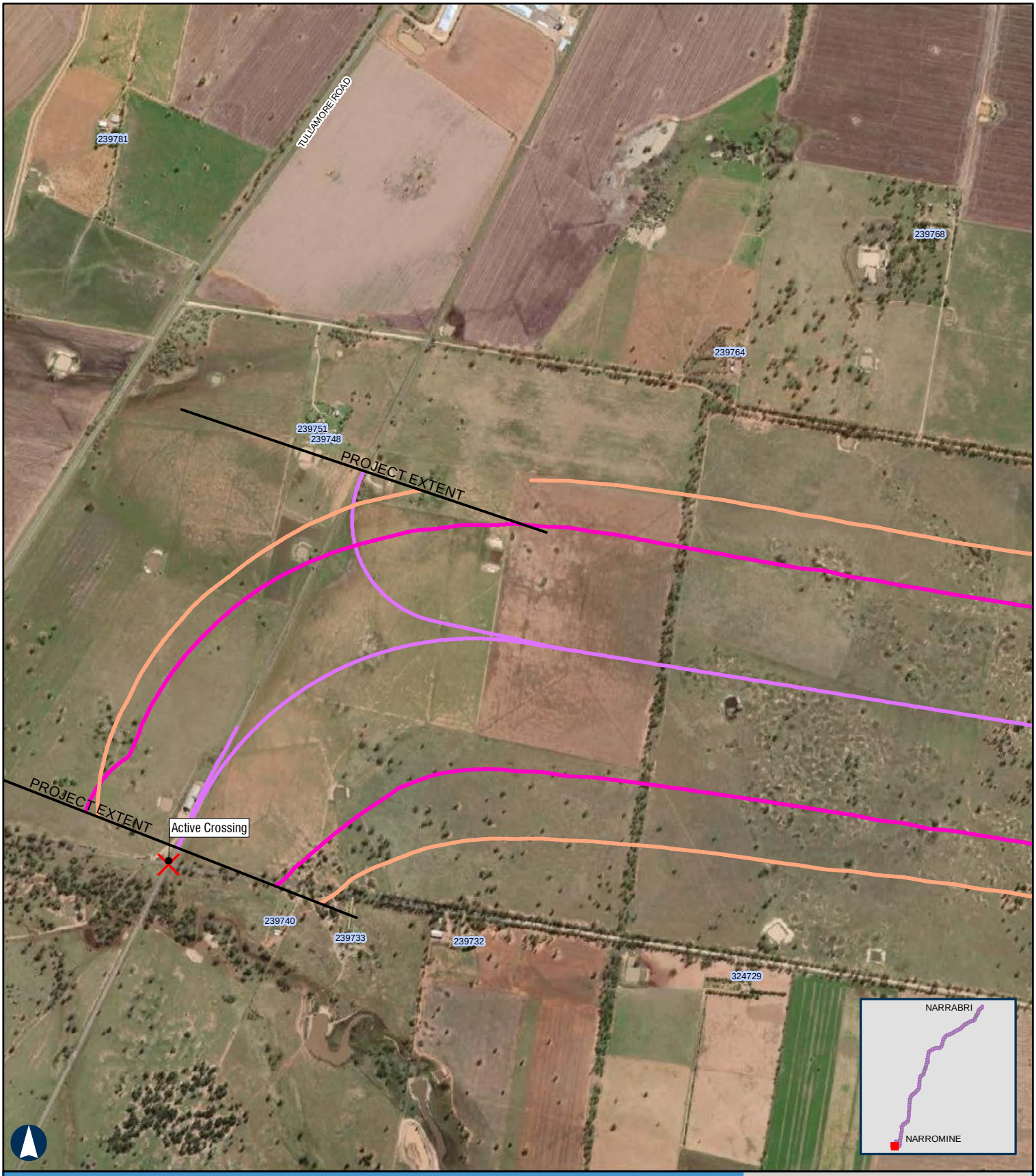
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 75 of 148

500 m

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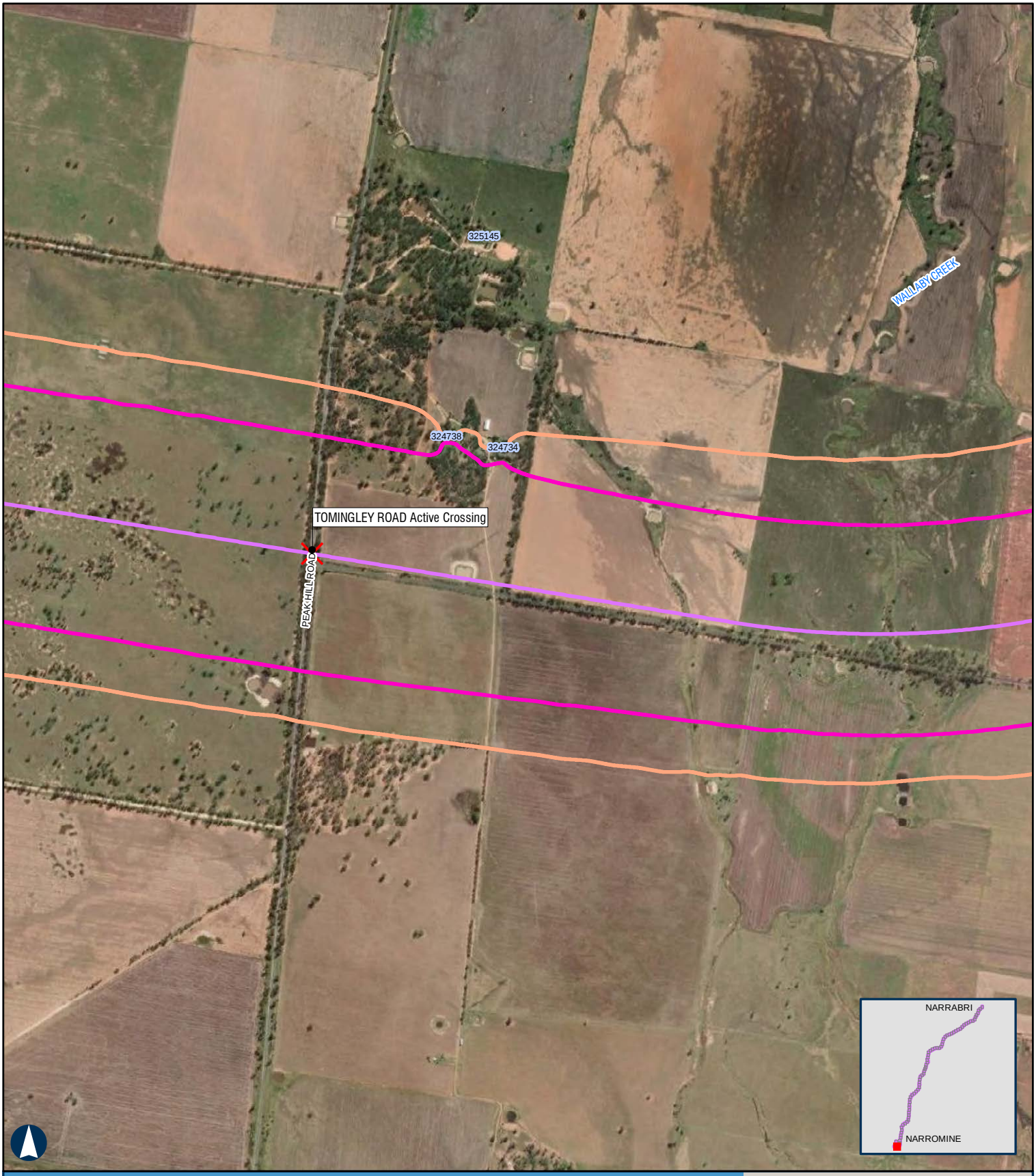
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

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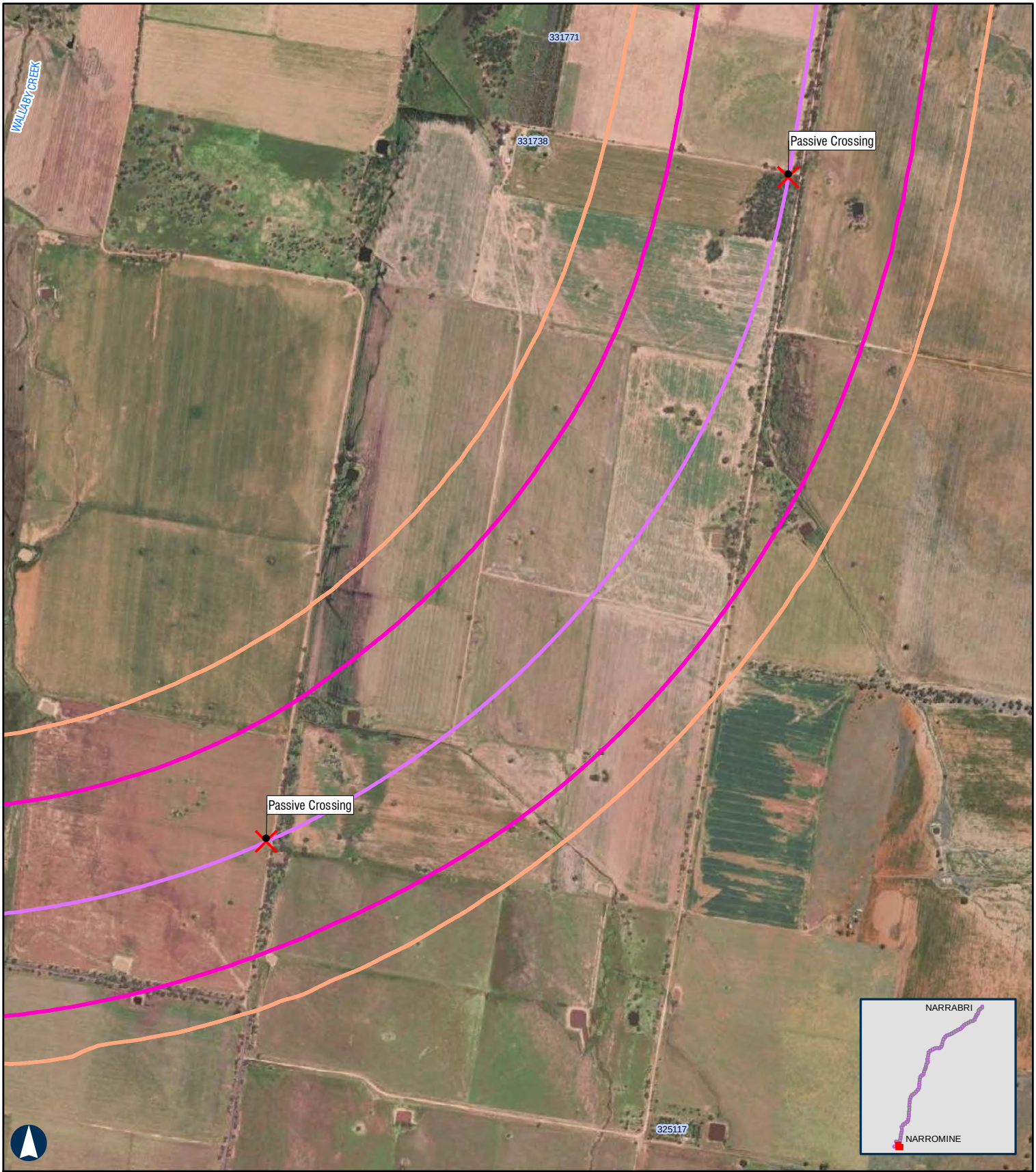
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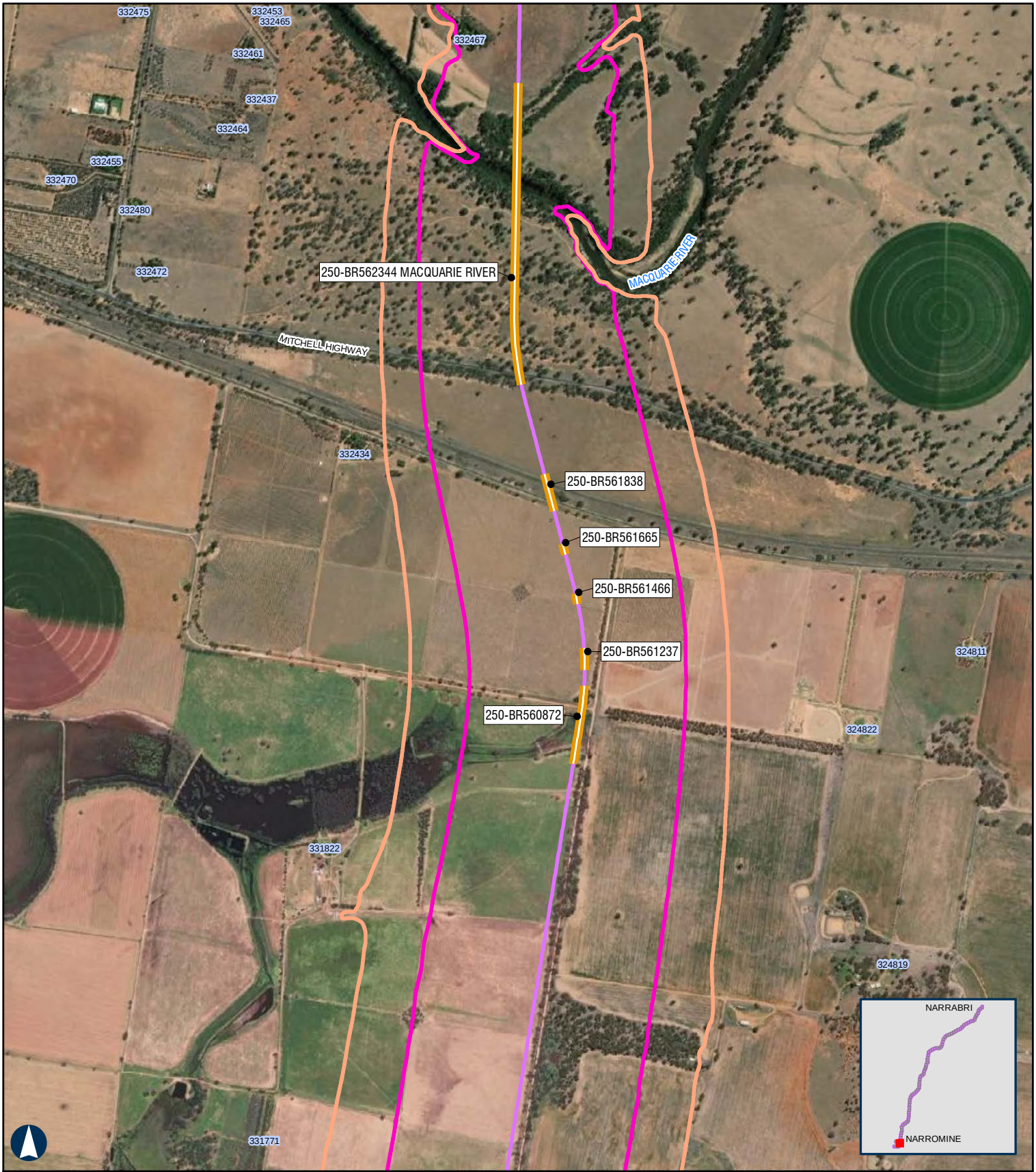
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 78 of 148

500 m

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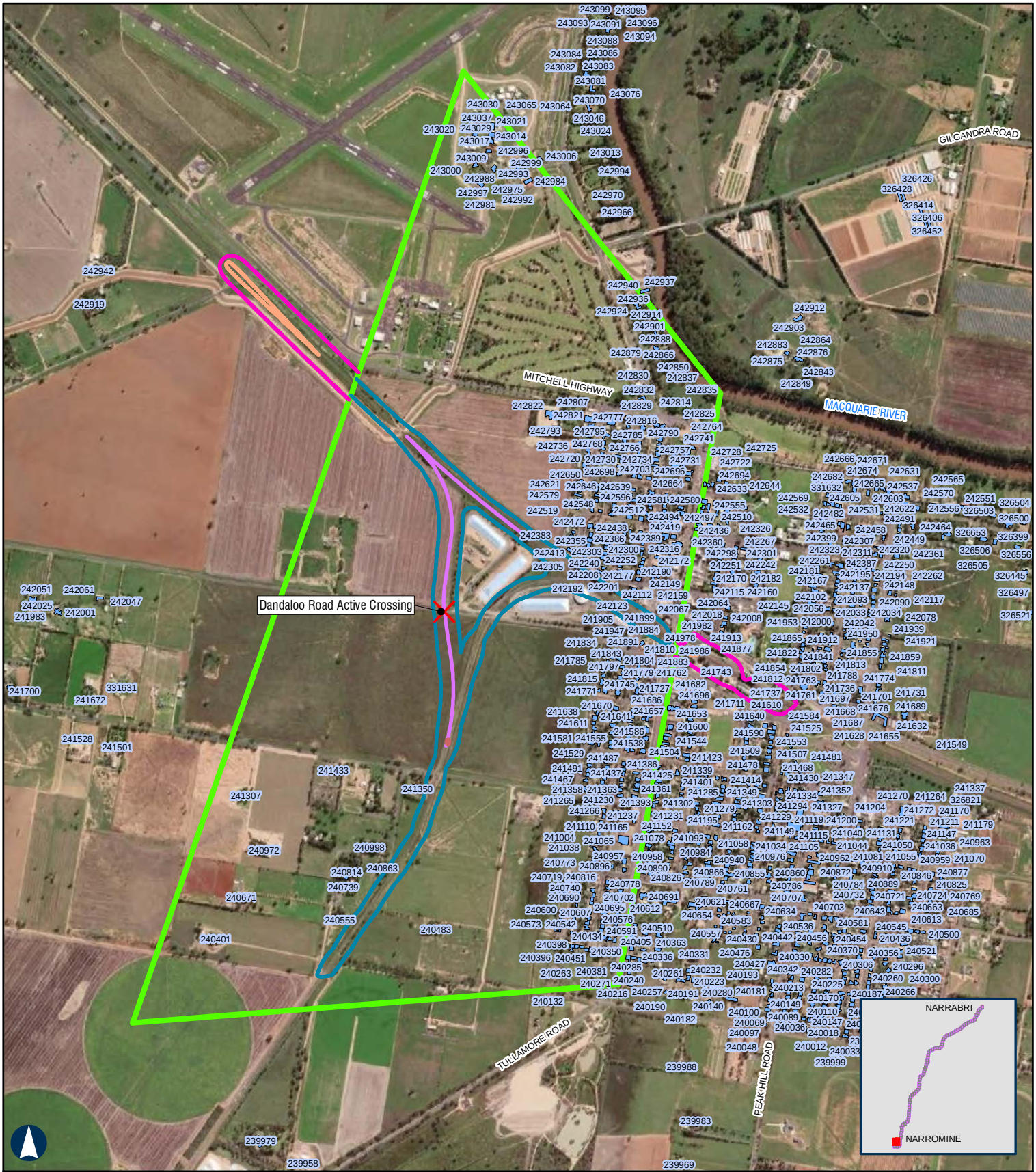
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 79 of 148

500 m

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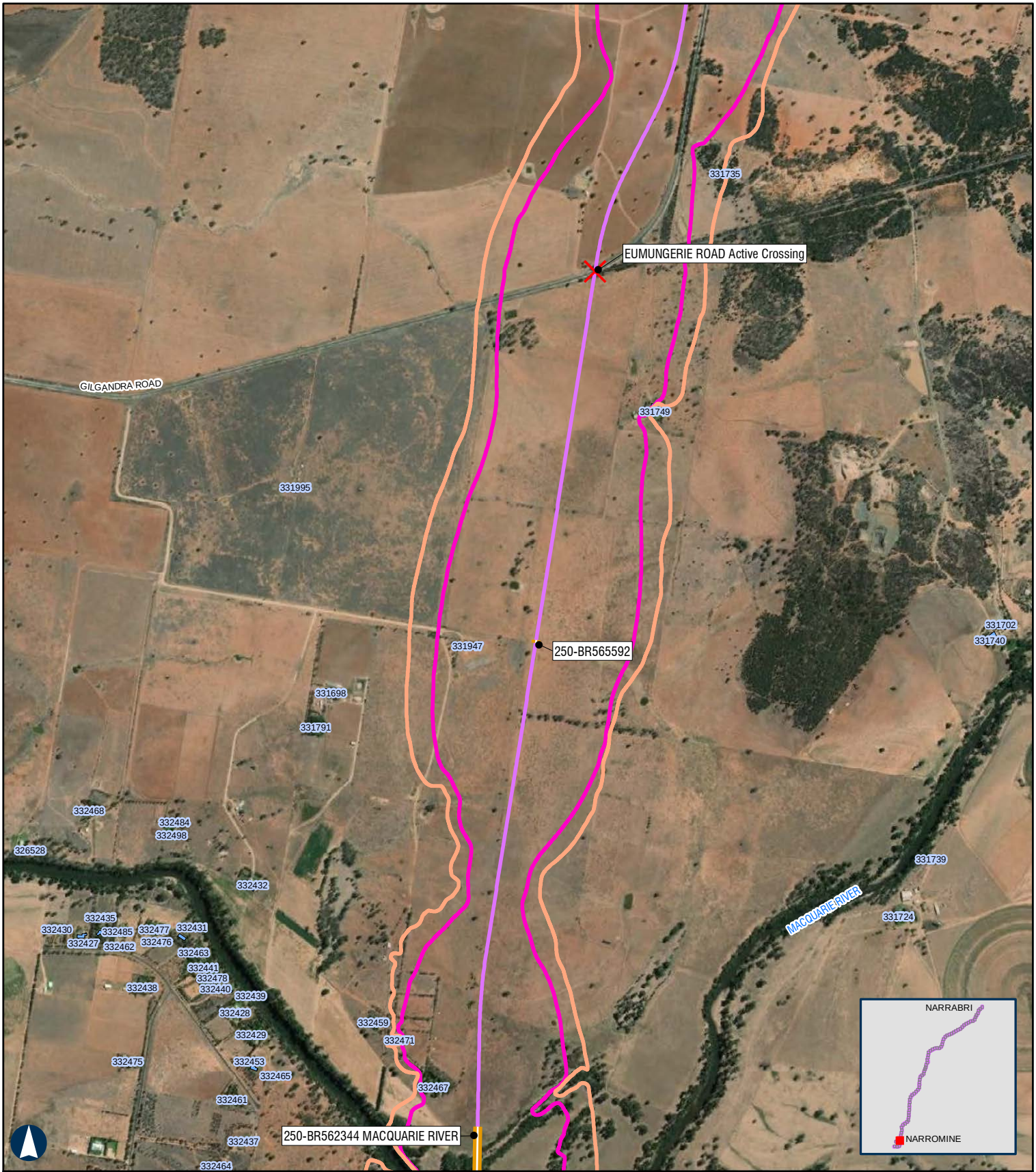
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 80 of 148

500 m

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Paper: A4 Scale: 1:22,000
Date: 01-Feb-2022
Author: JG

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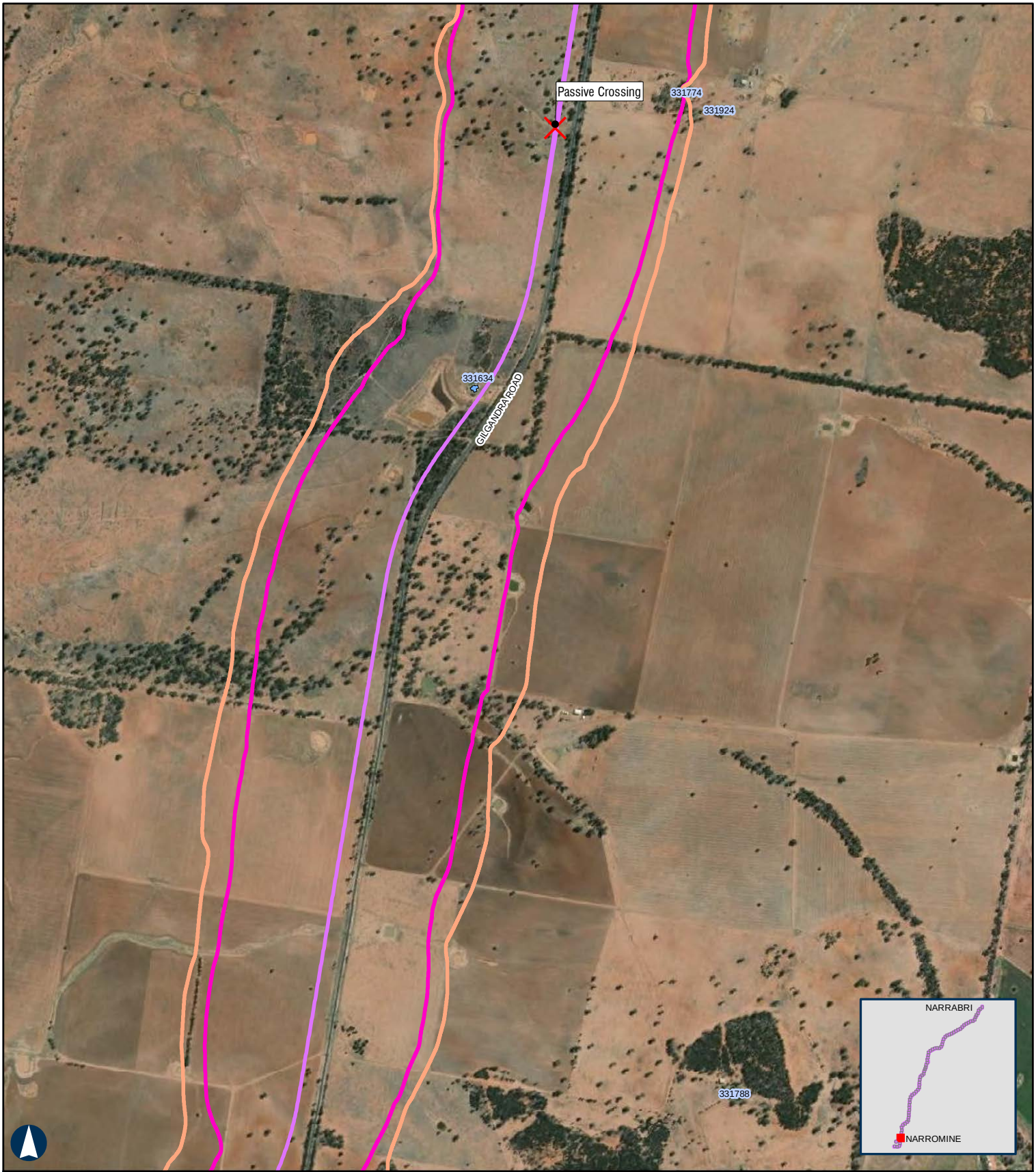
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

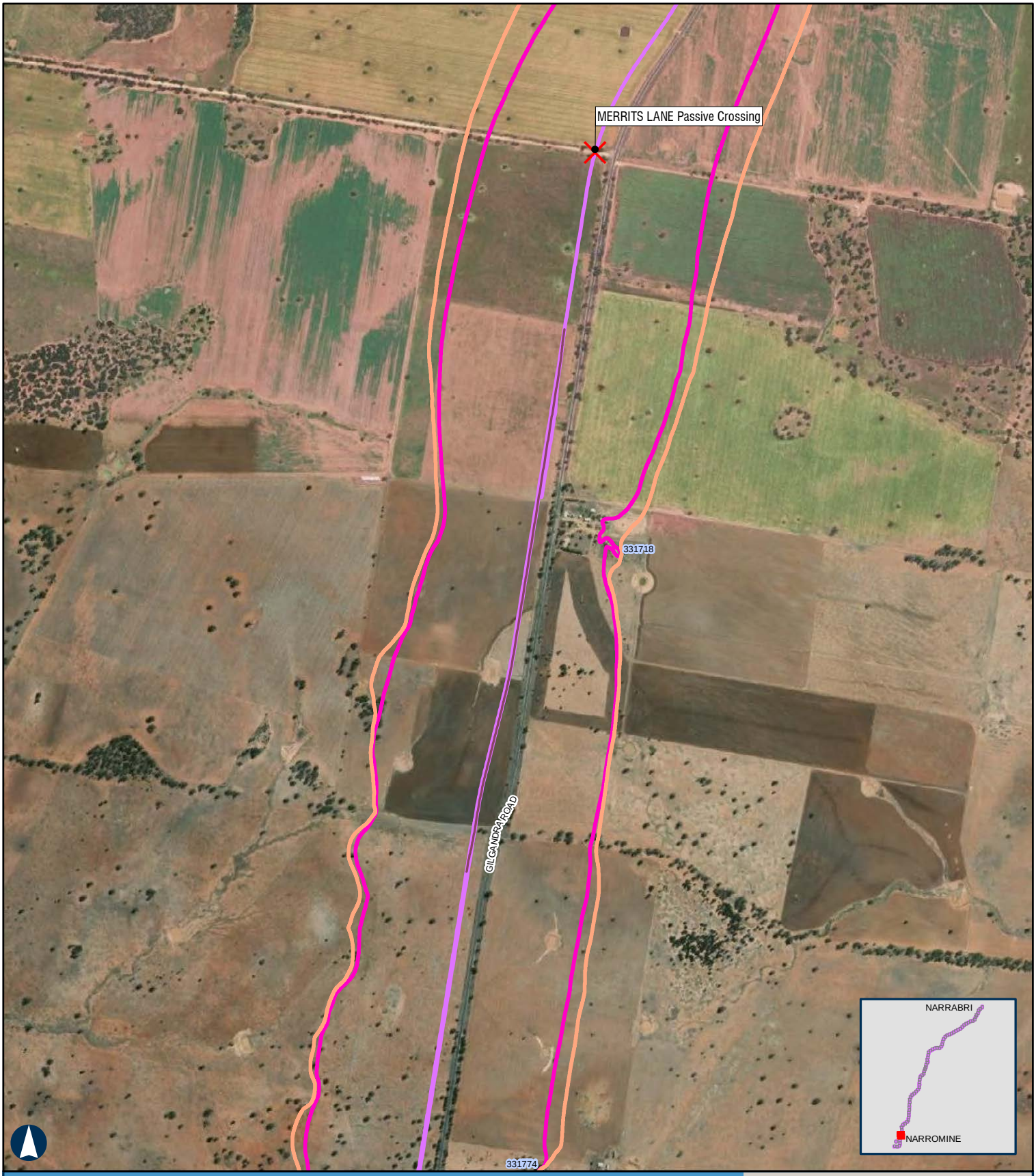
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
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Year 2040 Night-time Rail Noise Levels

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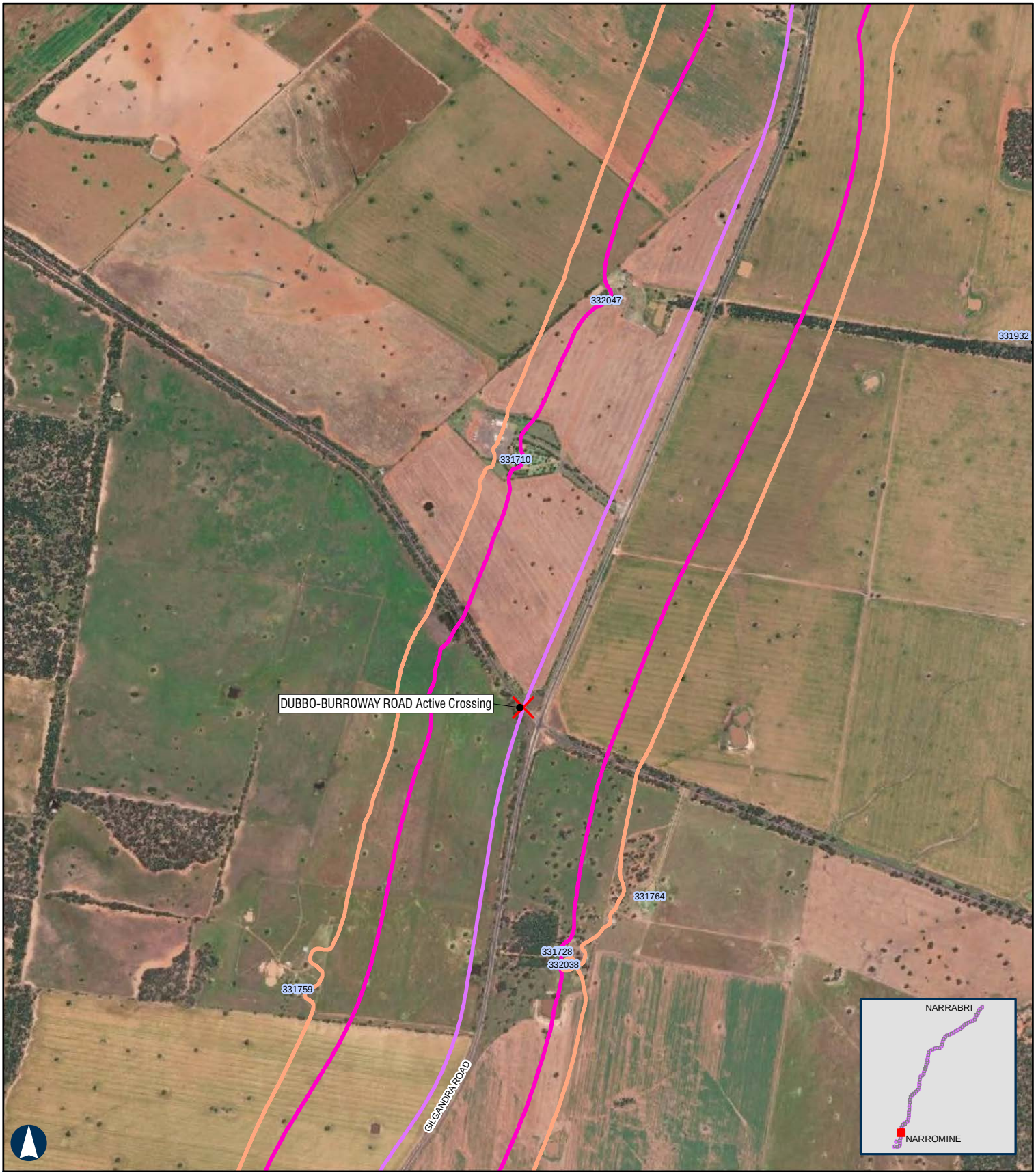
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 83 of 148

500 m

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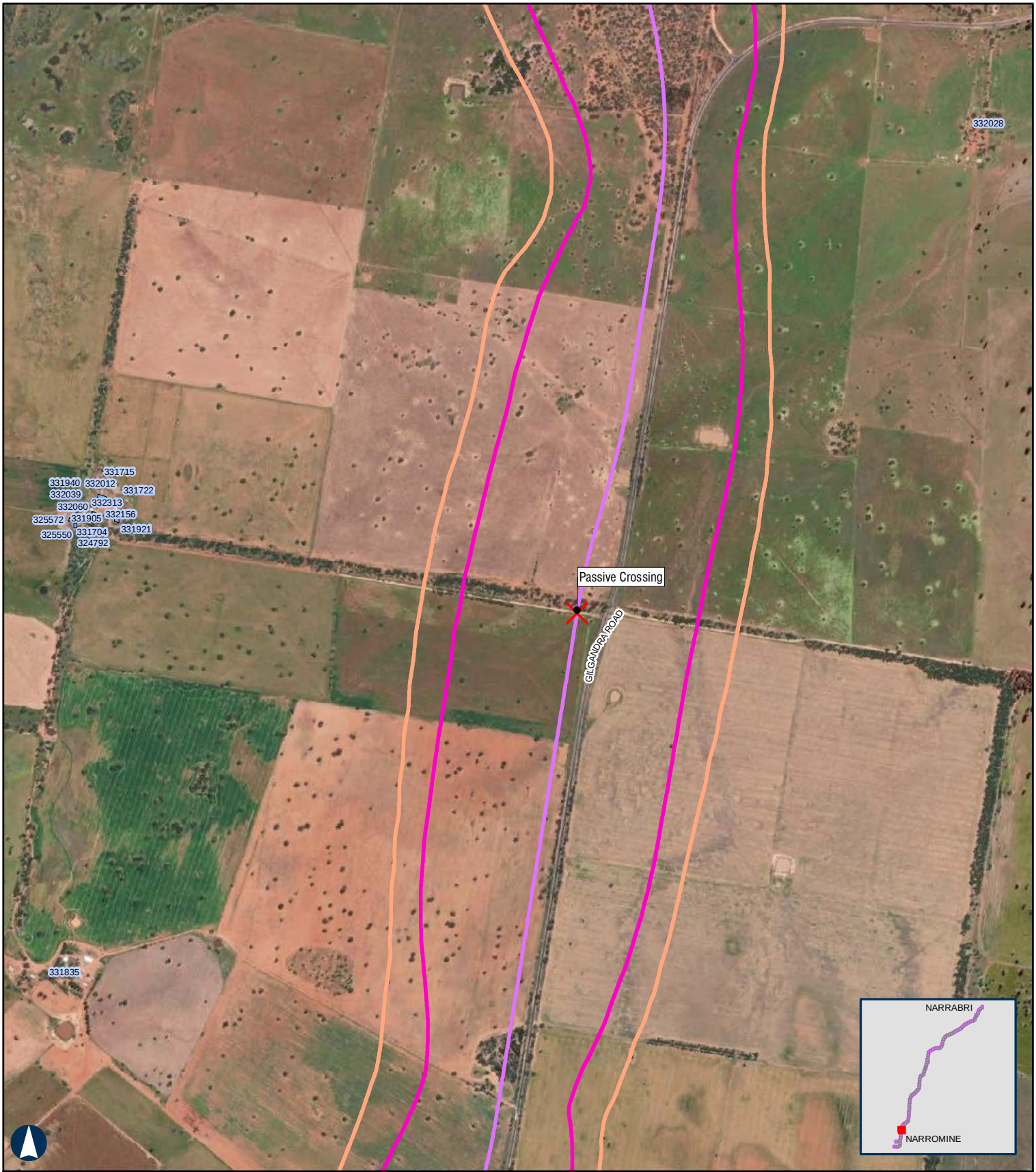
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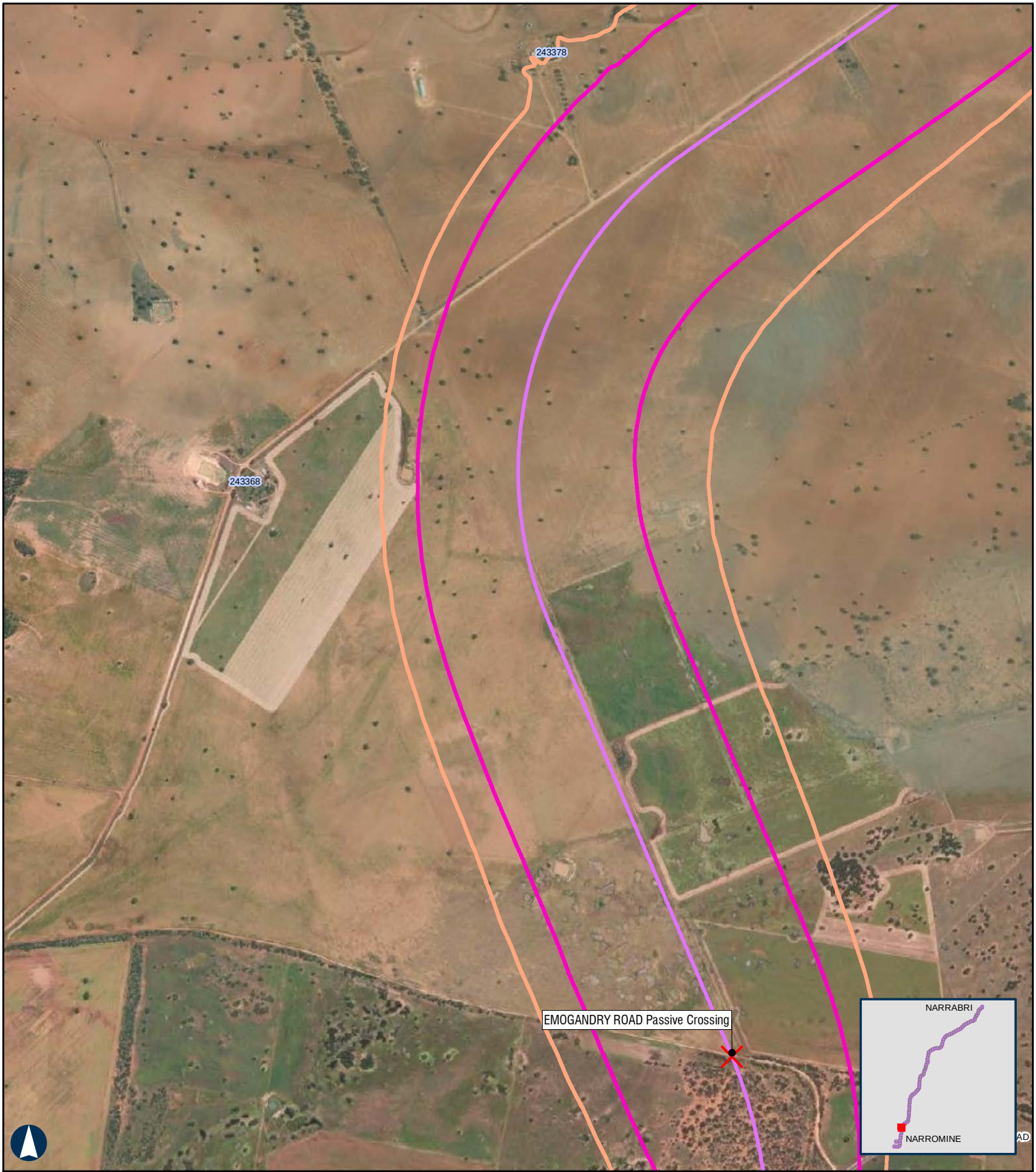
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 85 of 148

500 m

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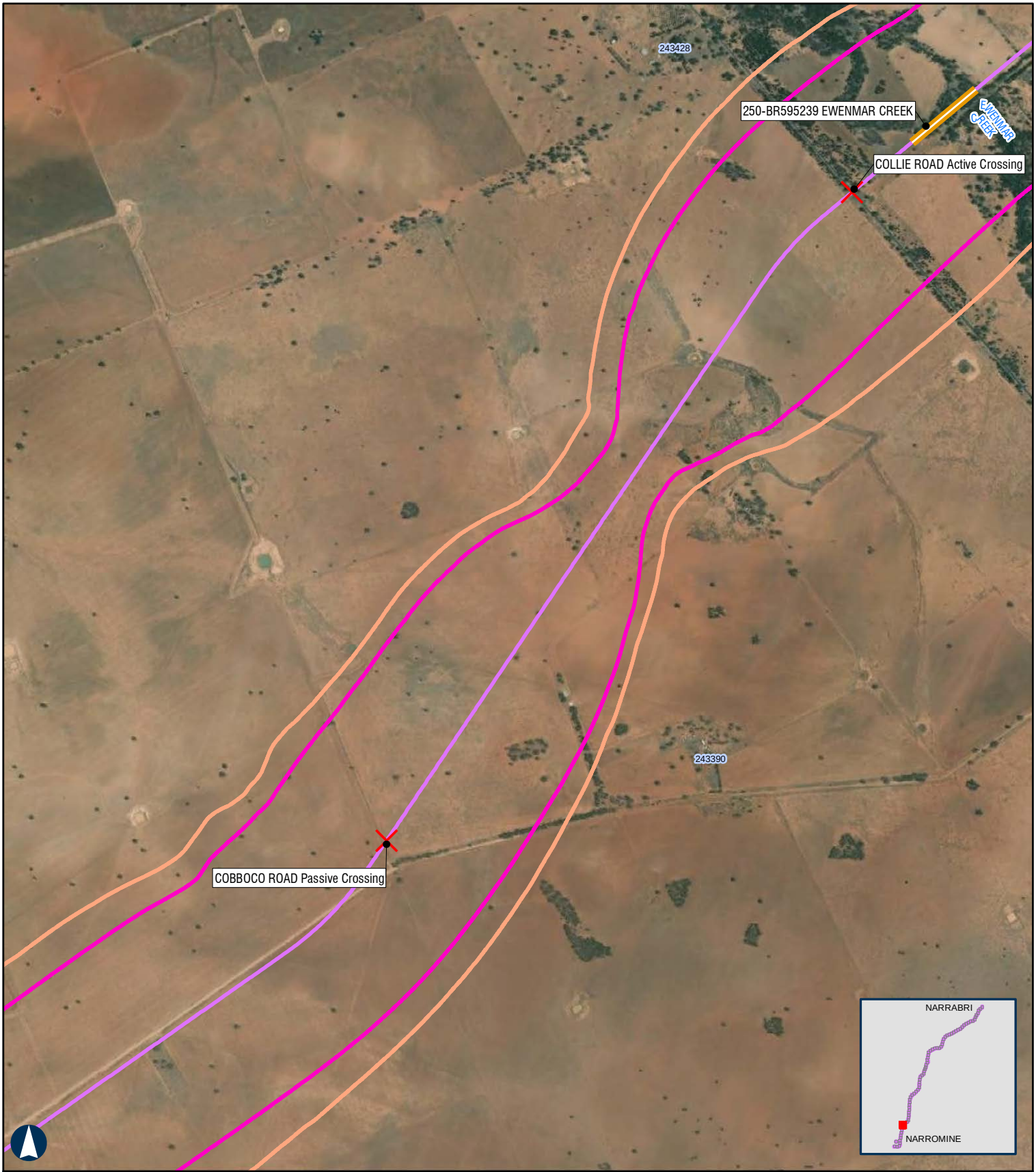
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 86 of 148

500 m

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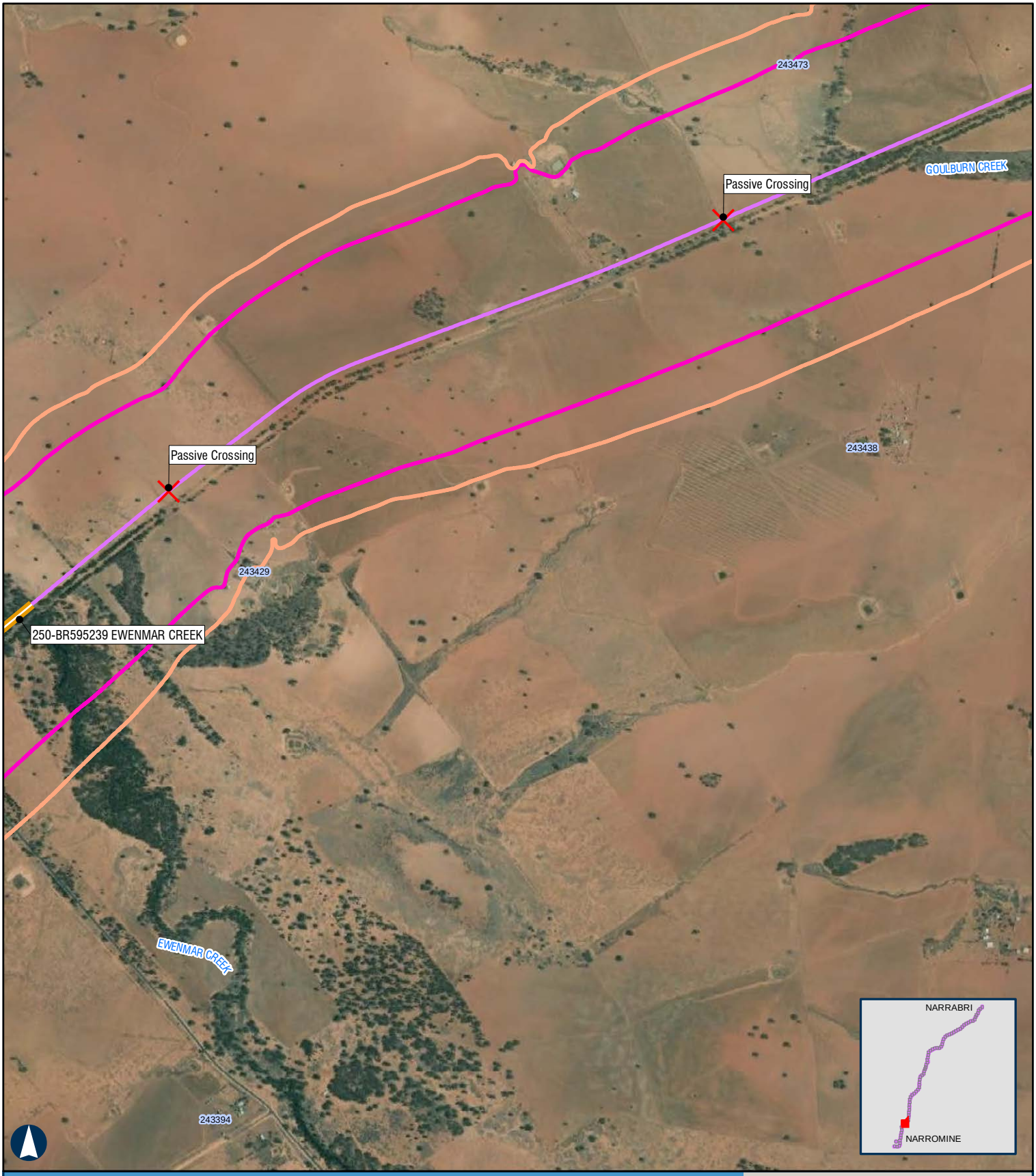
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 87 of 148

500 m

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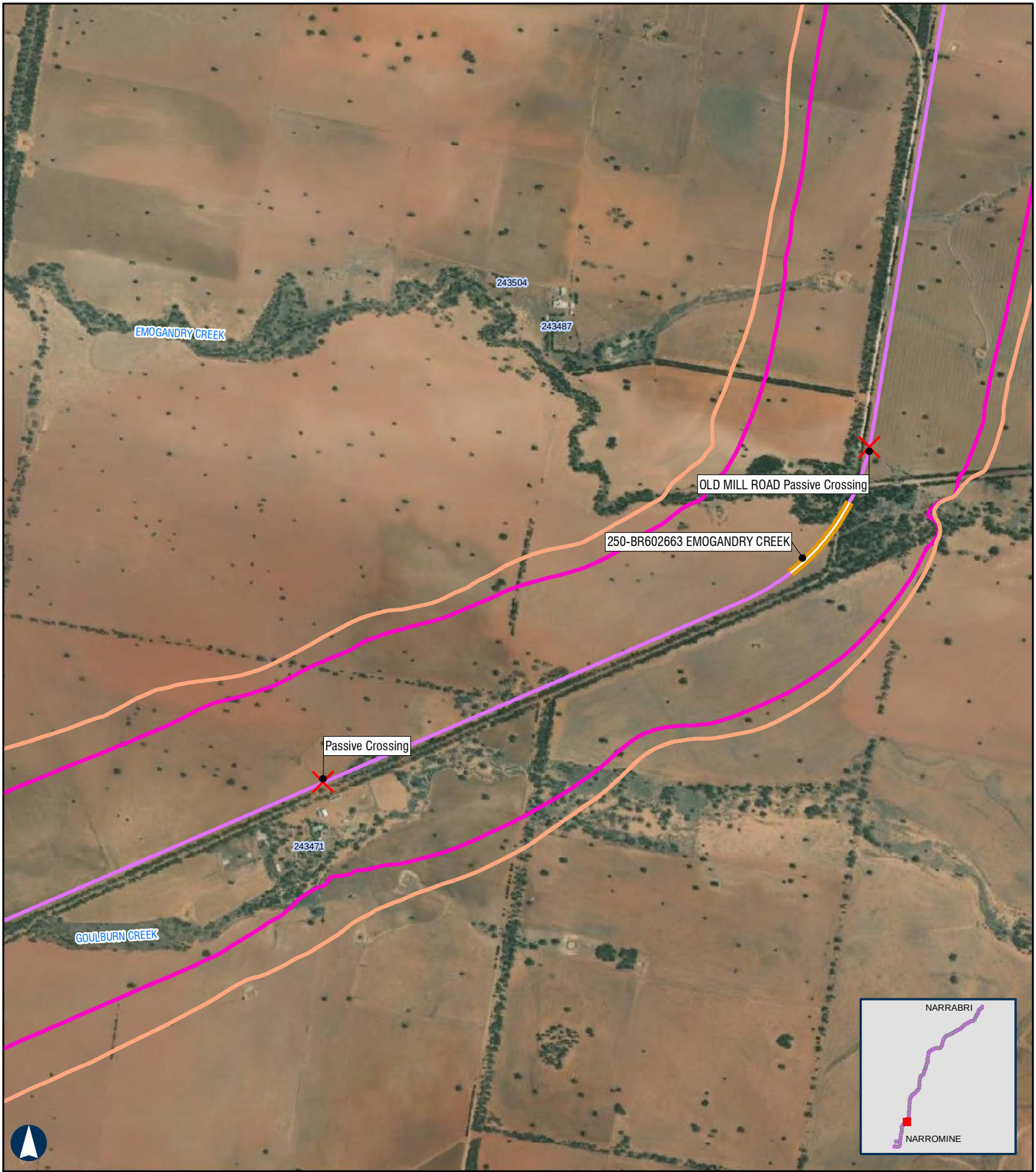
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 88 of 148

500 m

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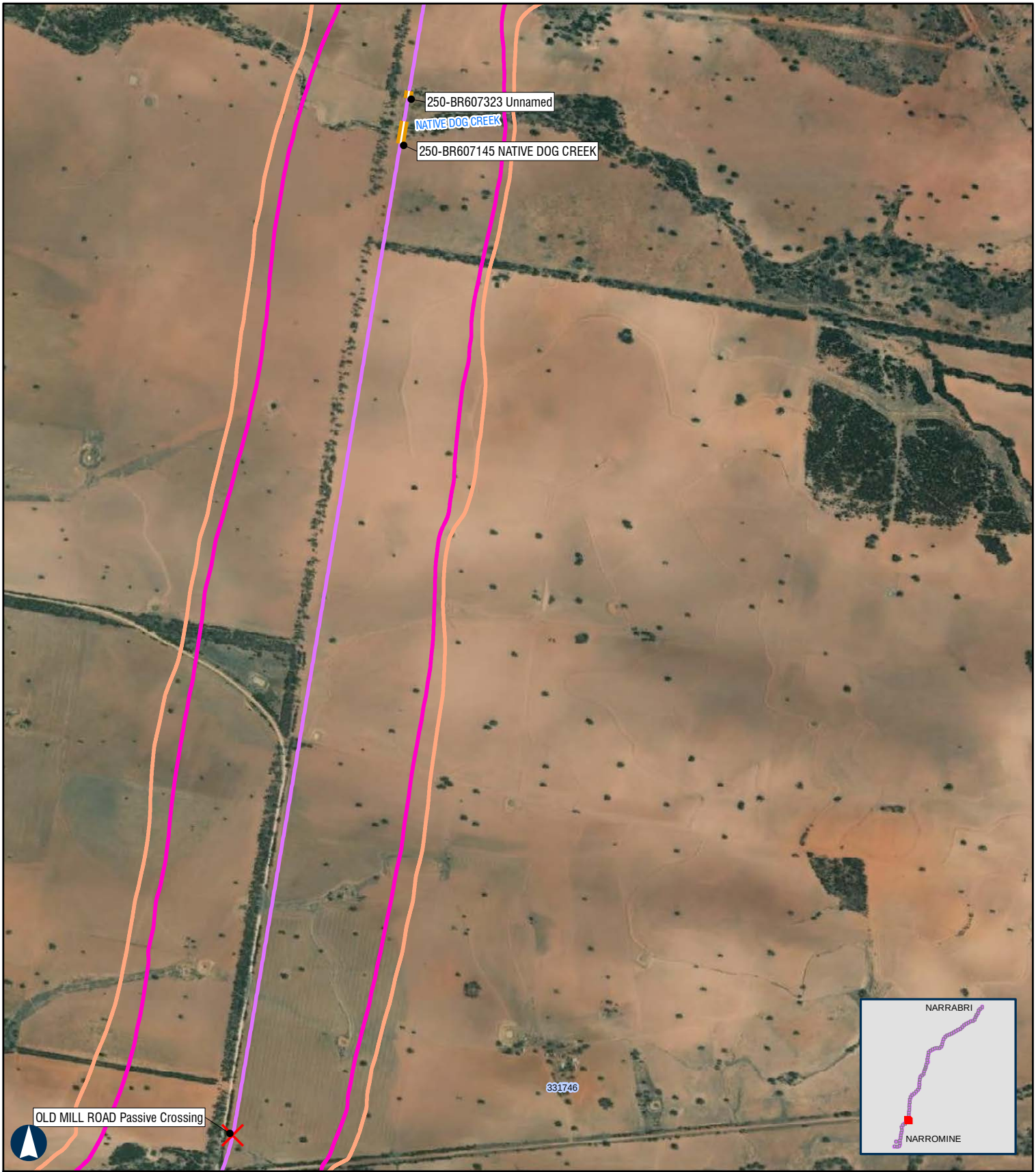
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 89 of 148

500 m

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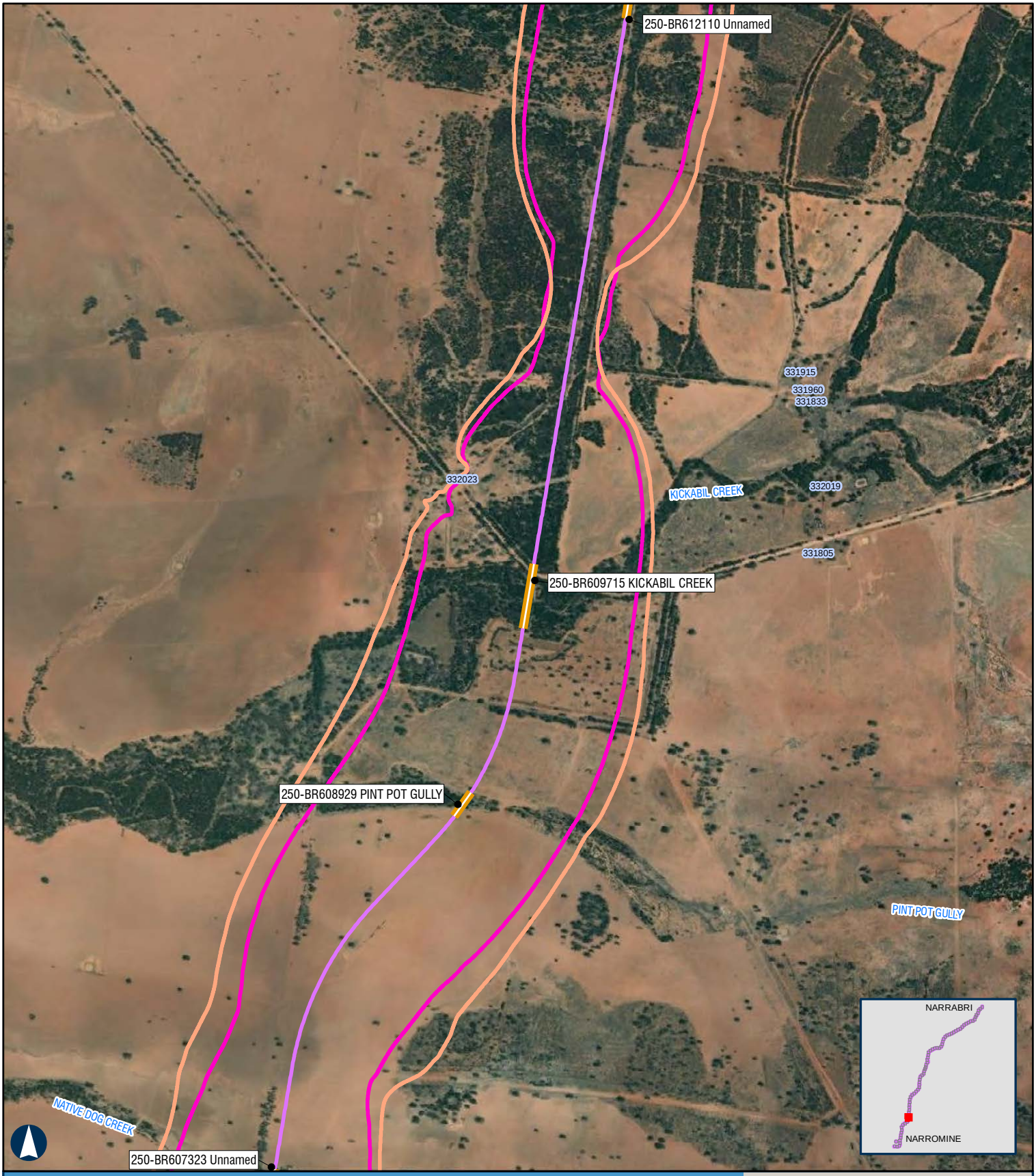
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 90 of 148

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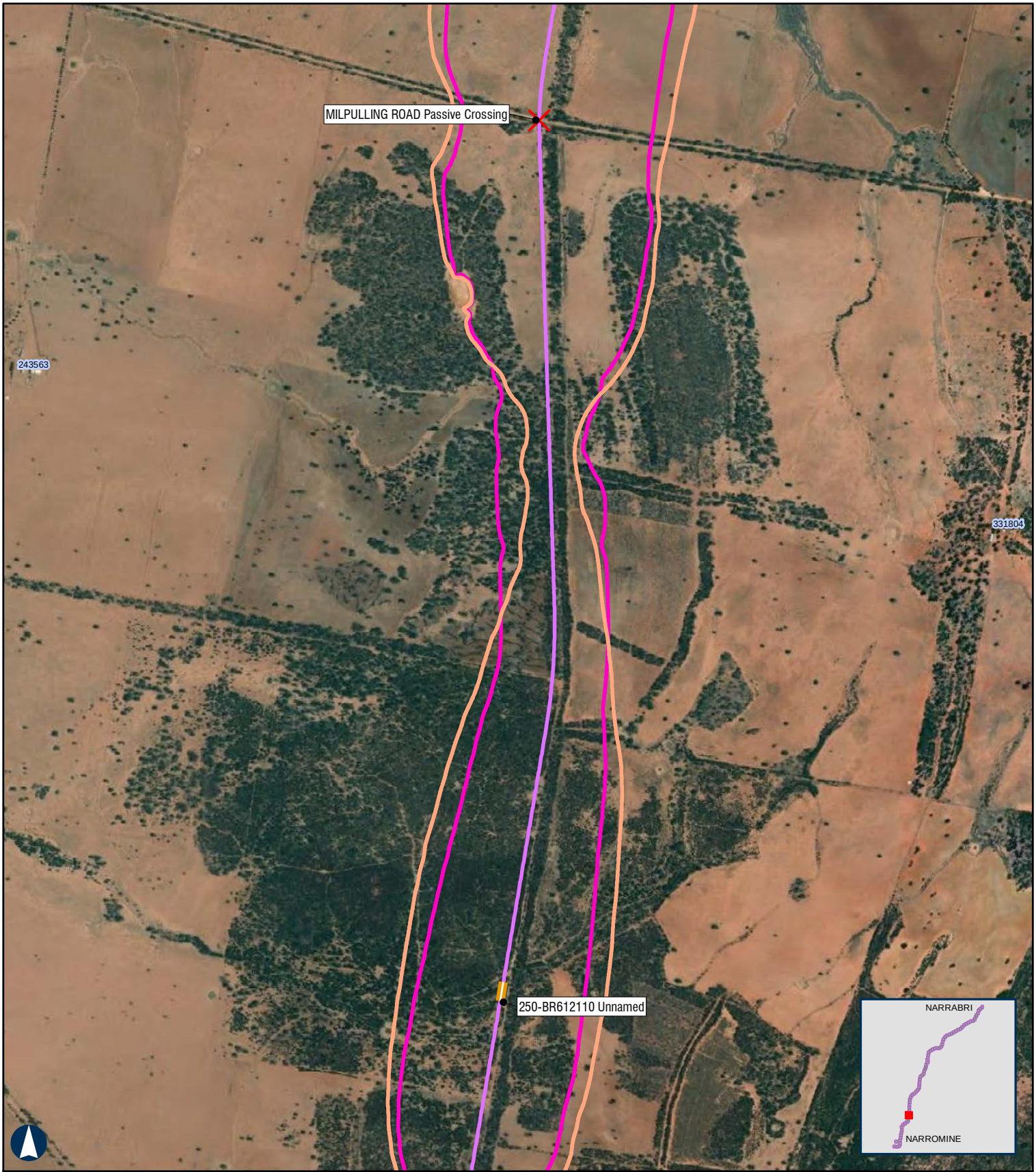
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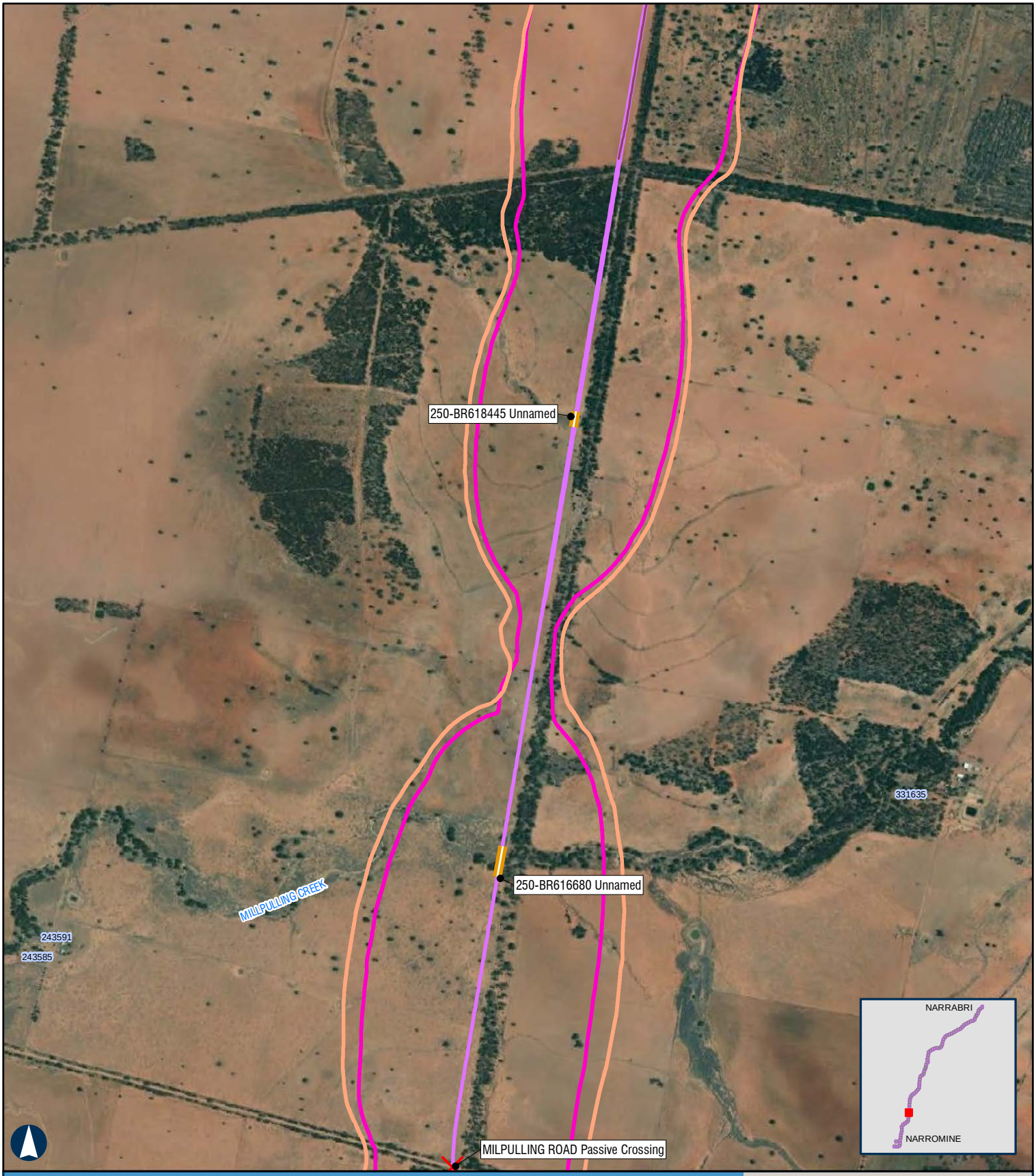
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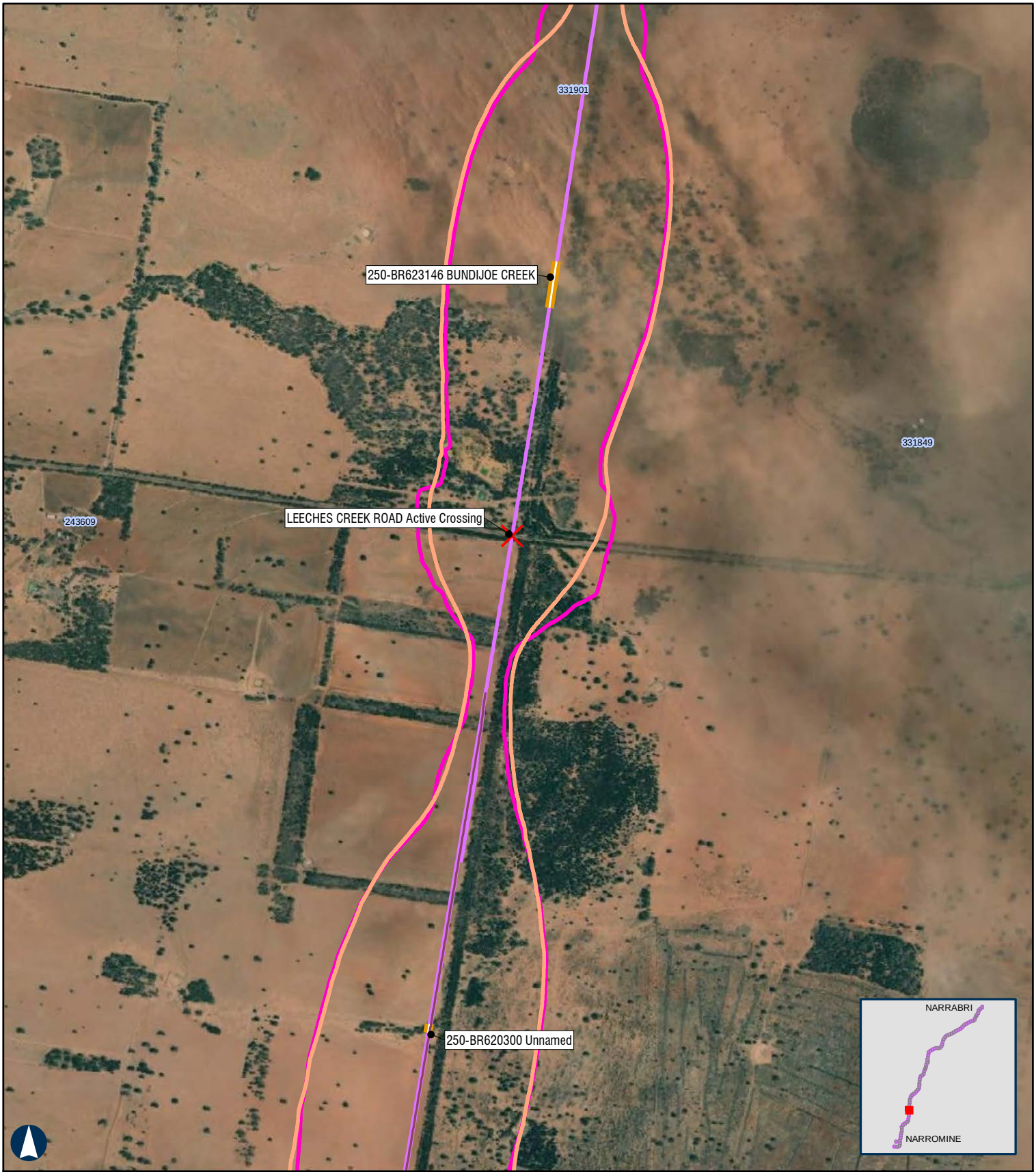
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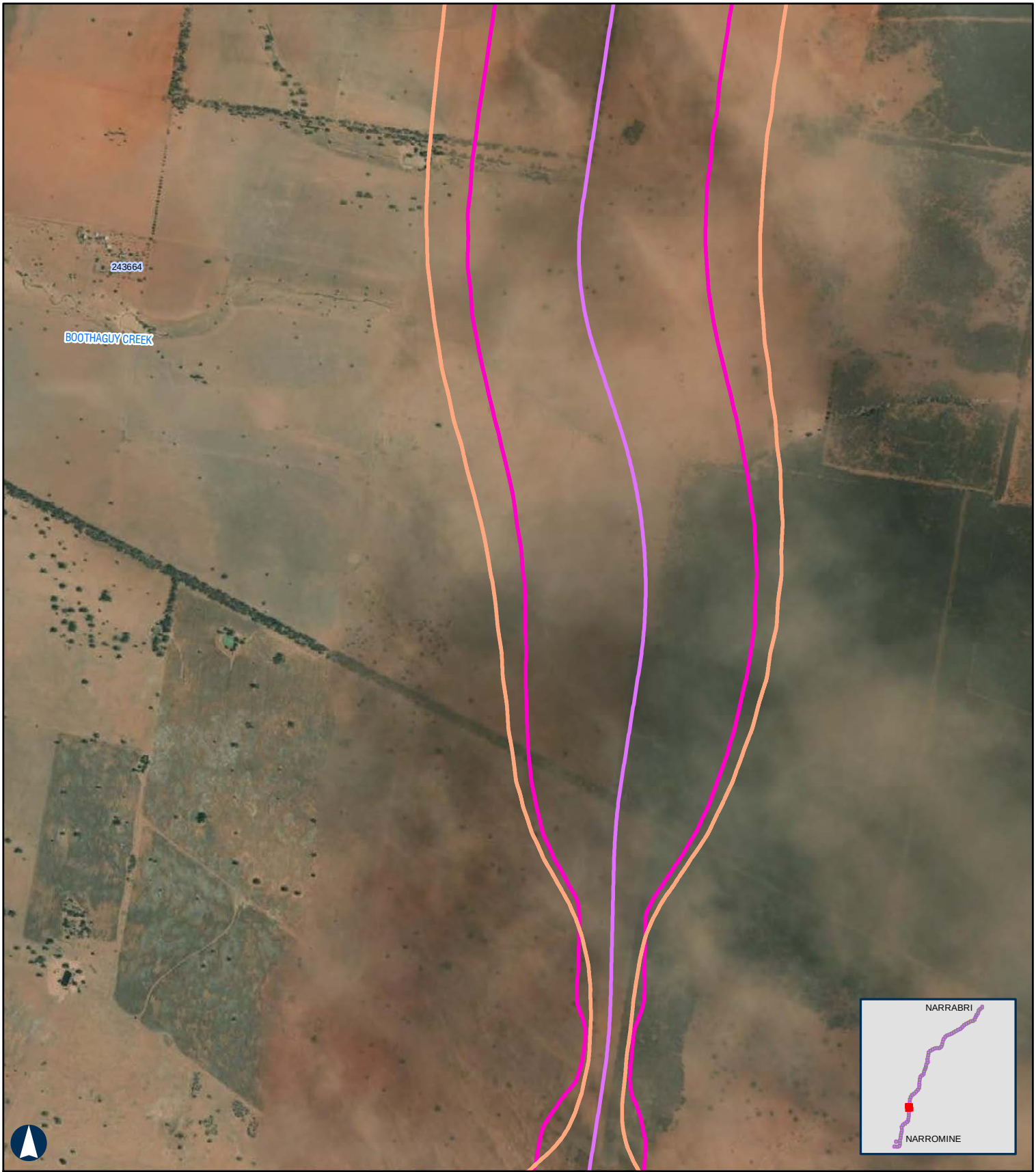
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

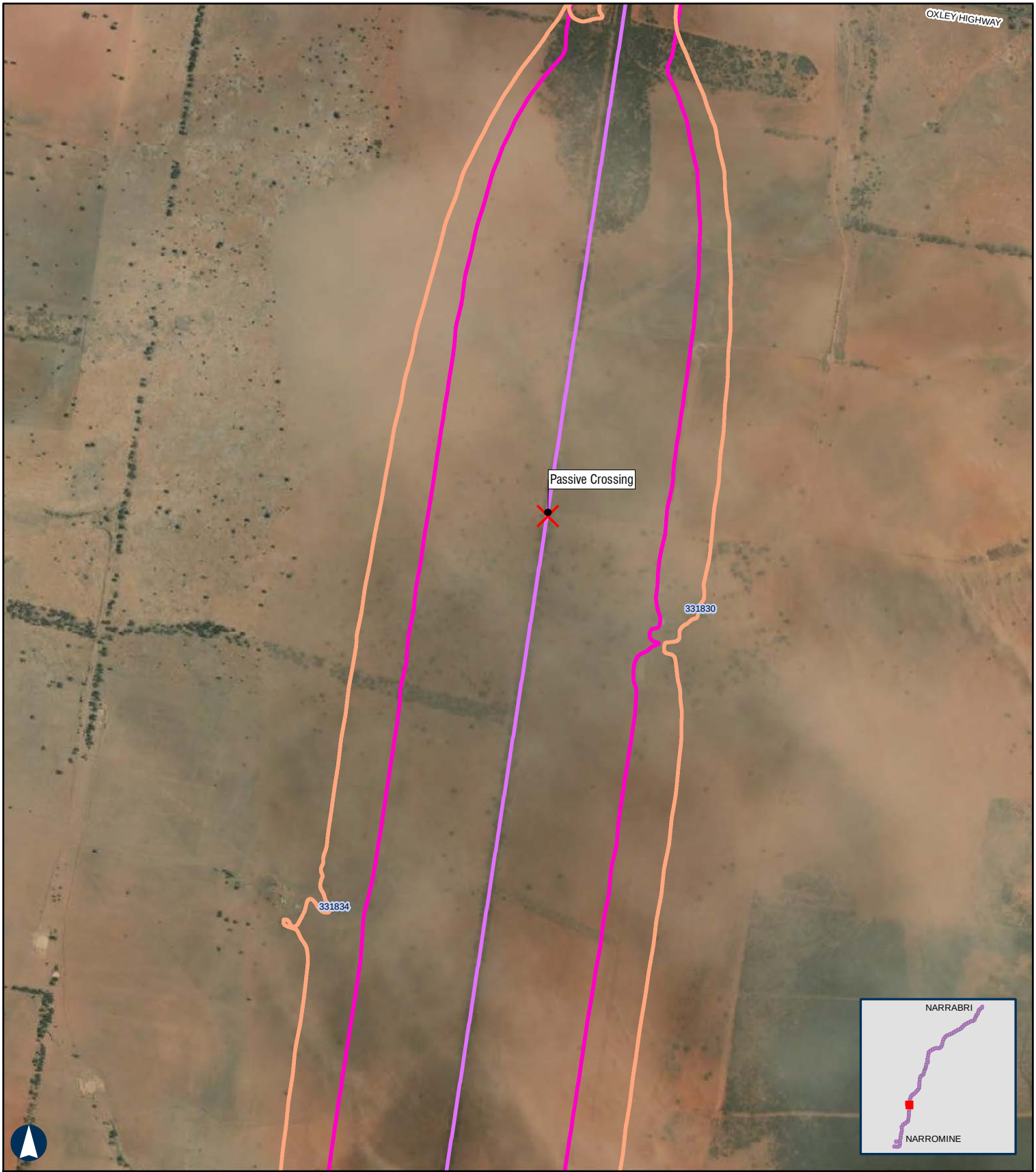
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 95 of 148

500 m

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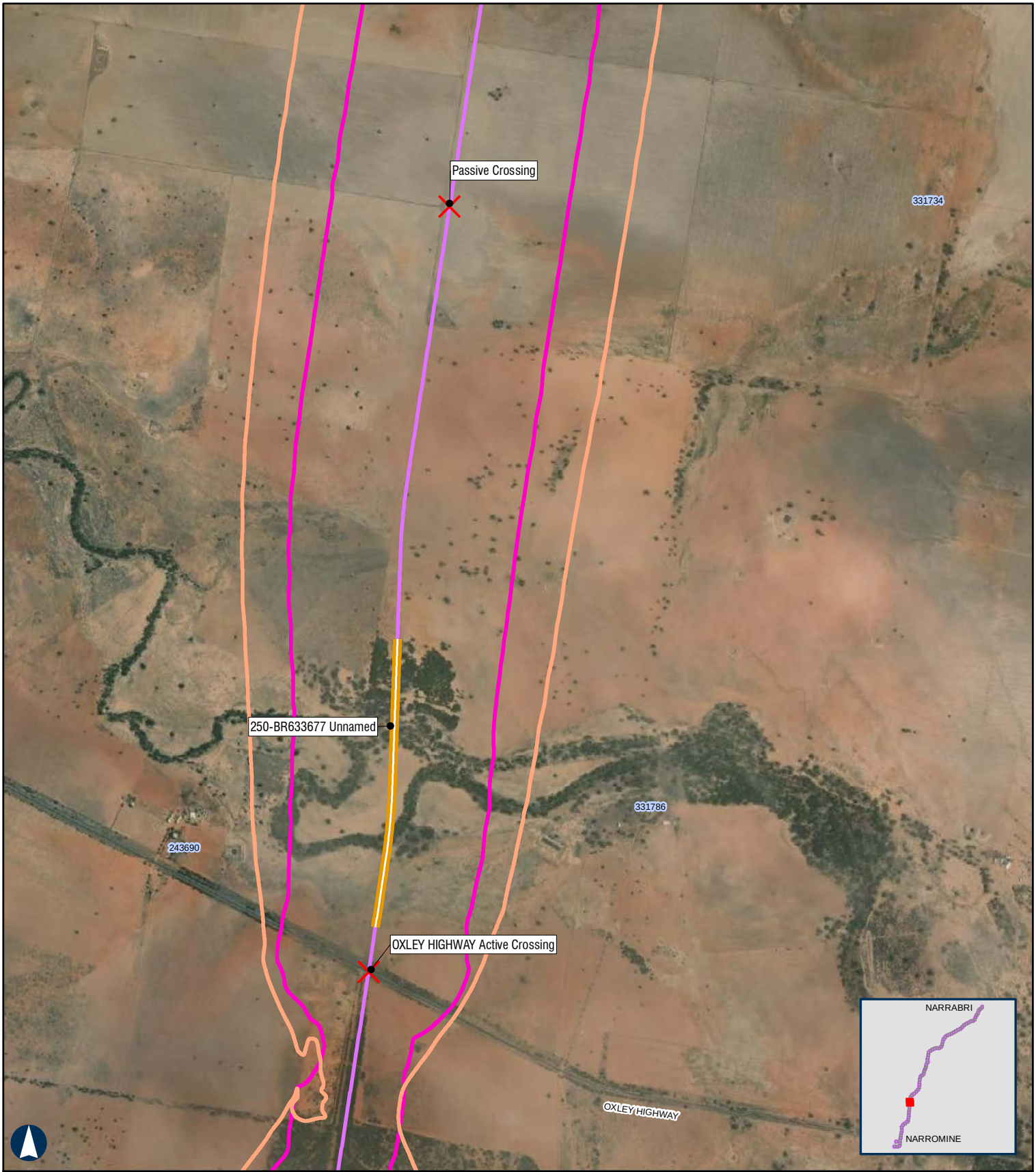
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 96 of 148

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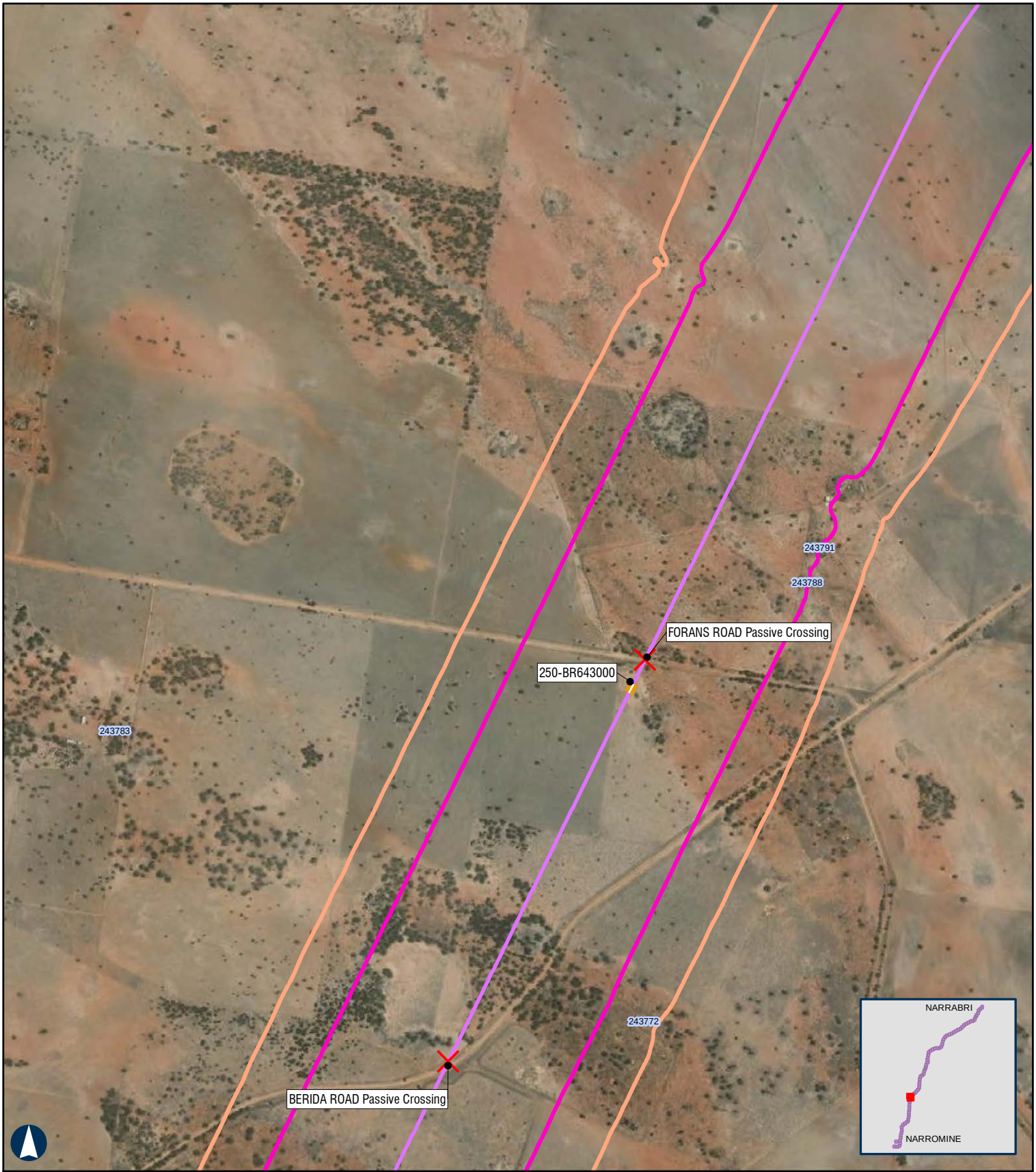
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 98 of 148

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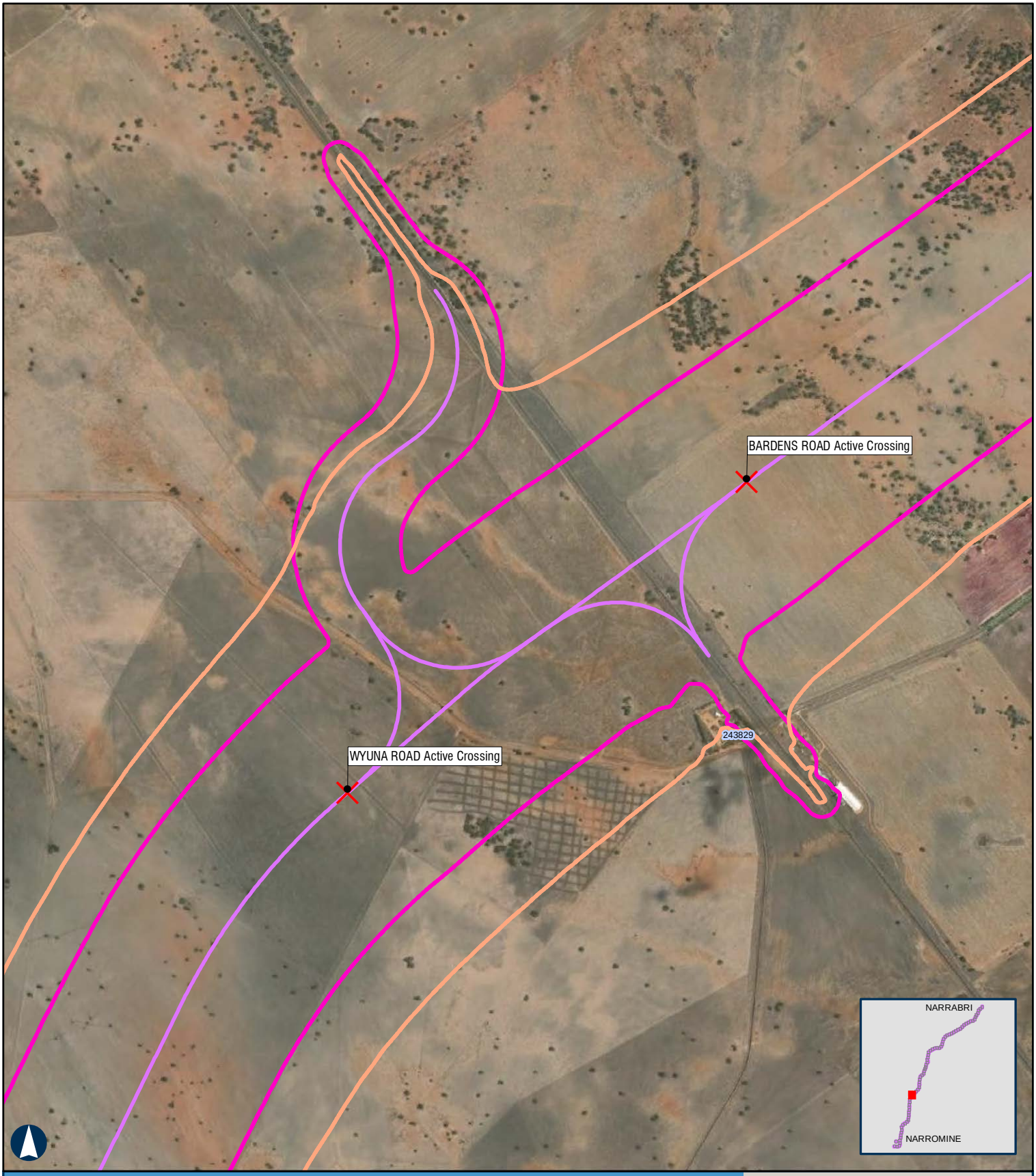
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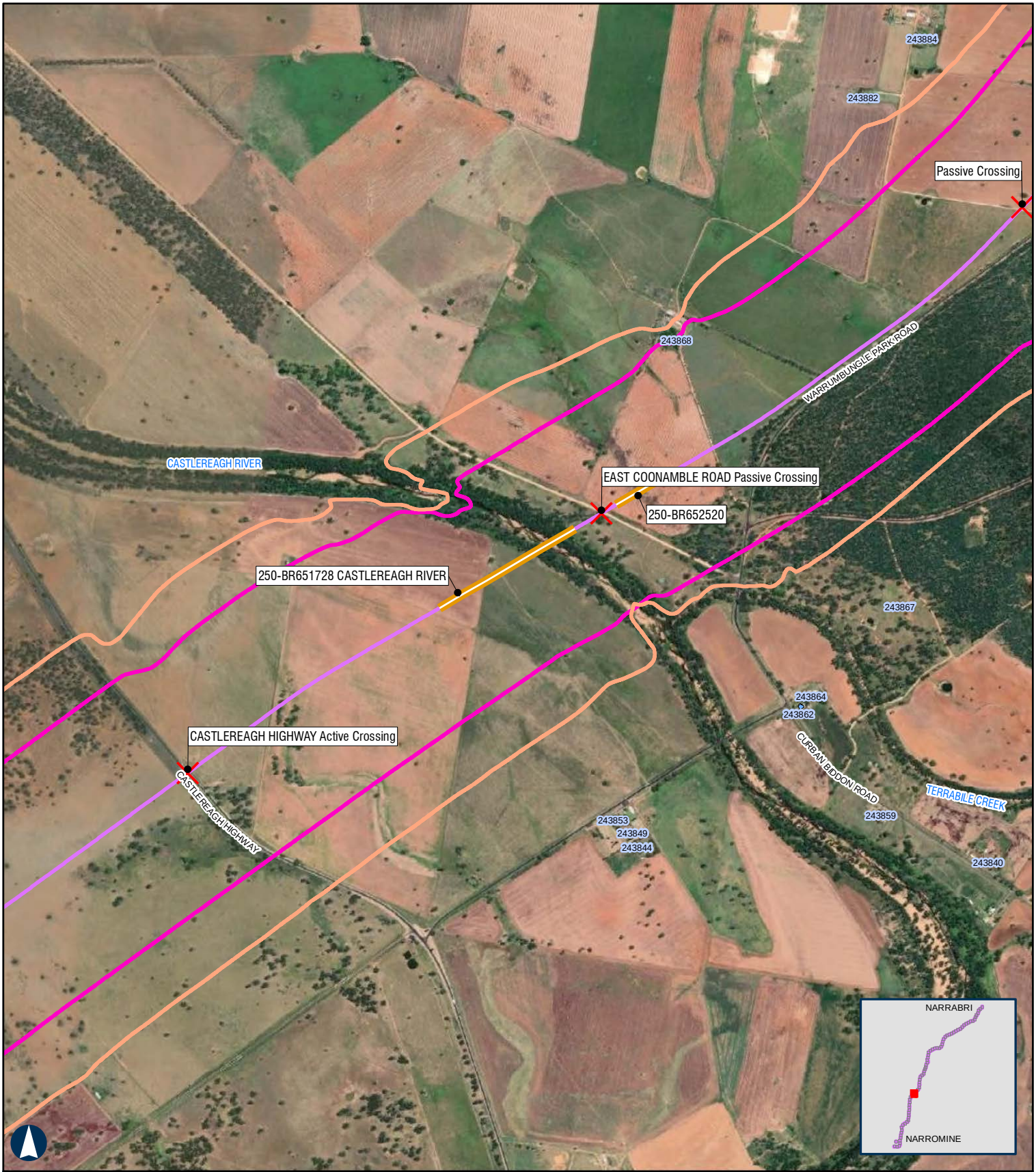
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 100 of 148

500 m

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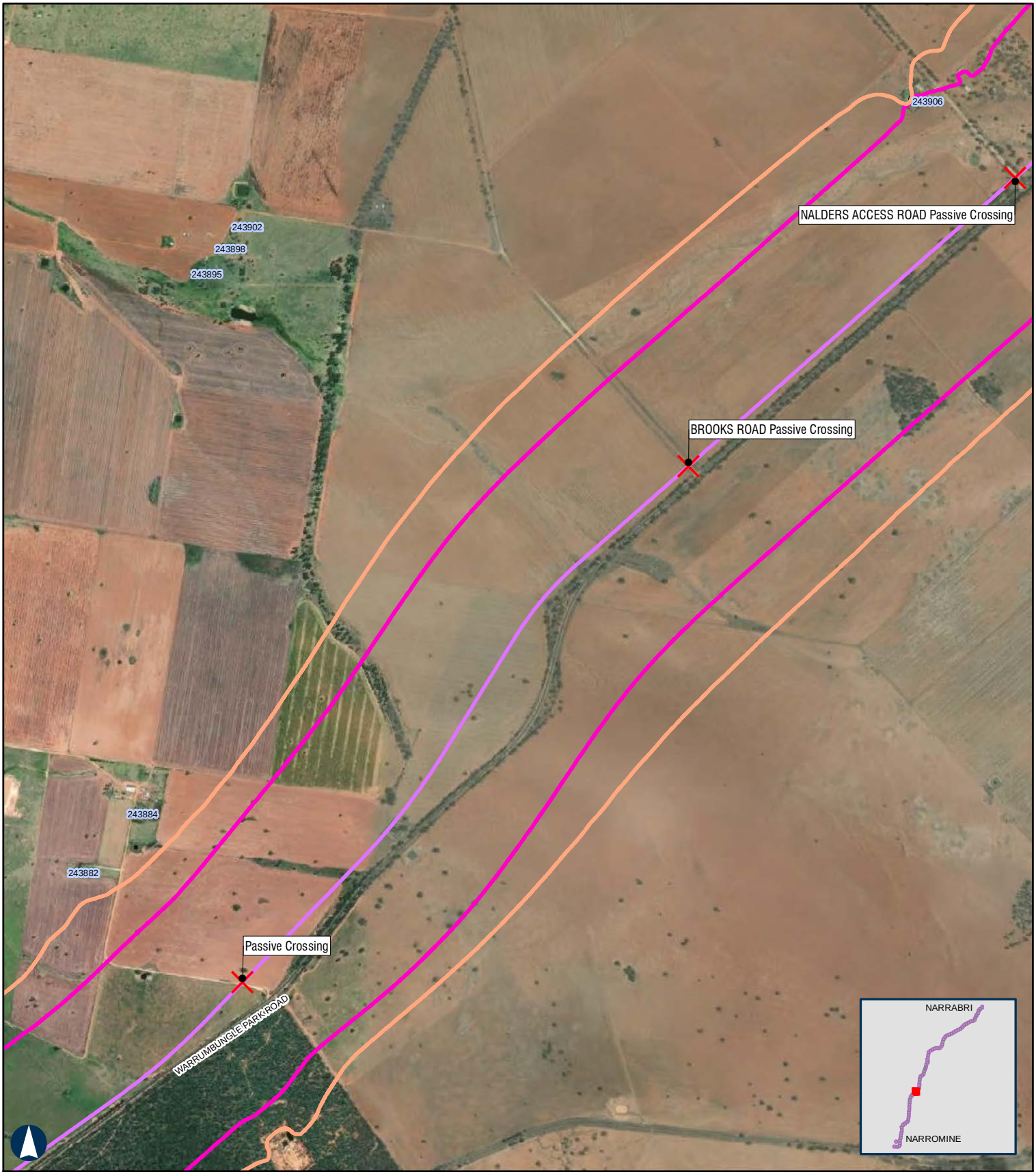
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 101 of 148

500 m

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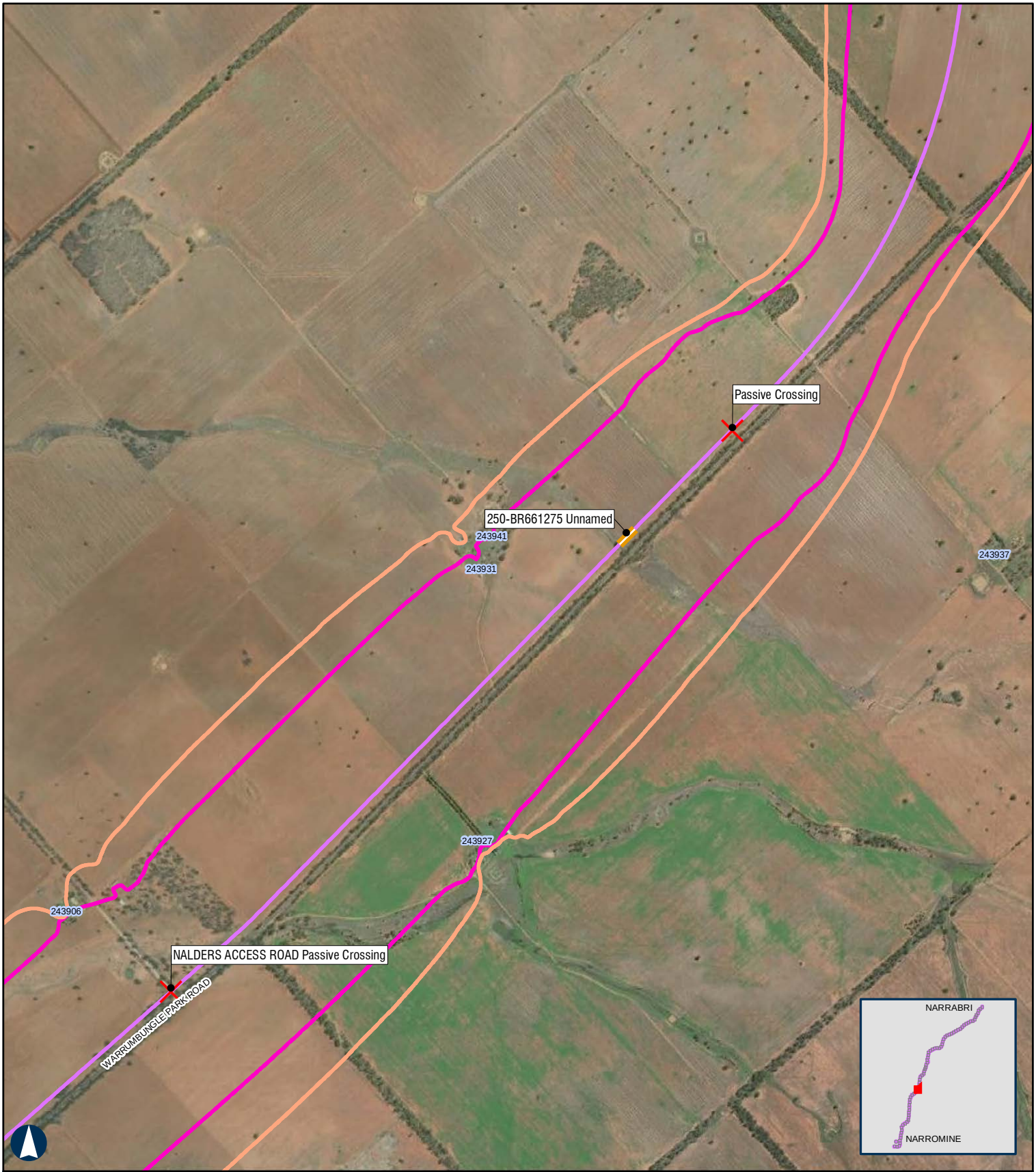
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 102 of 148

500 m

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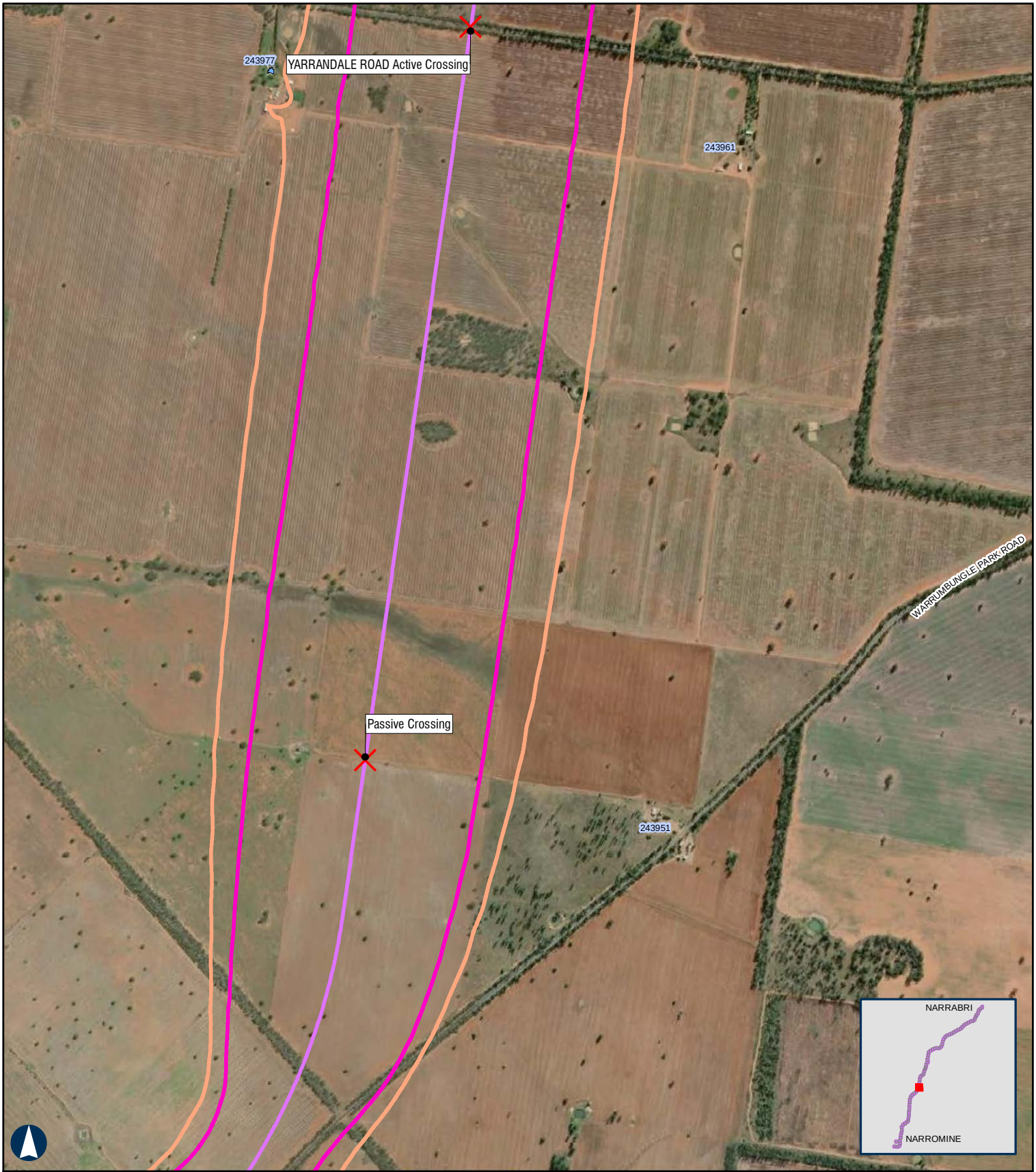
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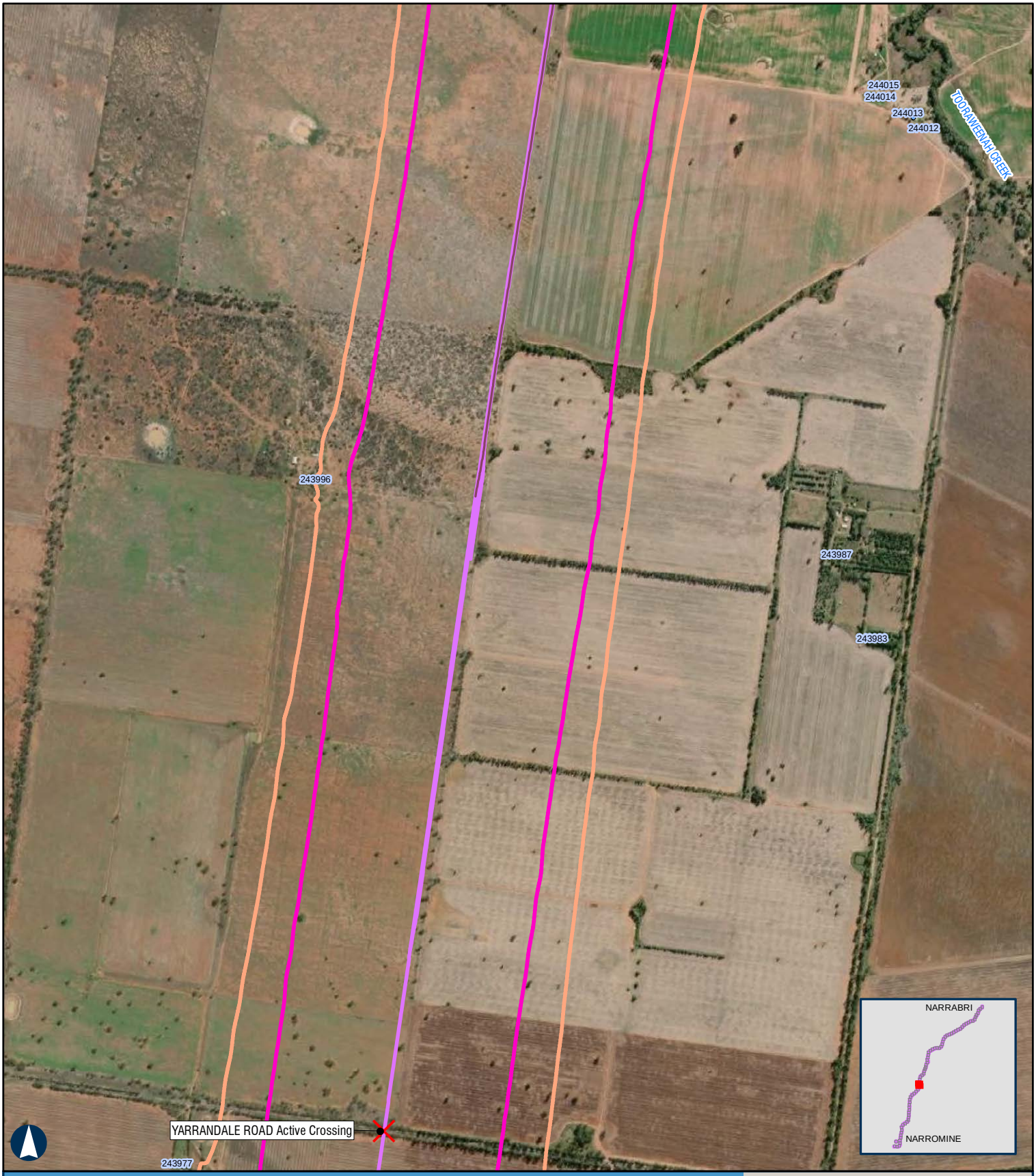
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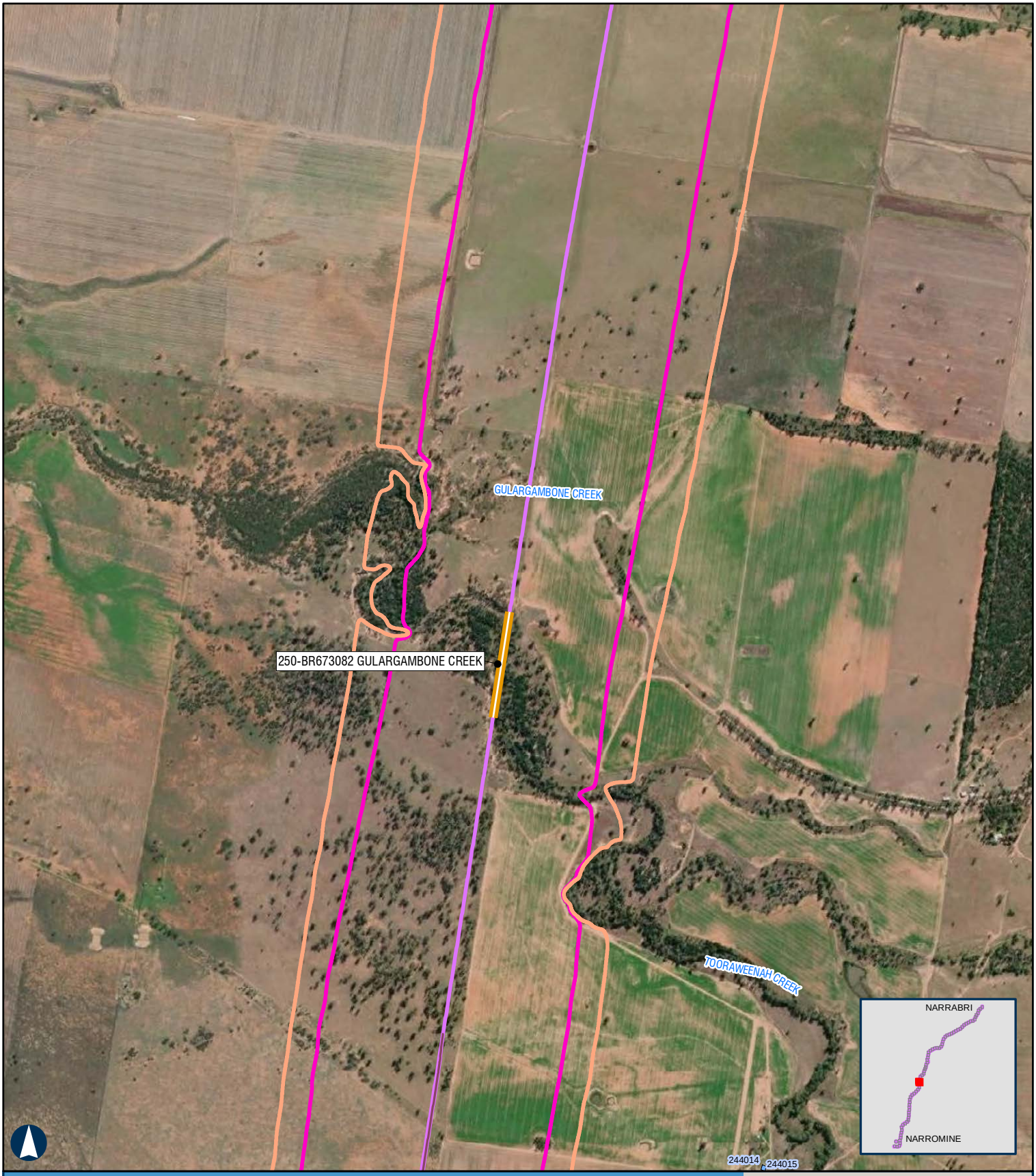
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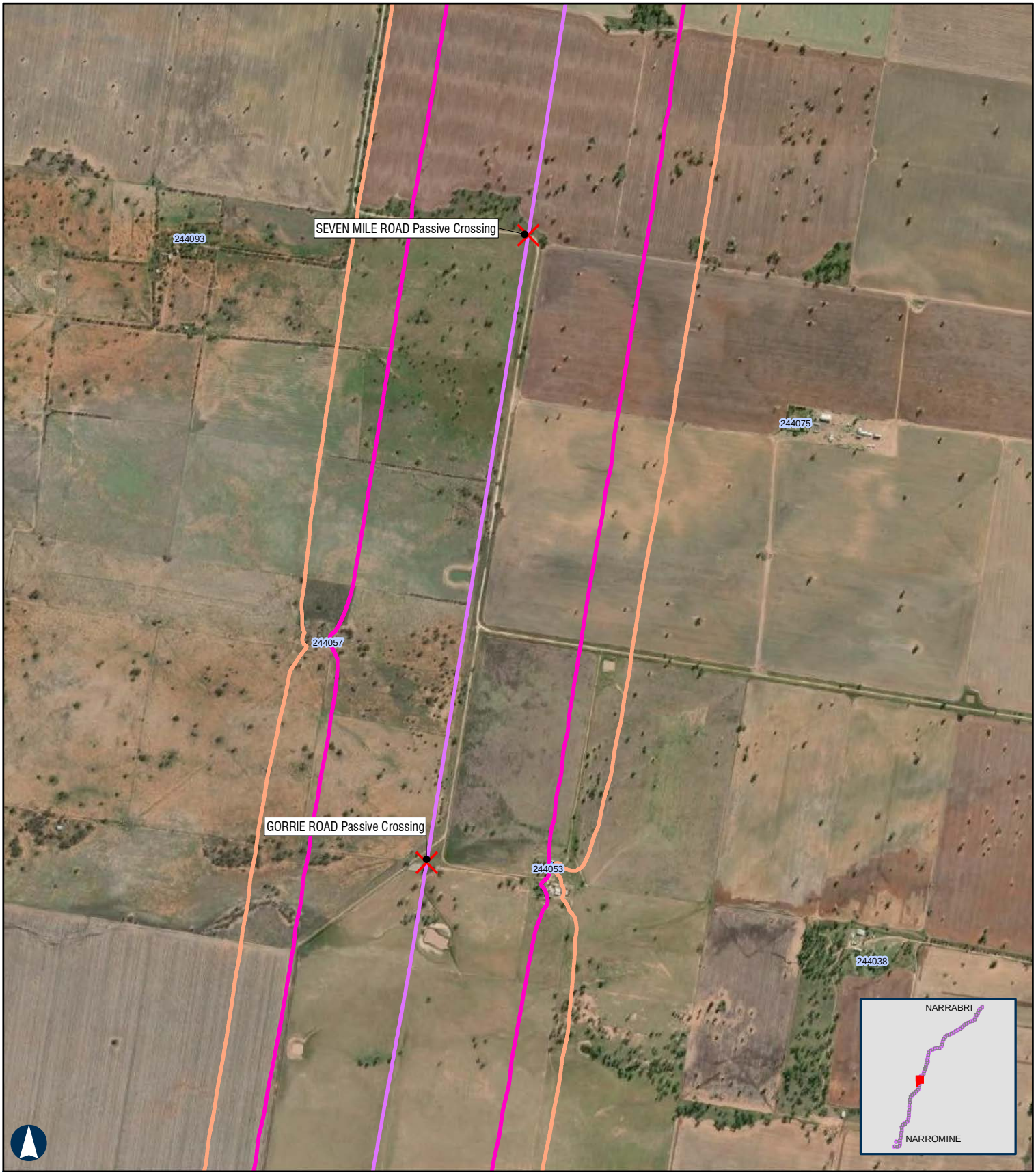
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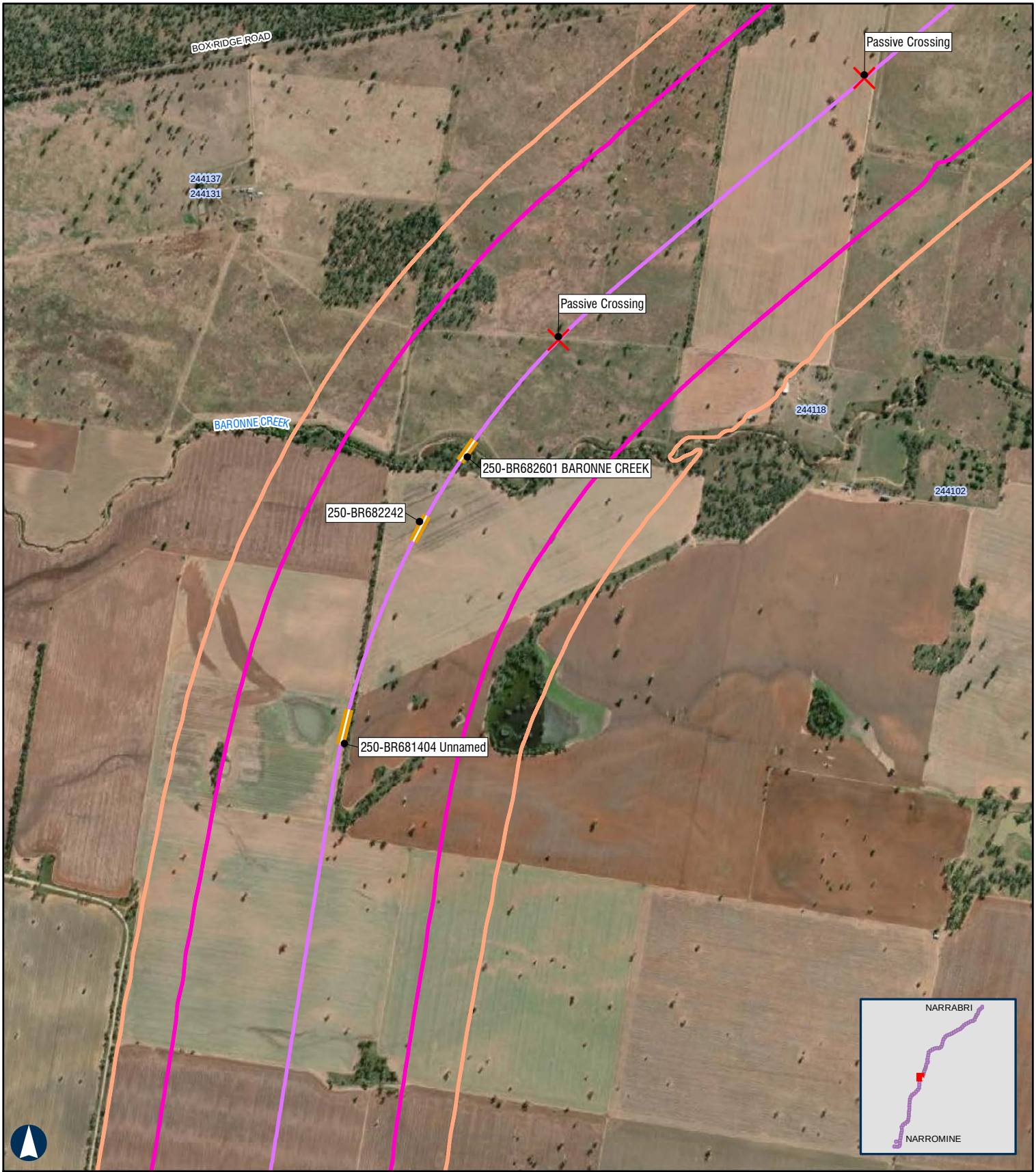
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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

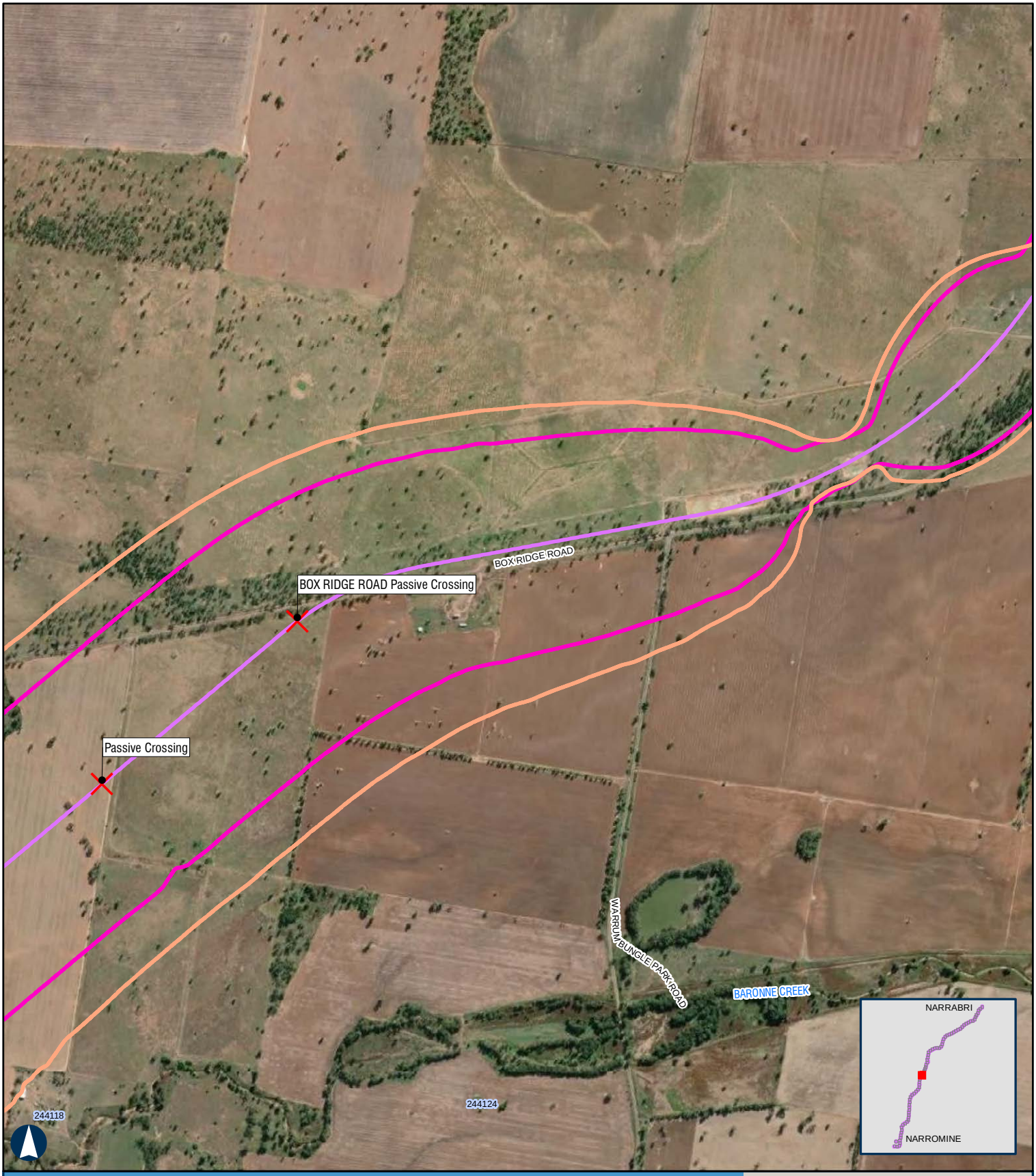
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 108 of 148

500 m

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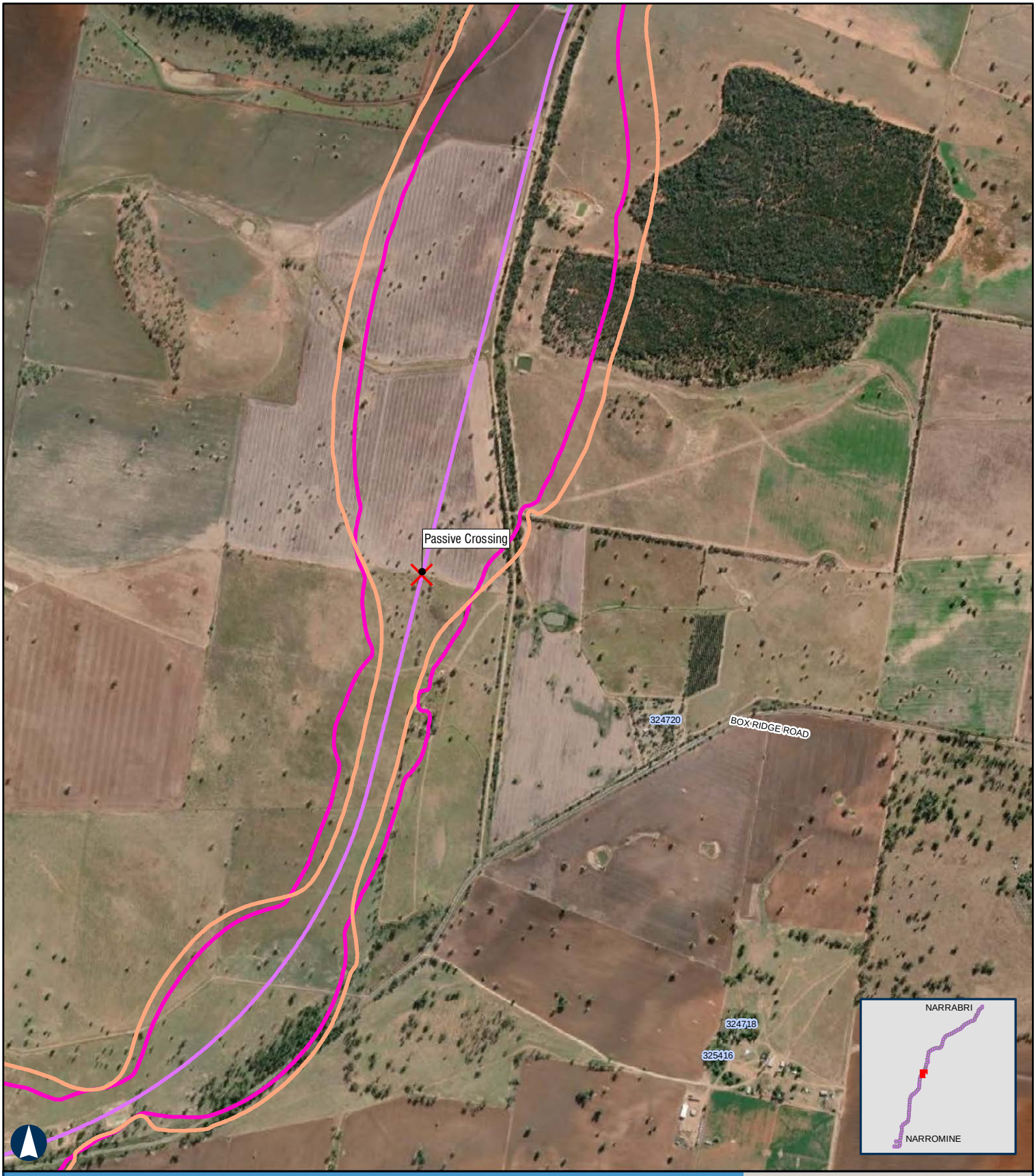
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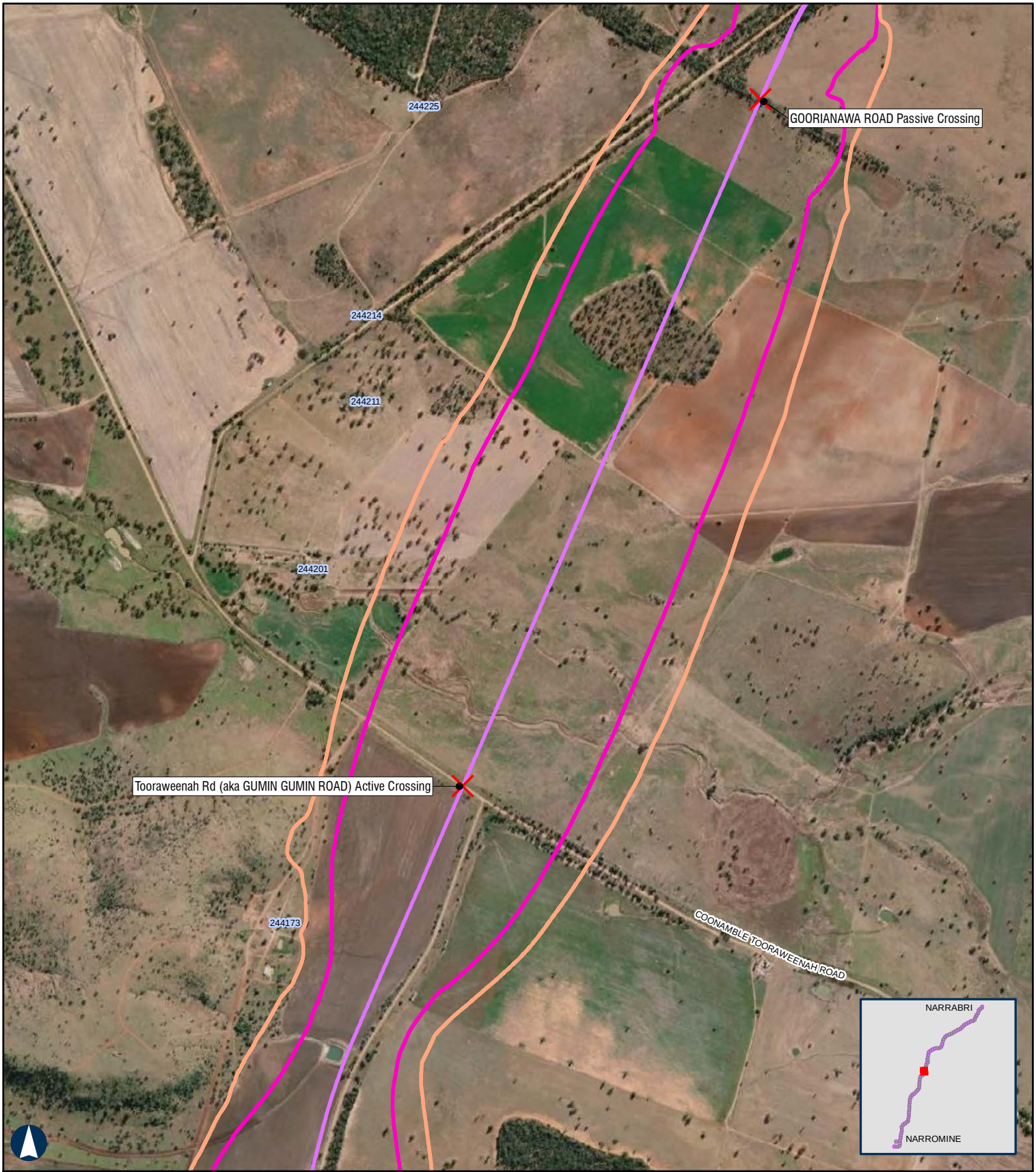
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 110 of 148

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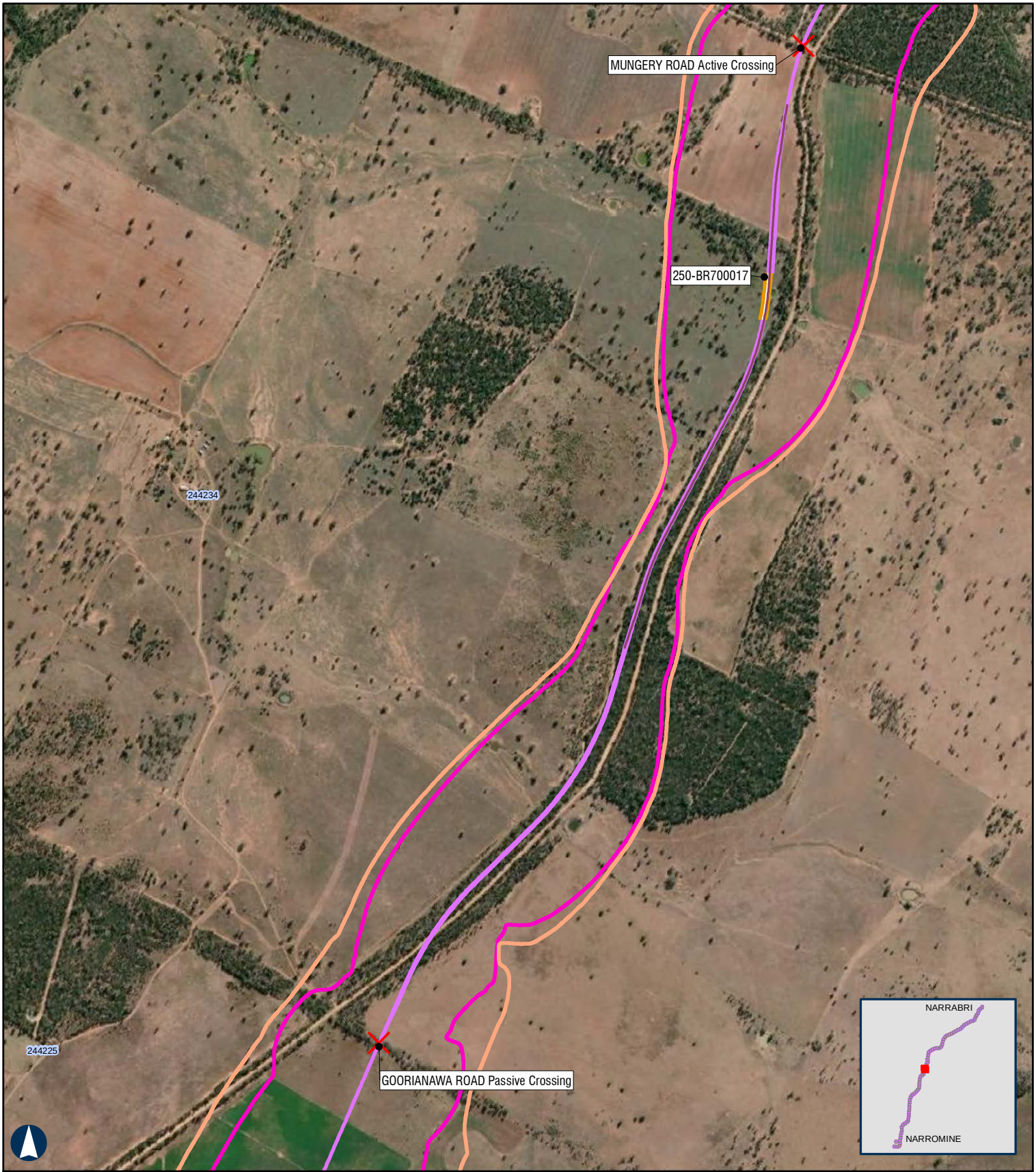
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 111 of 148

500 m

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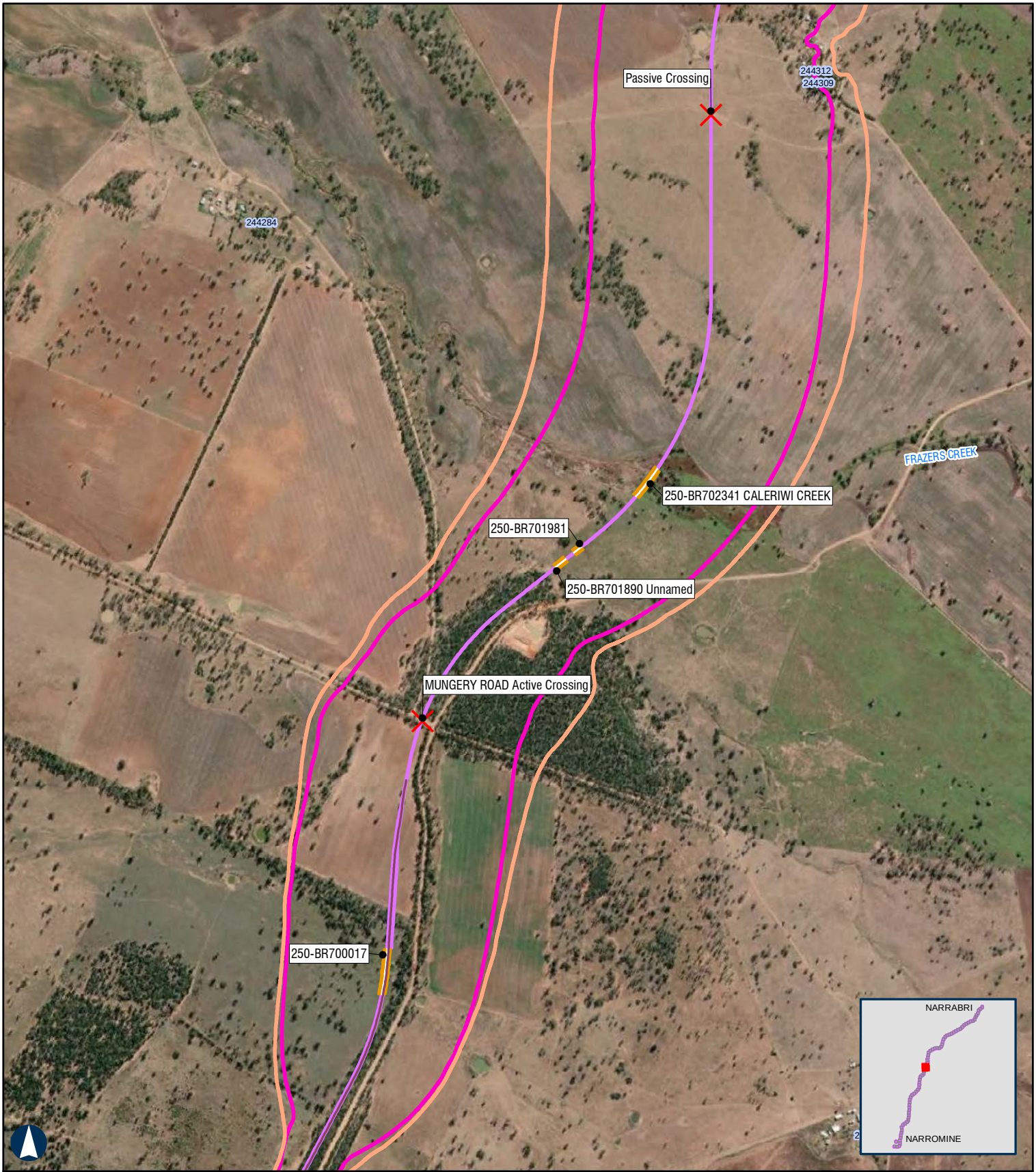
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 112 of 148

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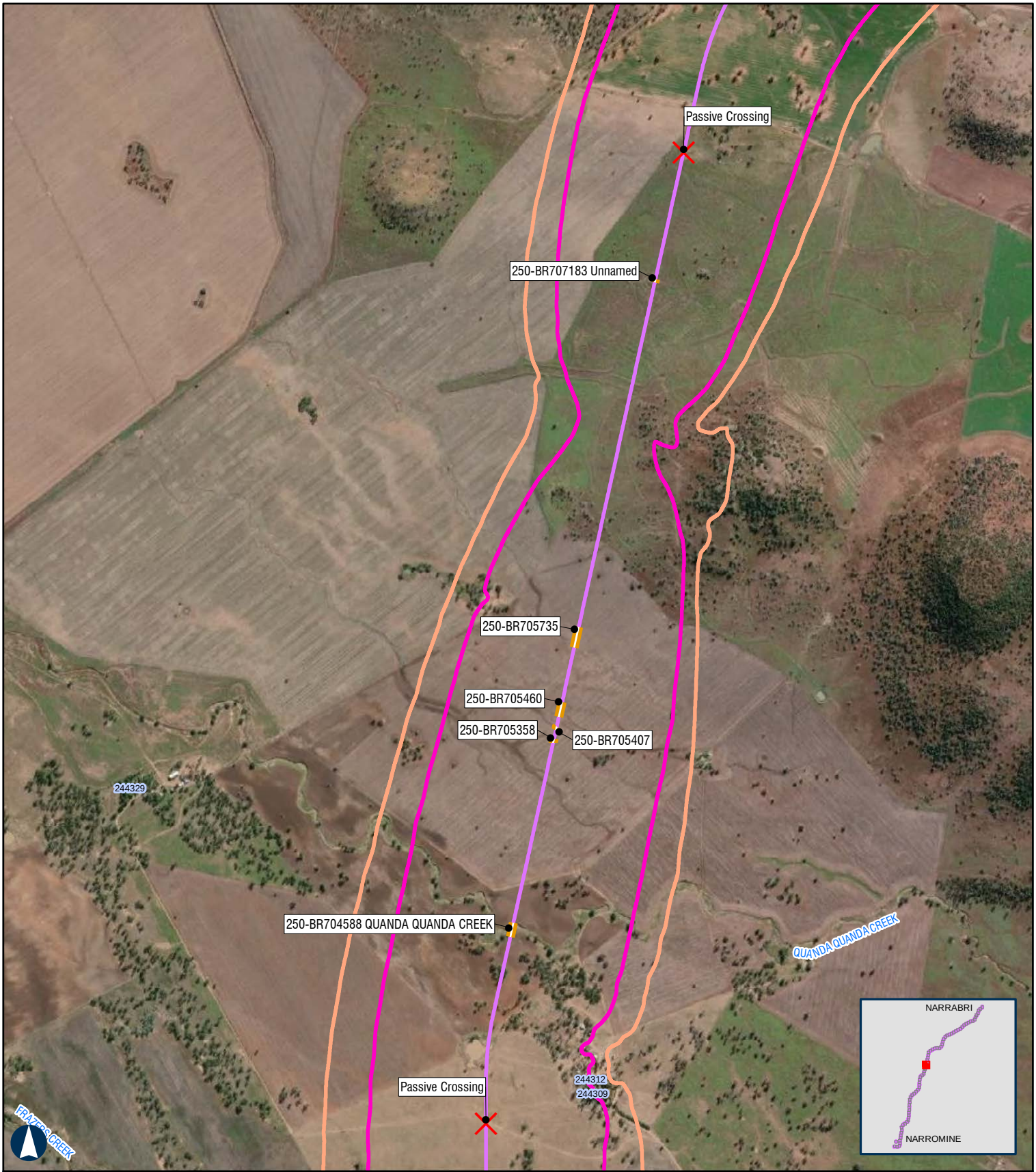
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 113 of 148

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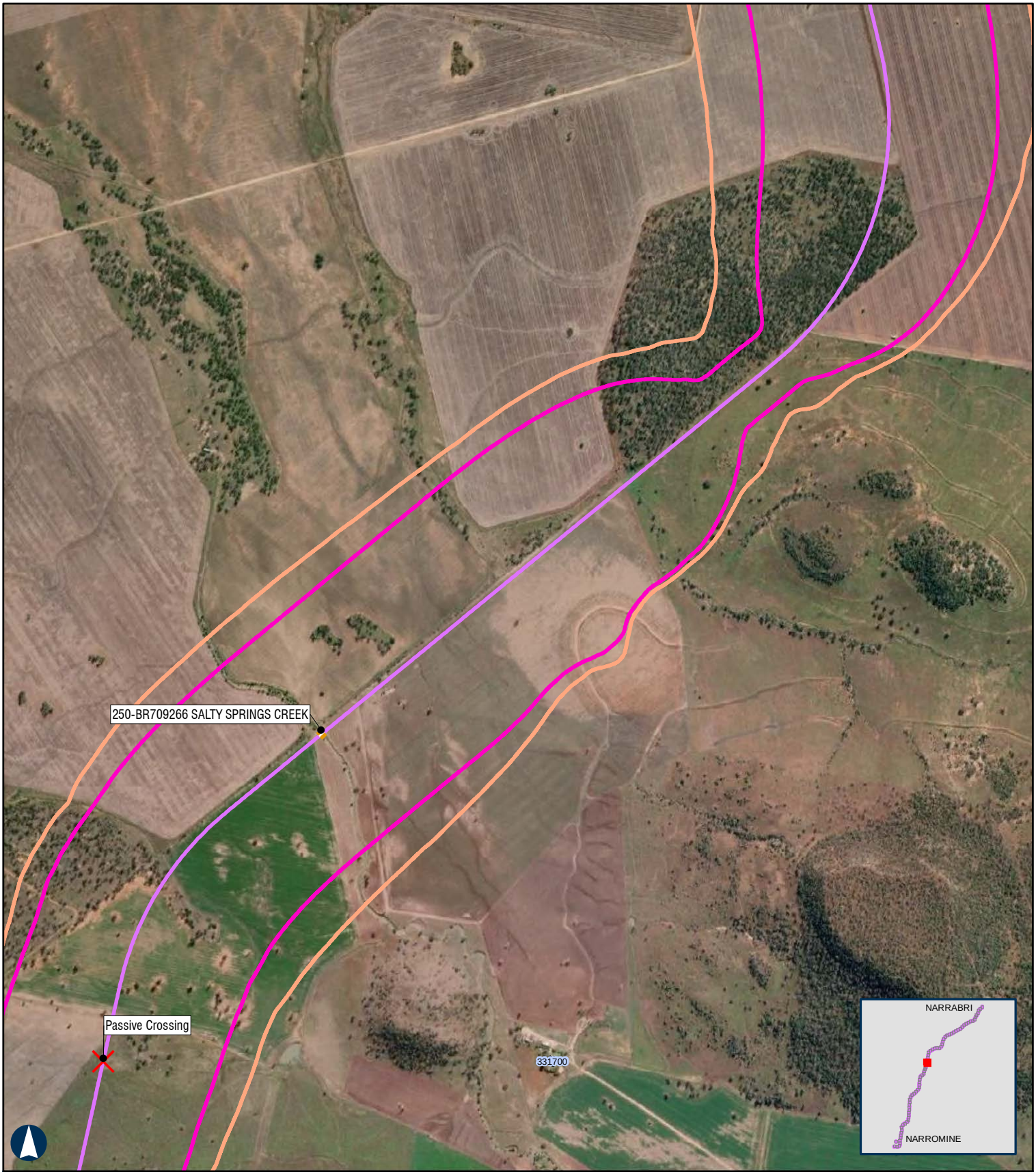
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 114 of 148

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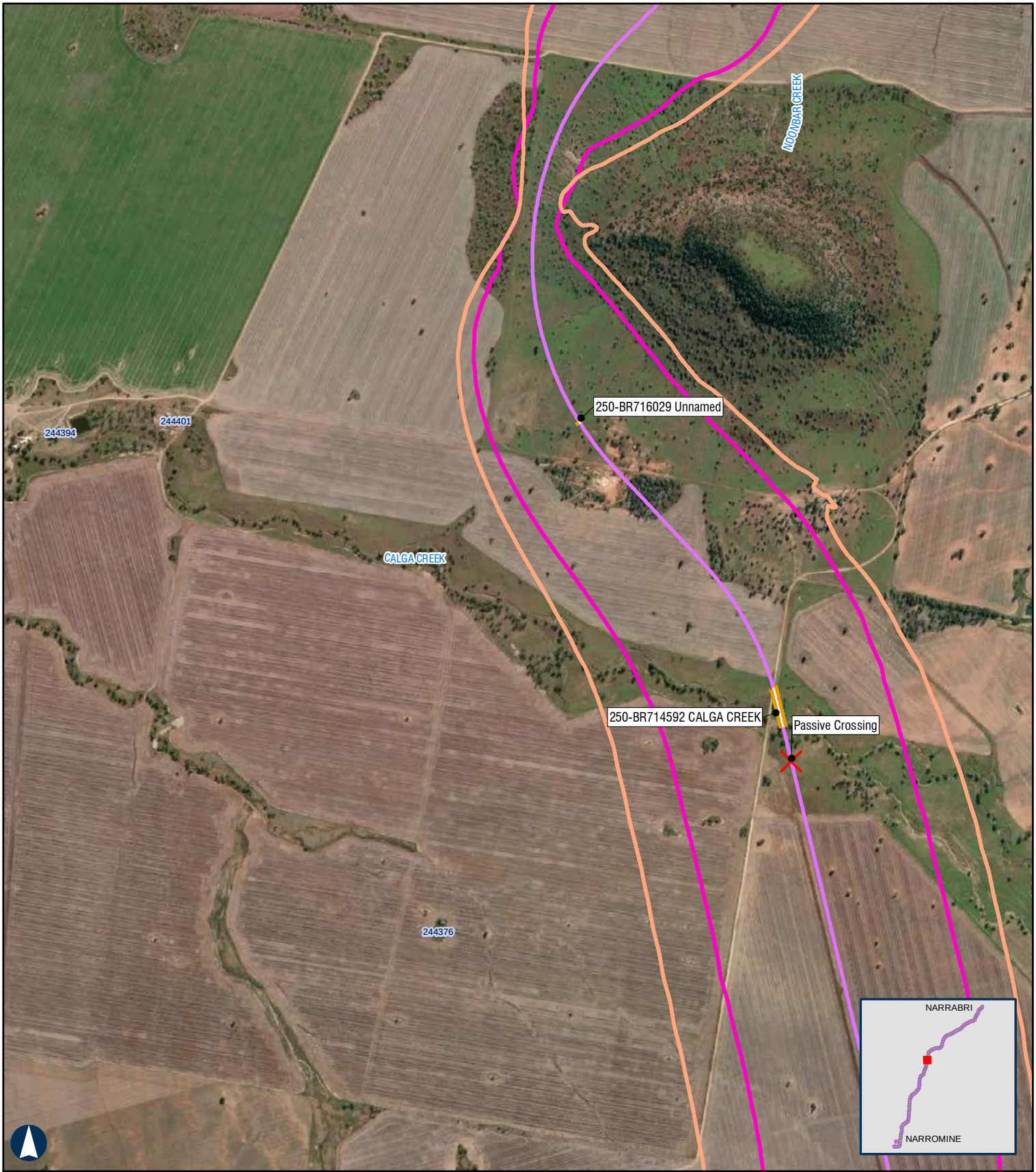
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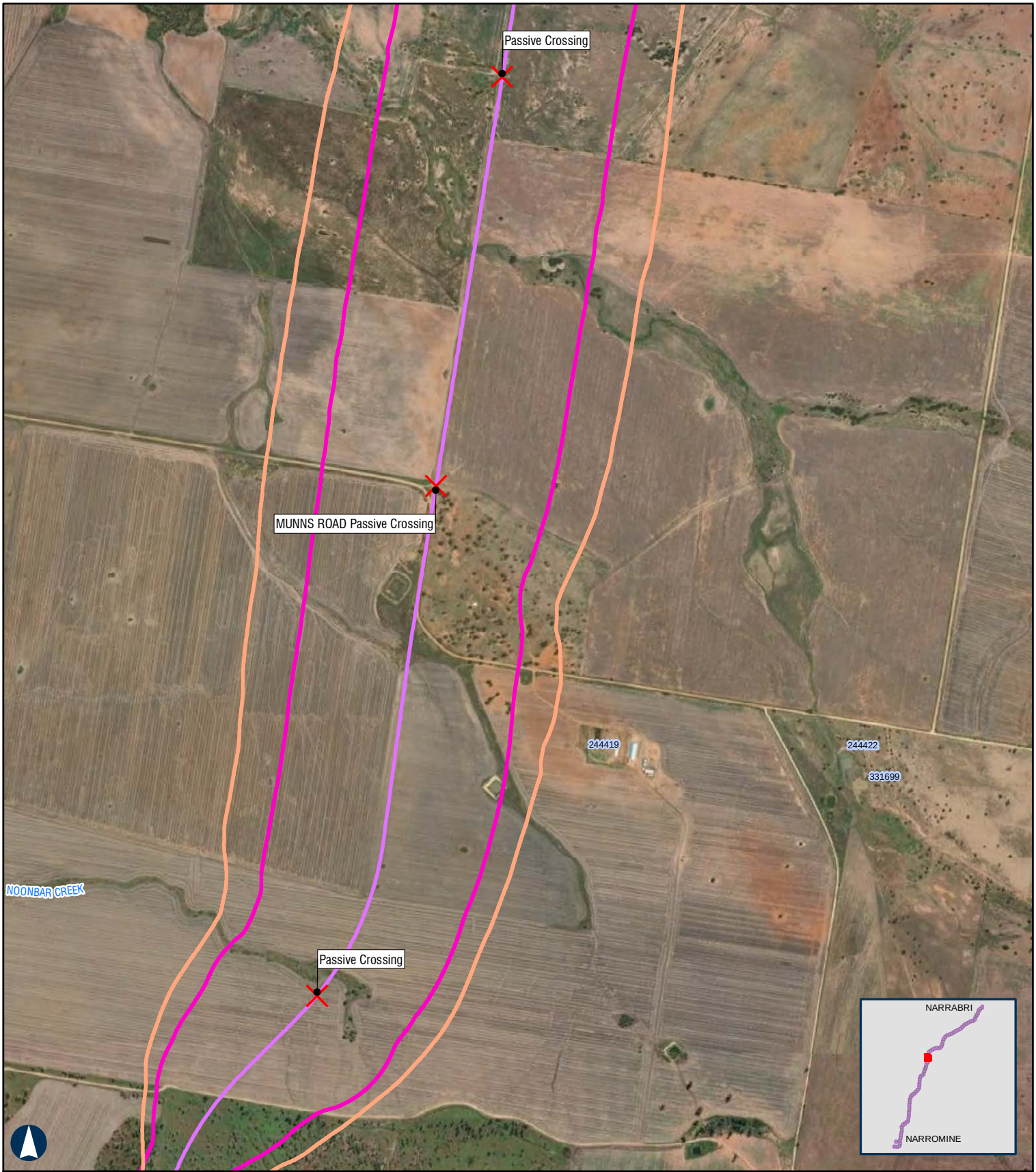
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APPENDIX E - Map 116 of 148

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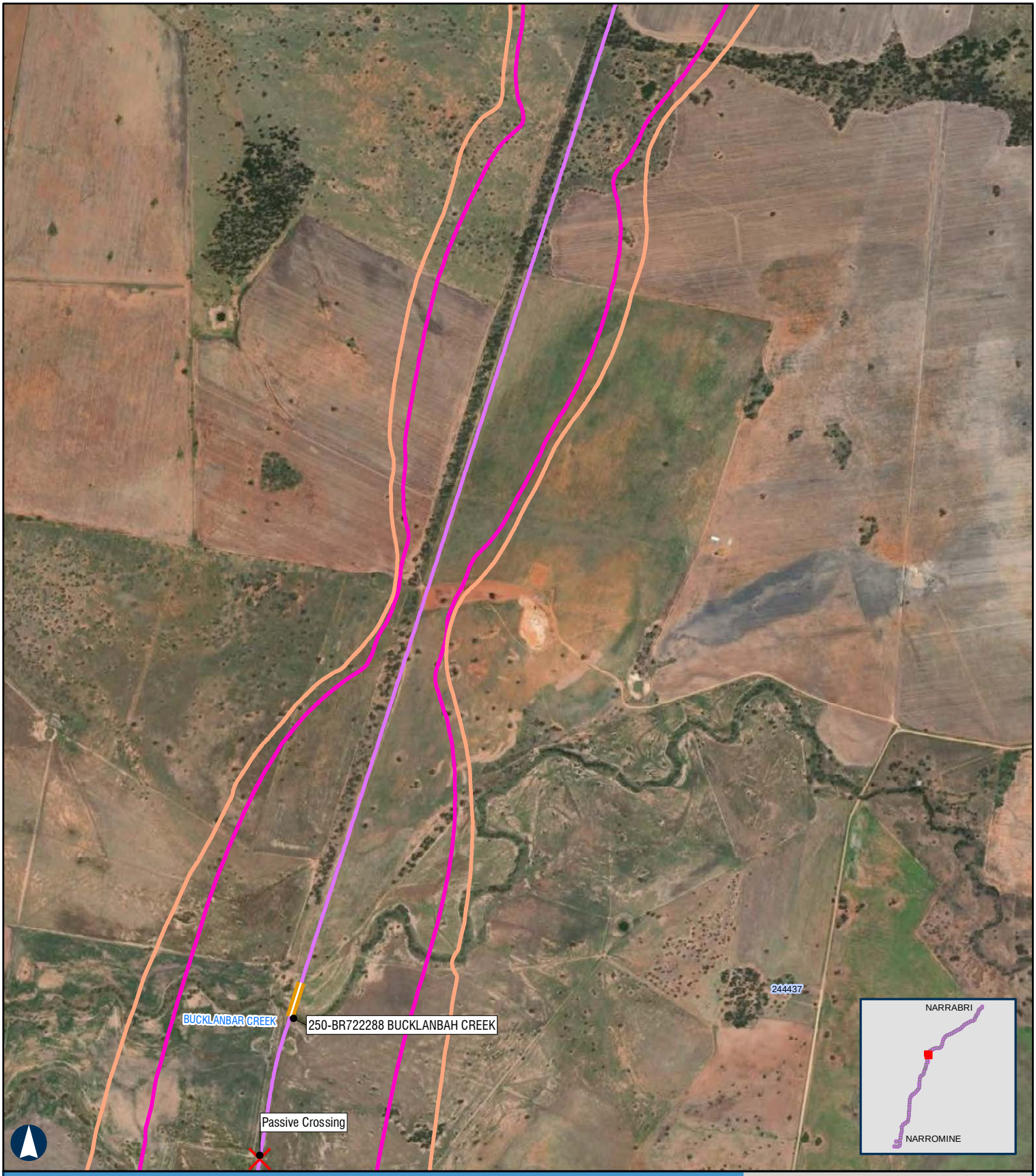
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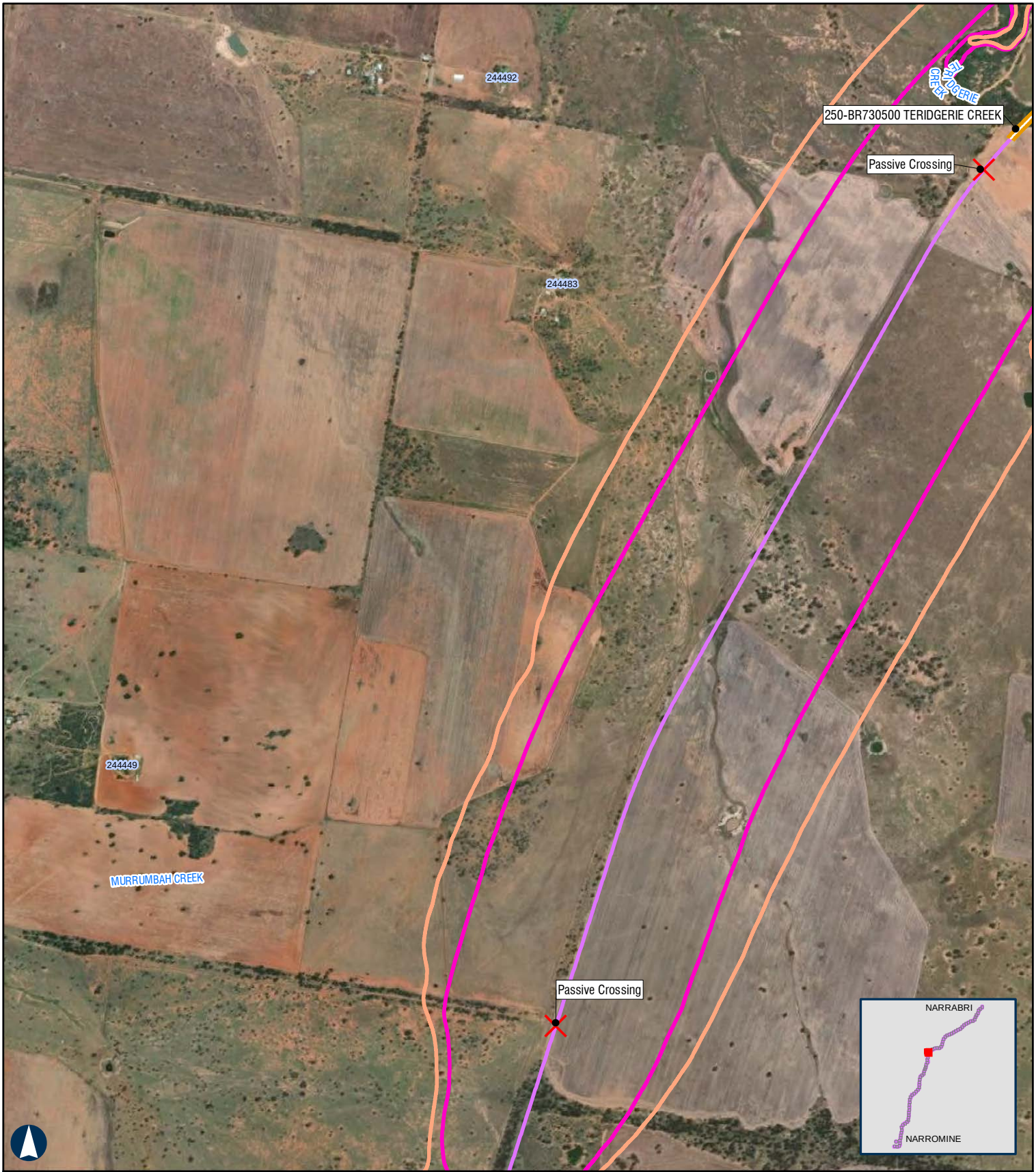
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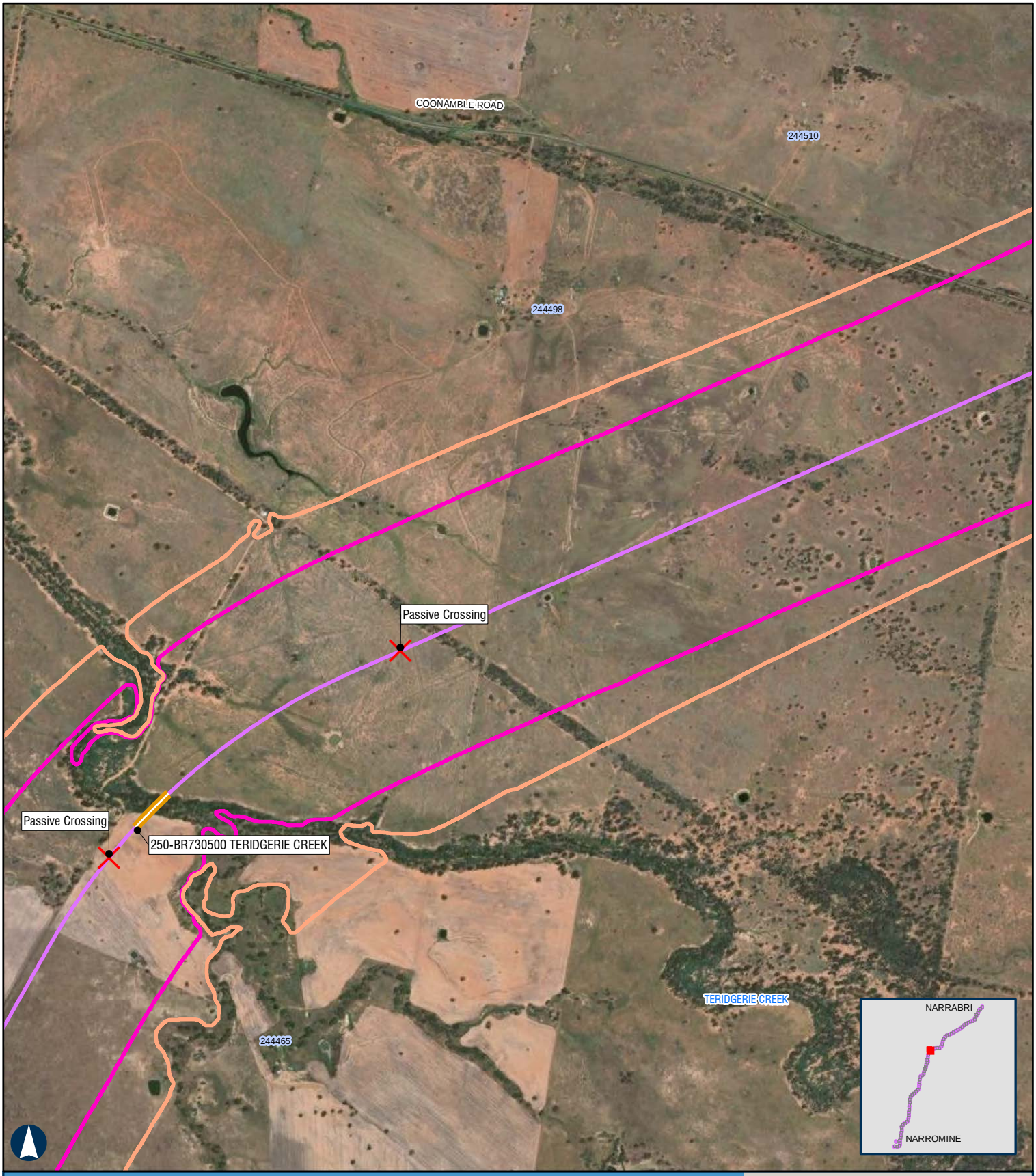
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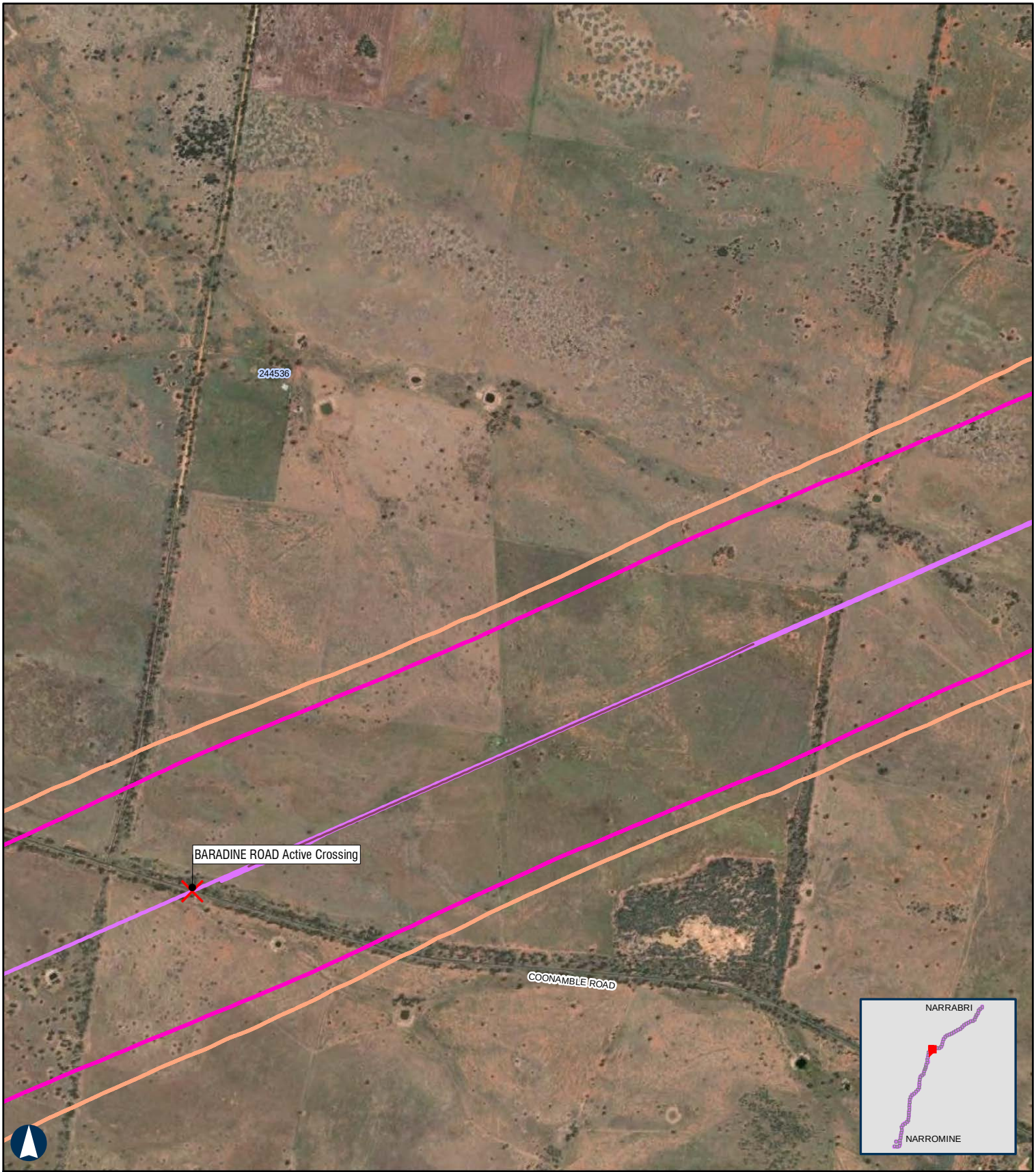
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Year 2040 Night-time Rail Noise Levels

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500 m

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

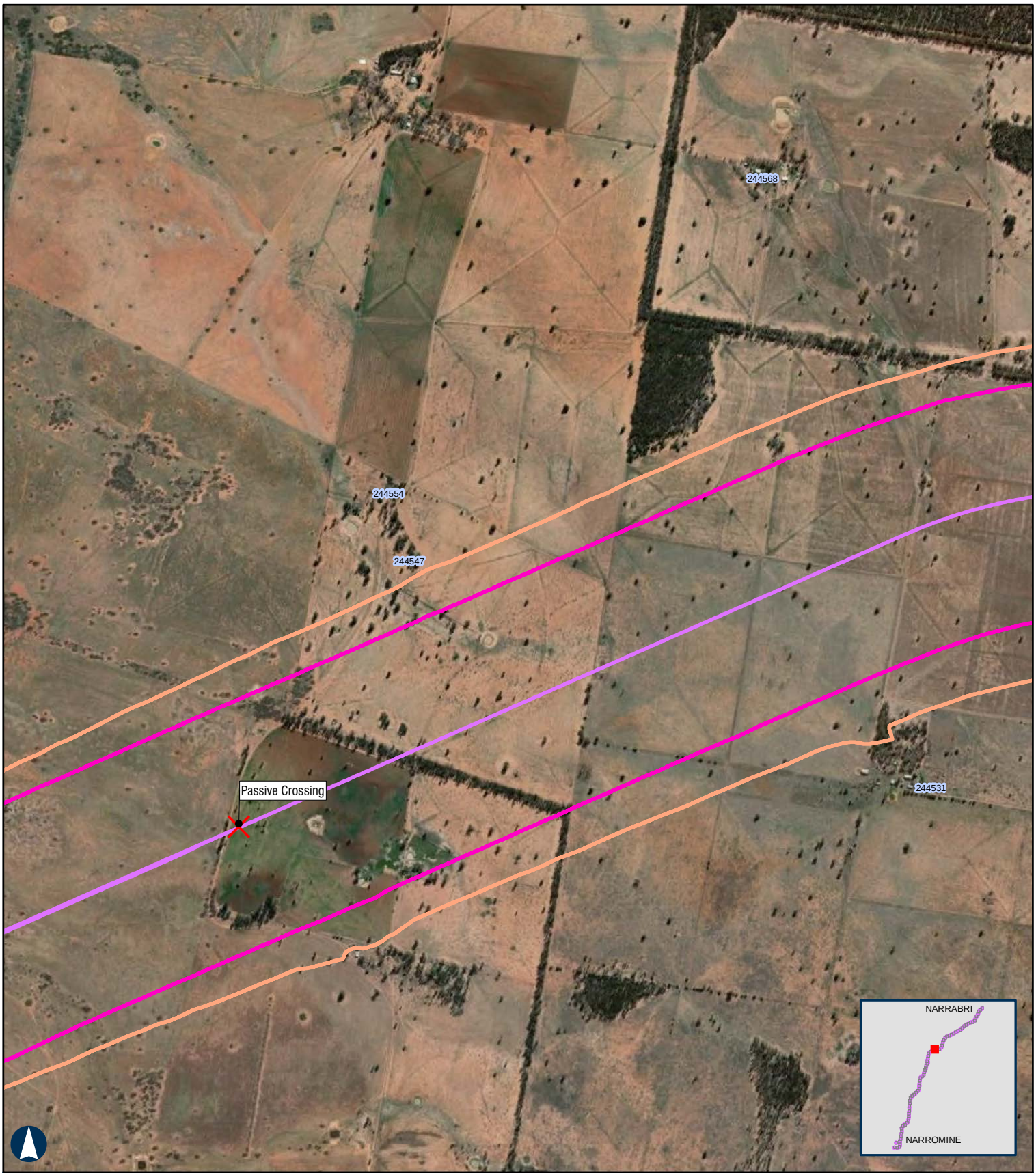
Noise contours are based on a set distance above the local terrain level of 2.4m.

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ARTC InlandRail

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

500 m

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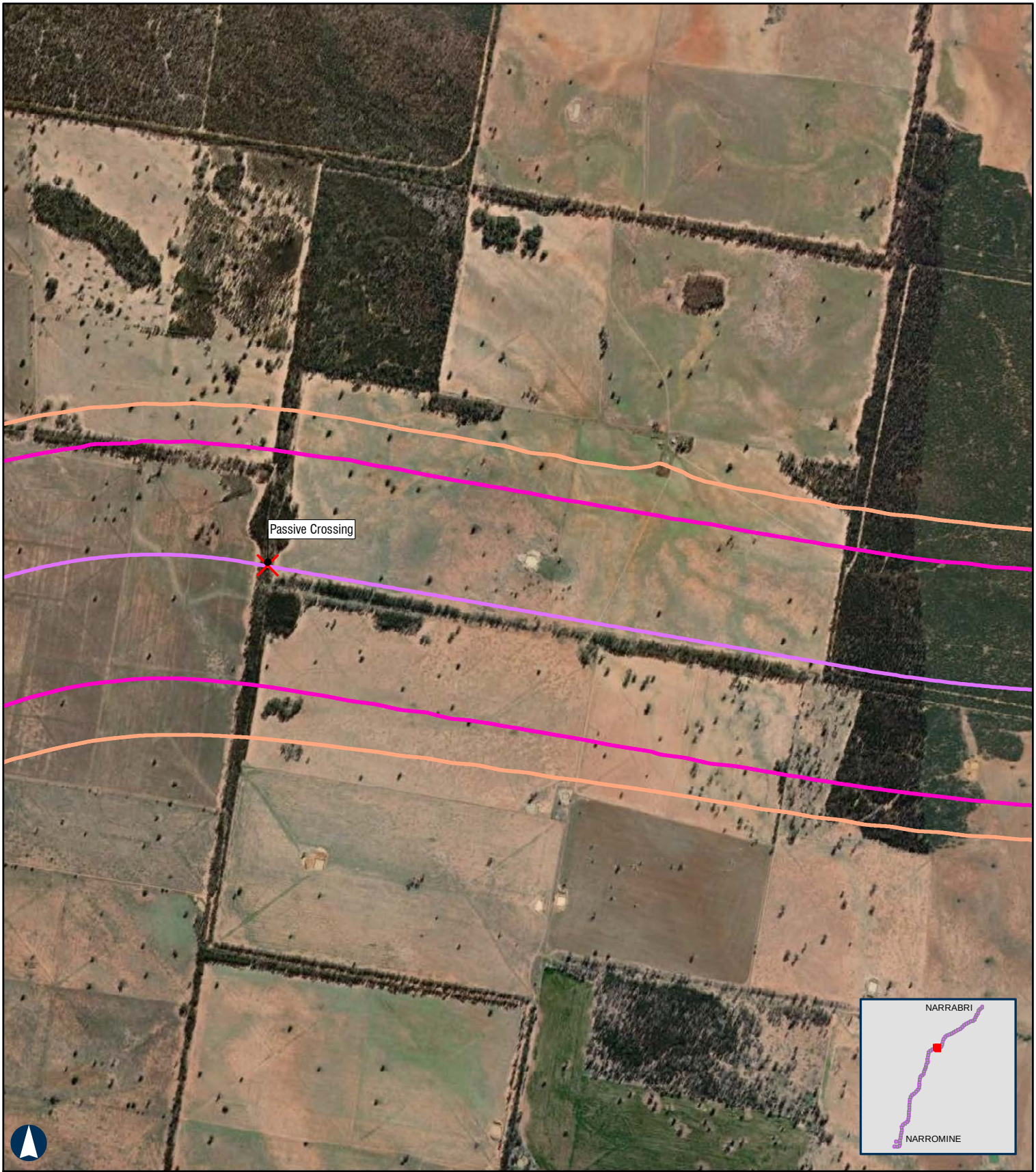
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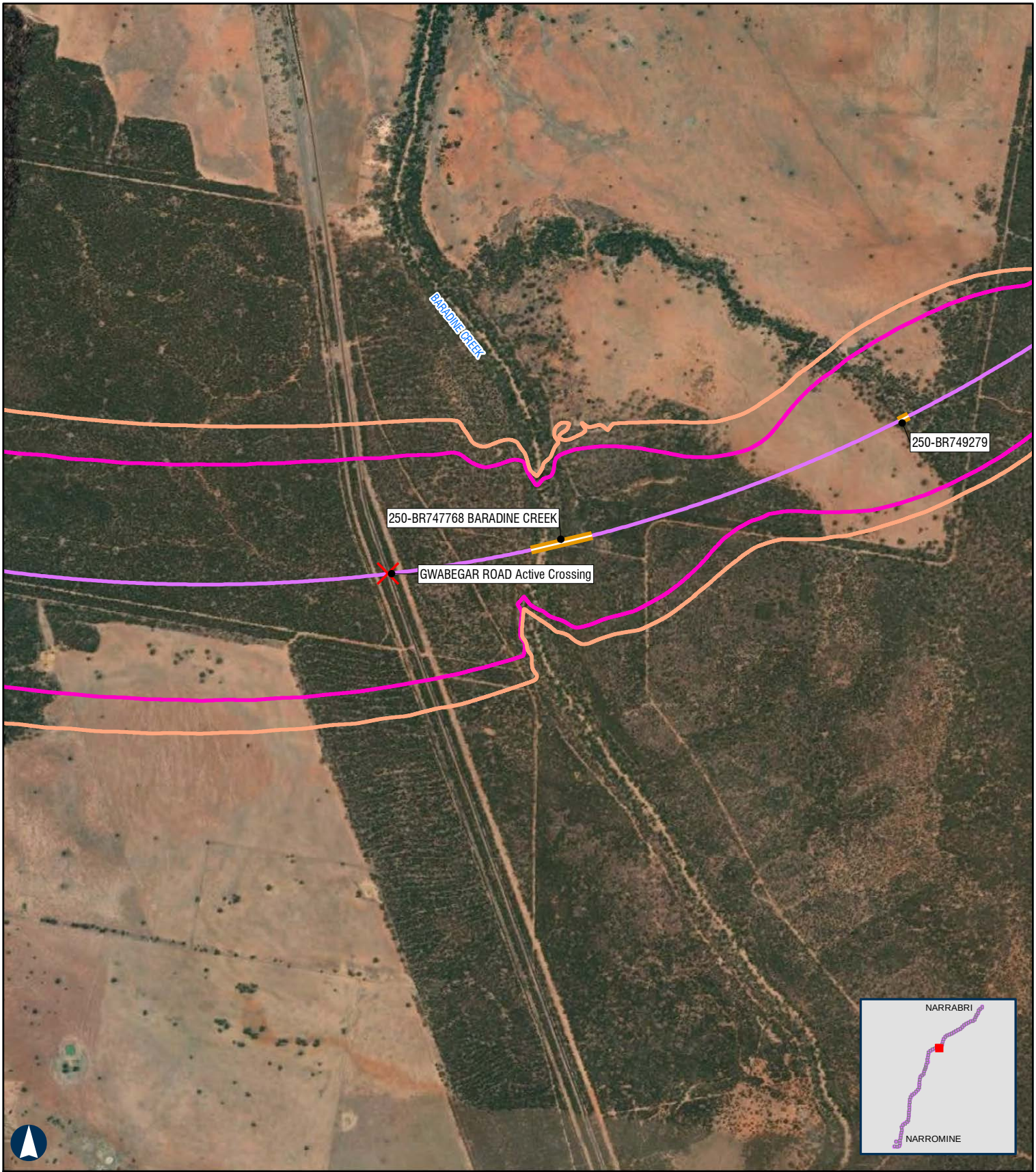
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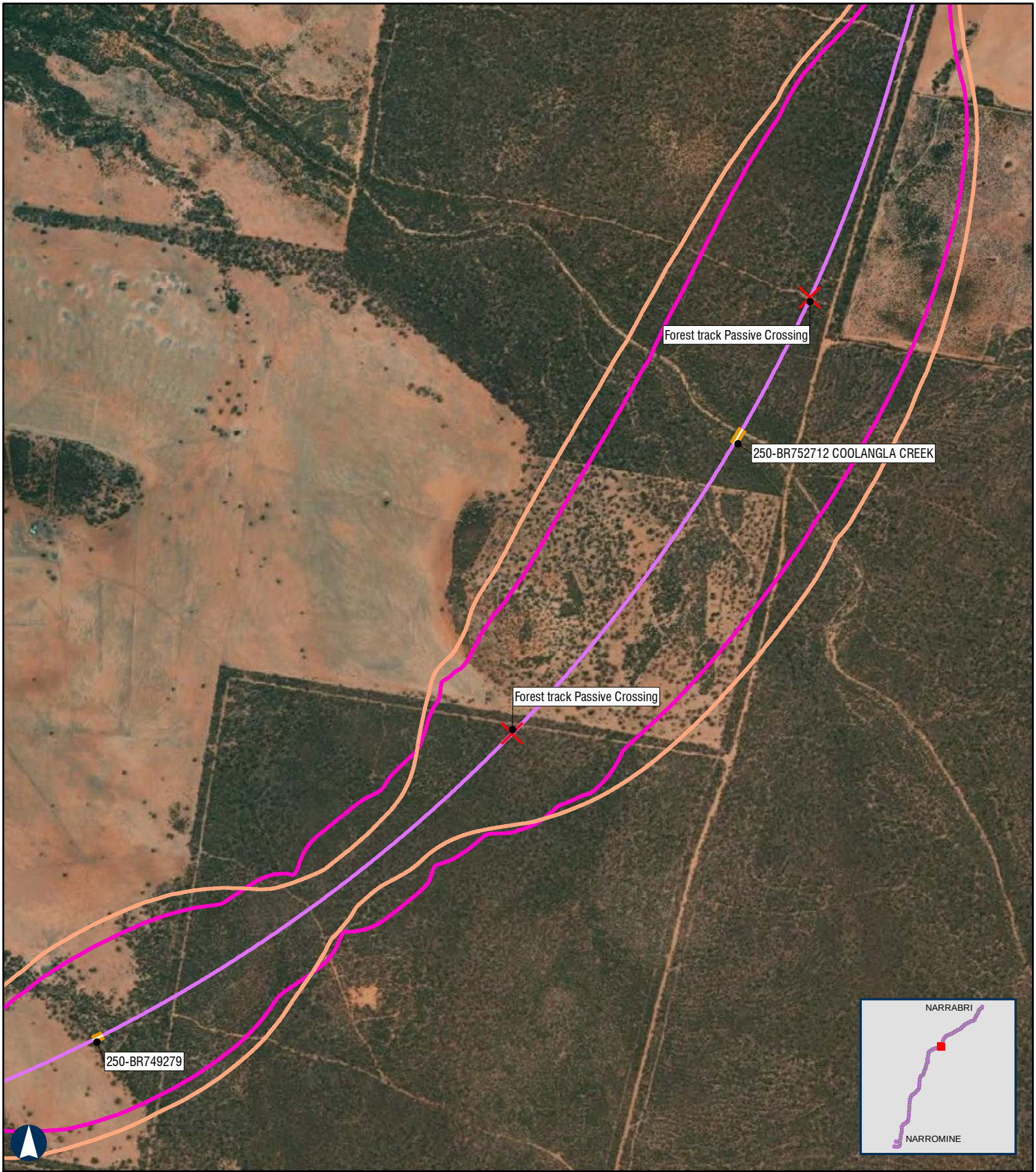
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 124 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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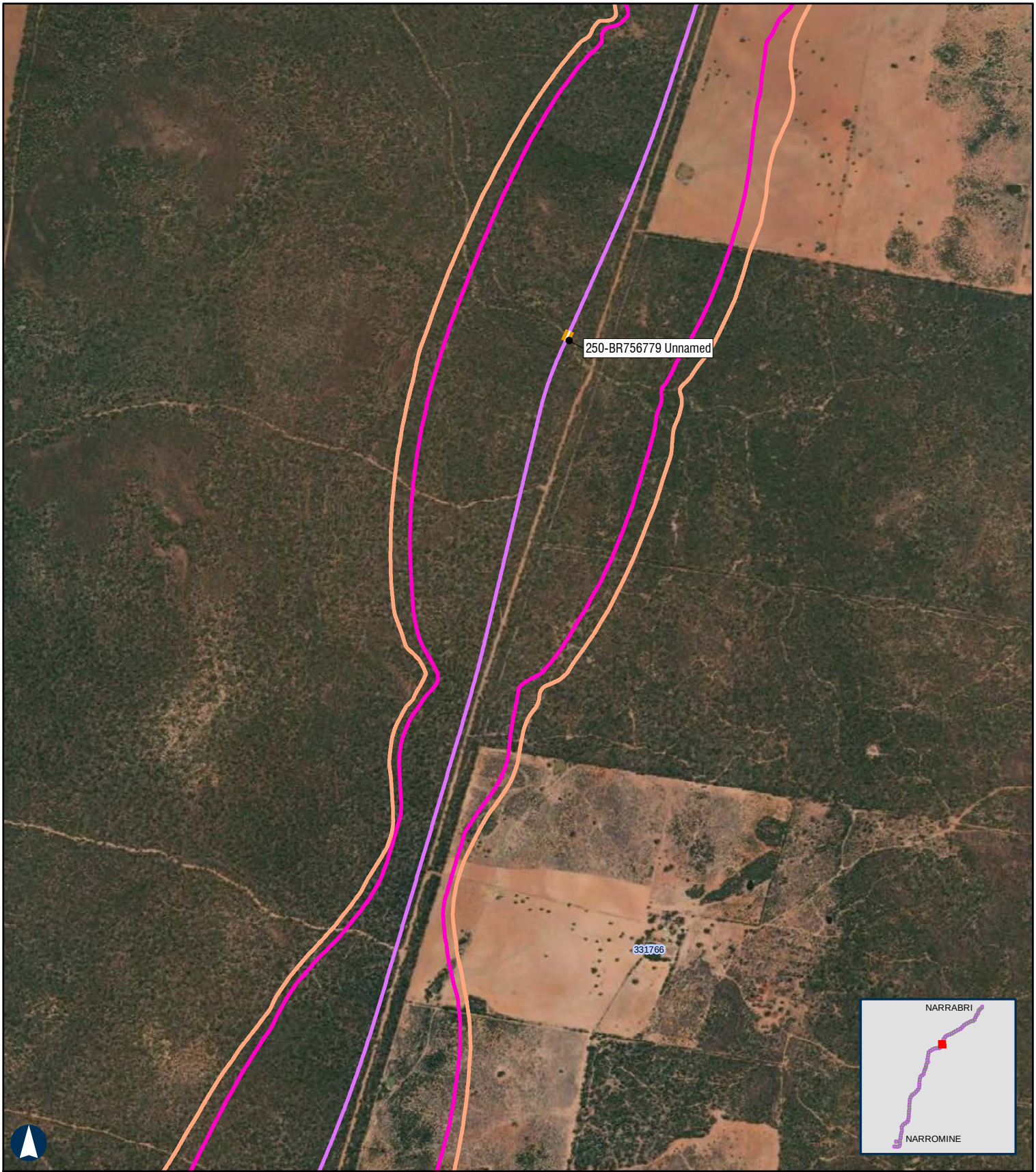
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Year 2040 Night-time Rail Noise Levels

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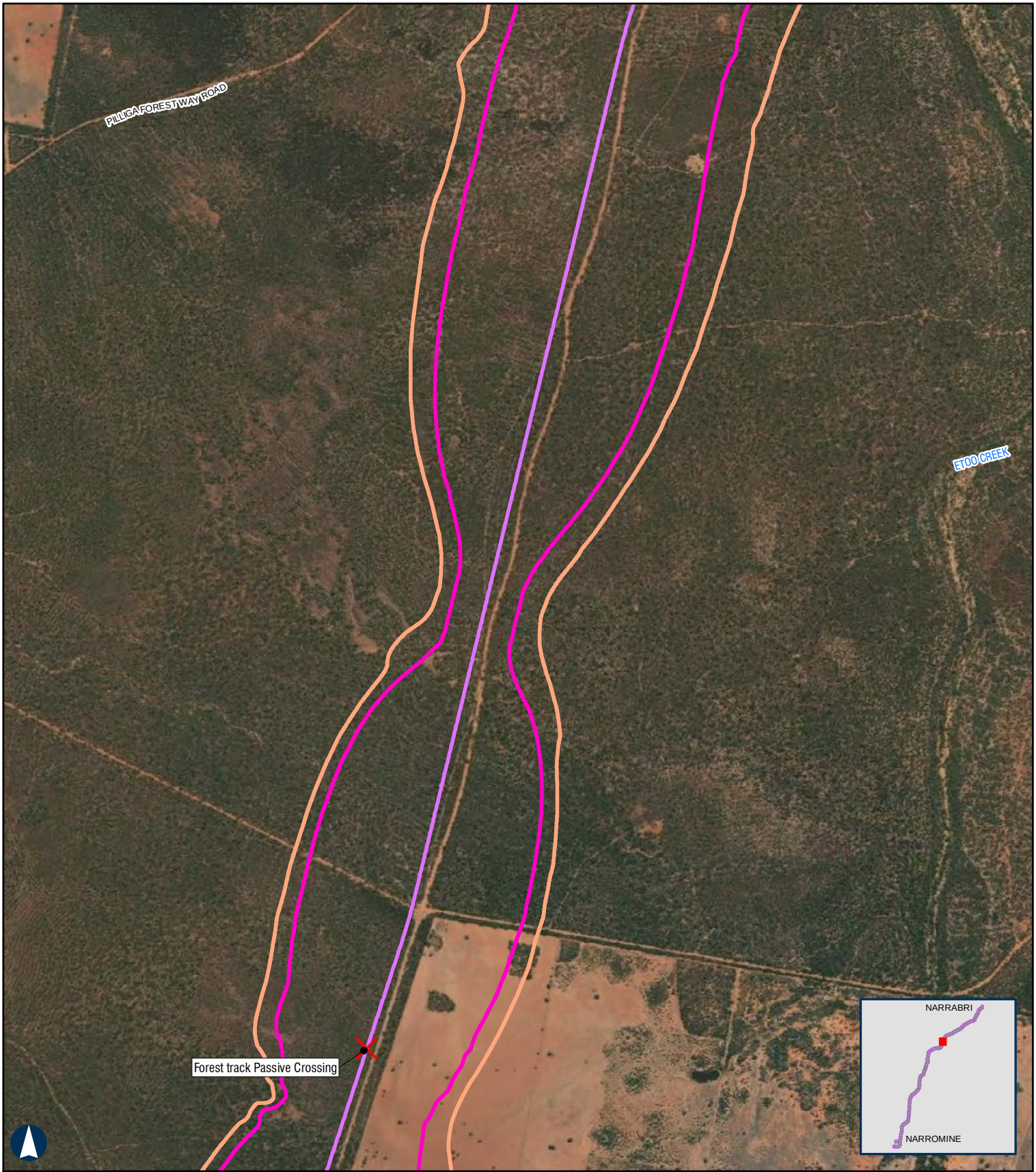
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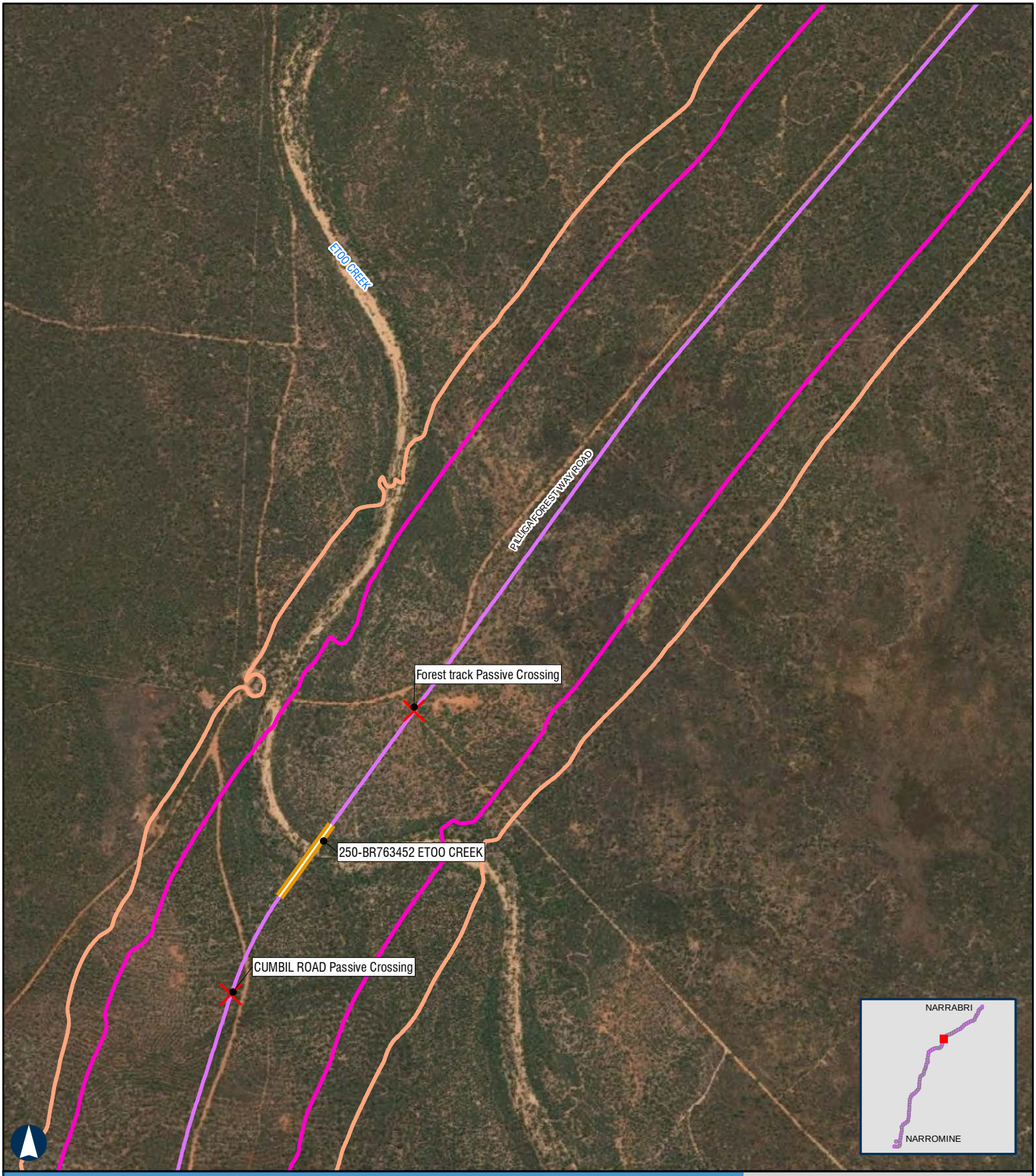
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 127 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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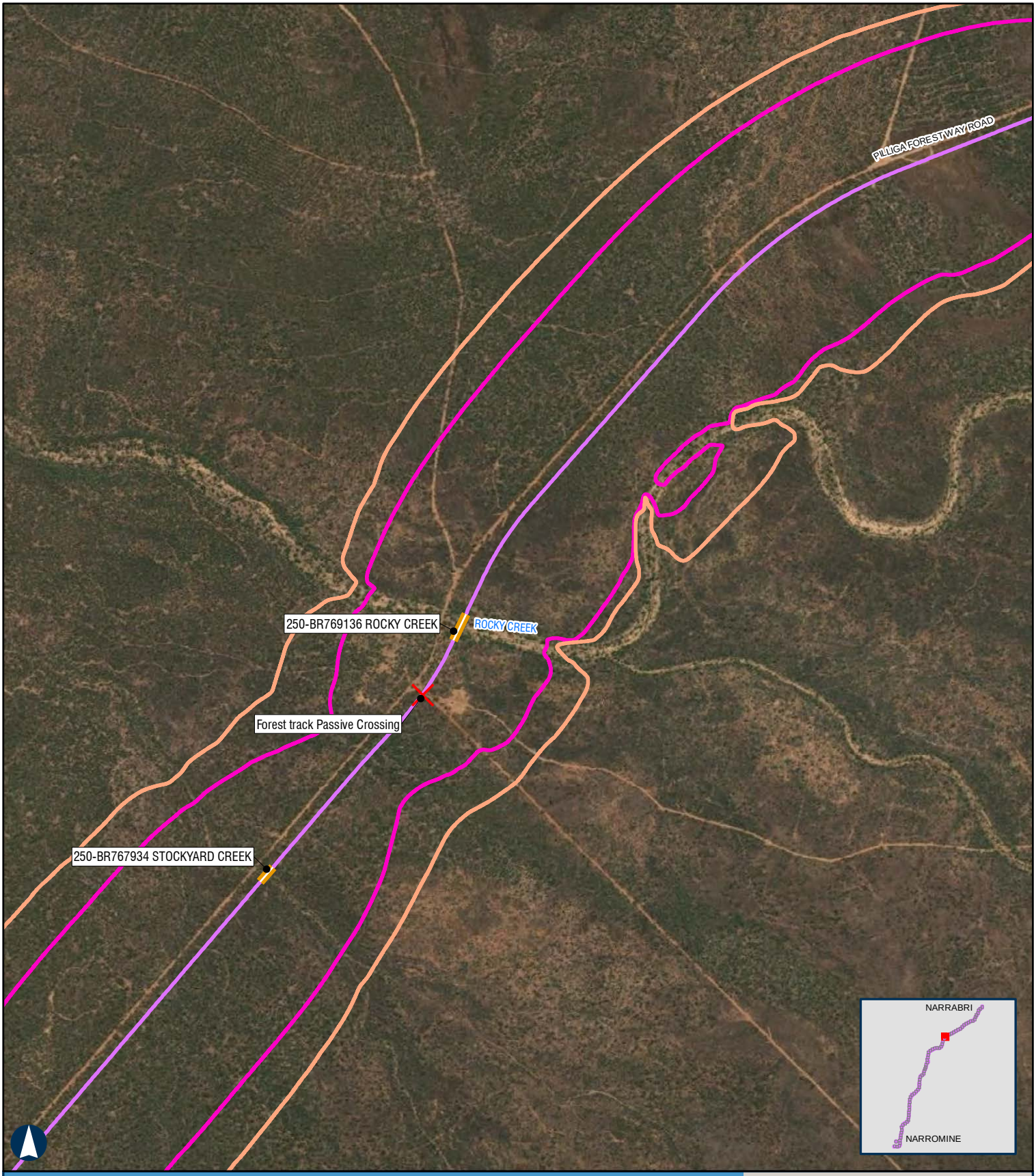
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Year 2040 Night-time Rail Noise Levels

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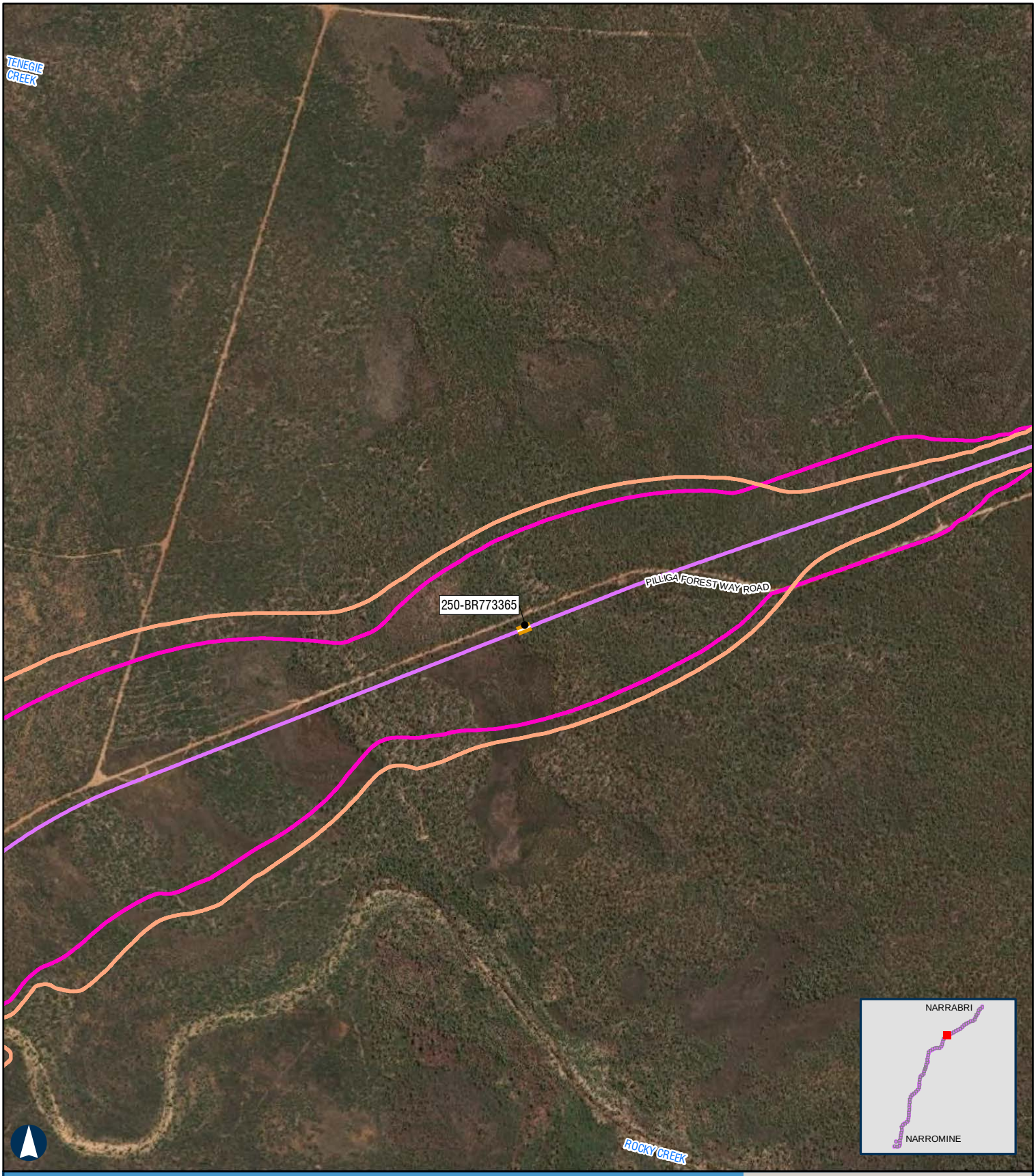
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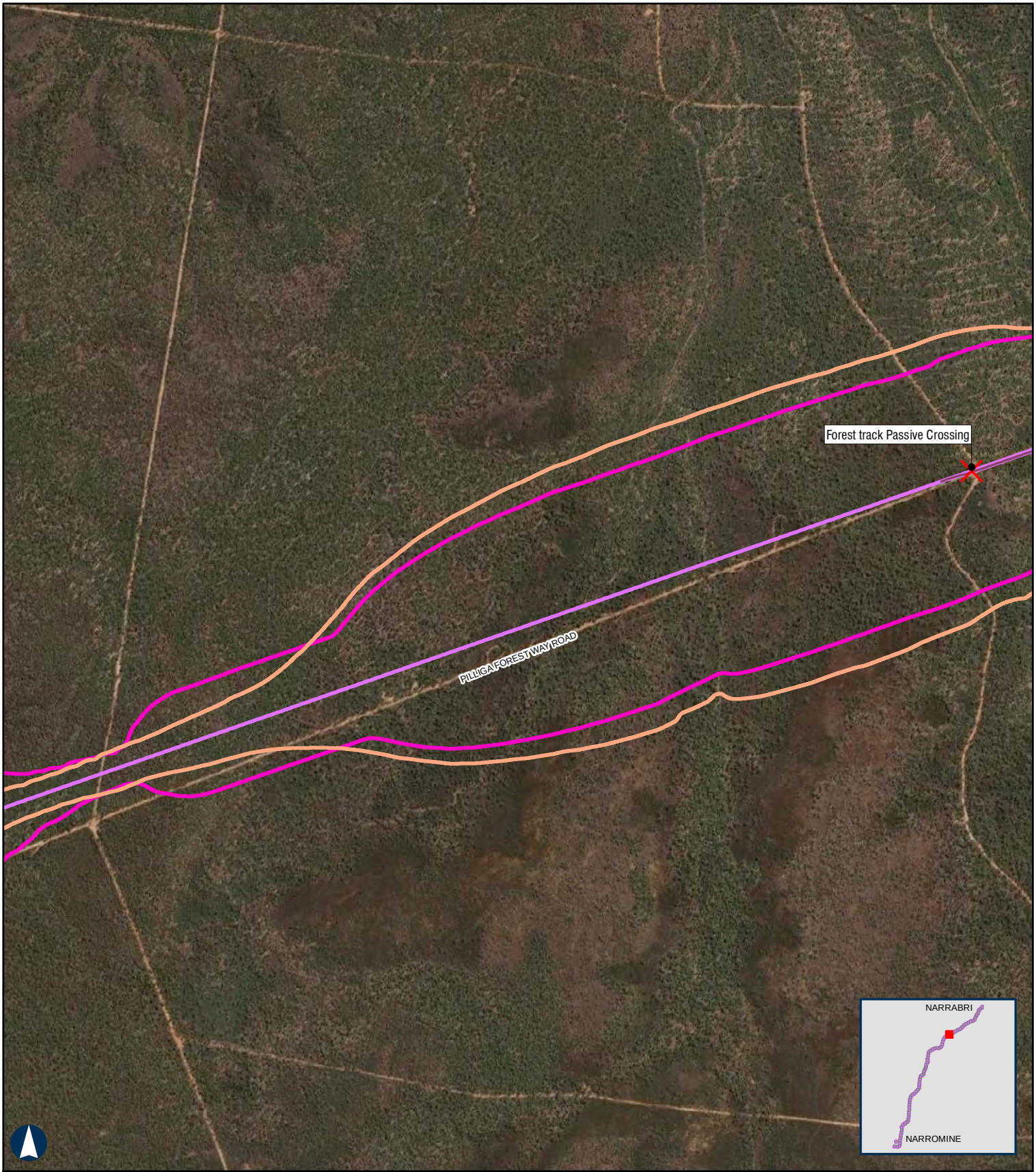
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 130 of 148

500 m

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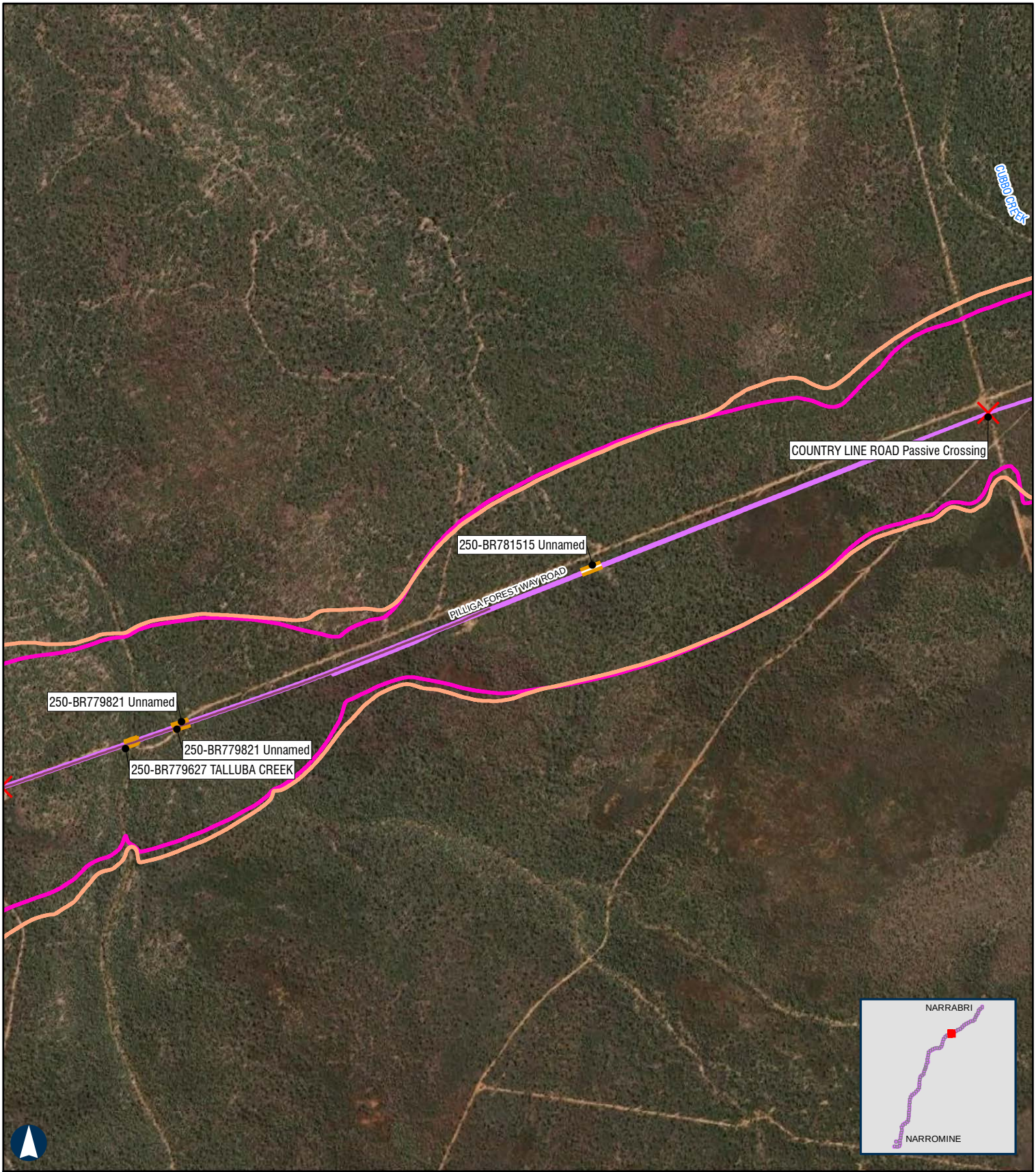
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 131 of 148

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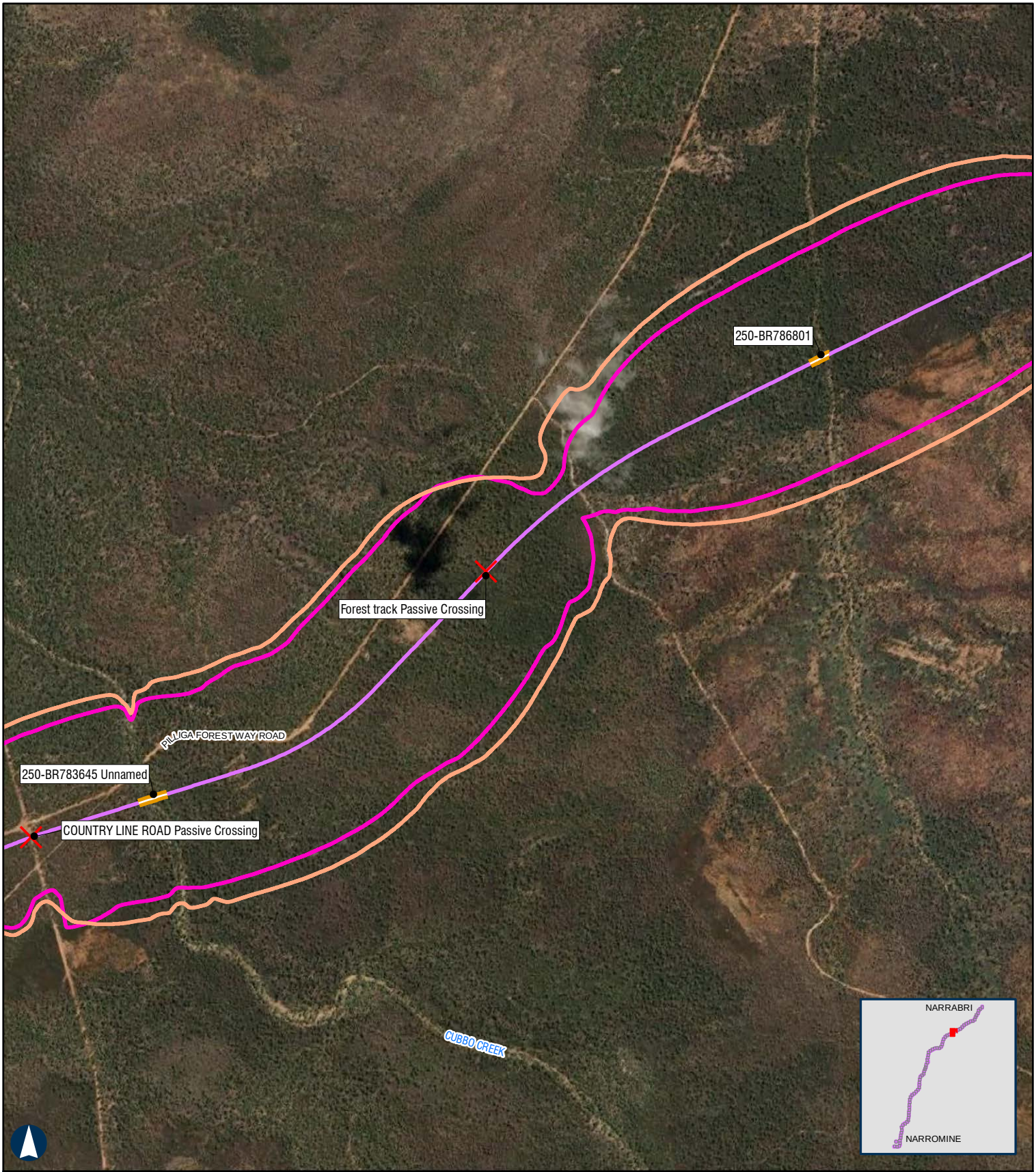
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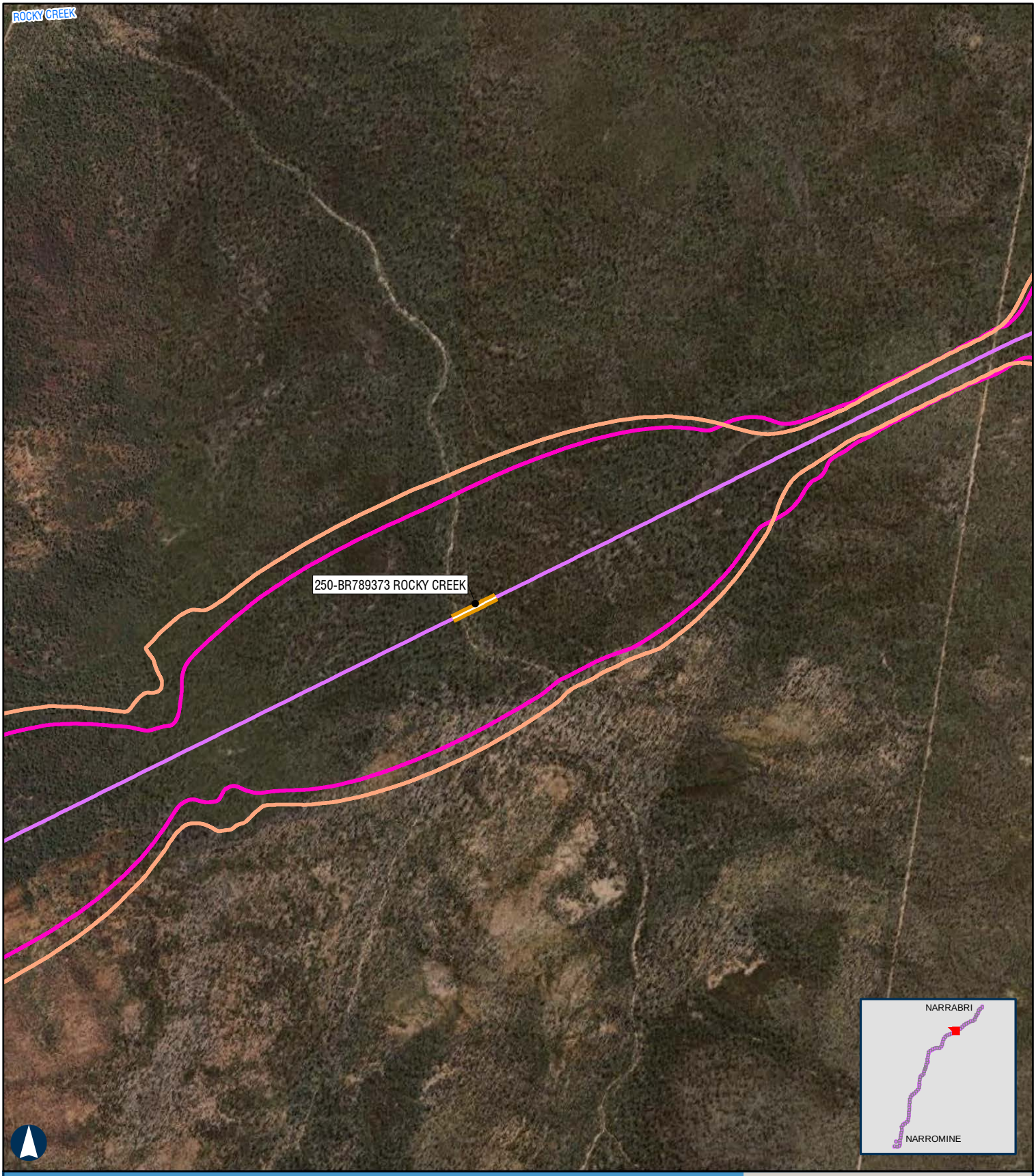
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Date: 01-Feb-2022
Author: JG

- Level Crossings
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- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

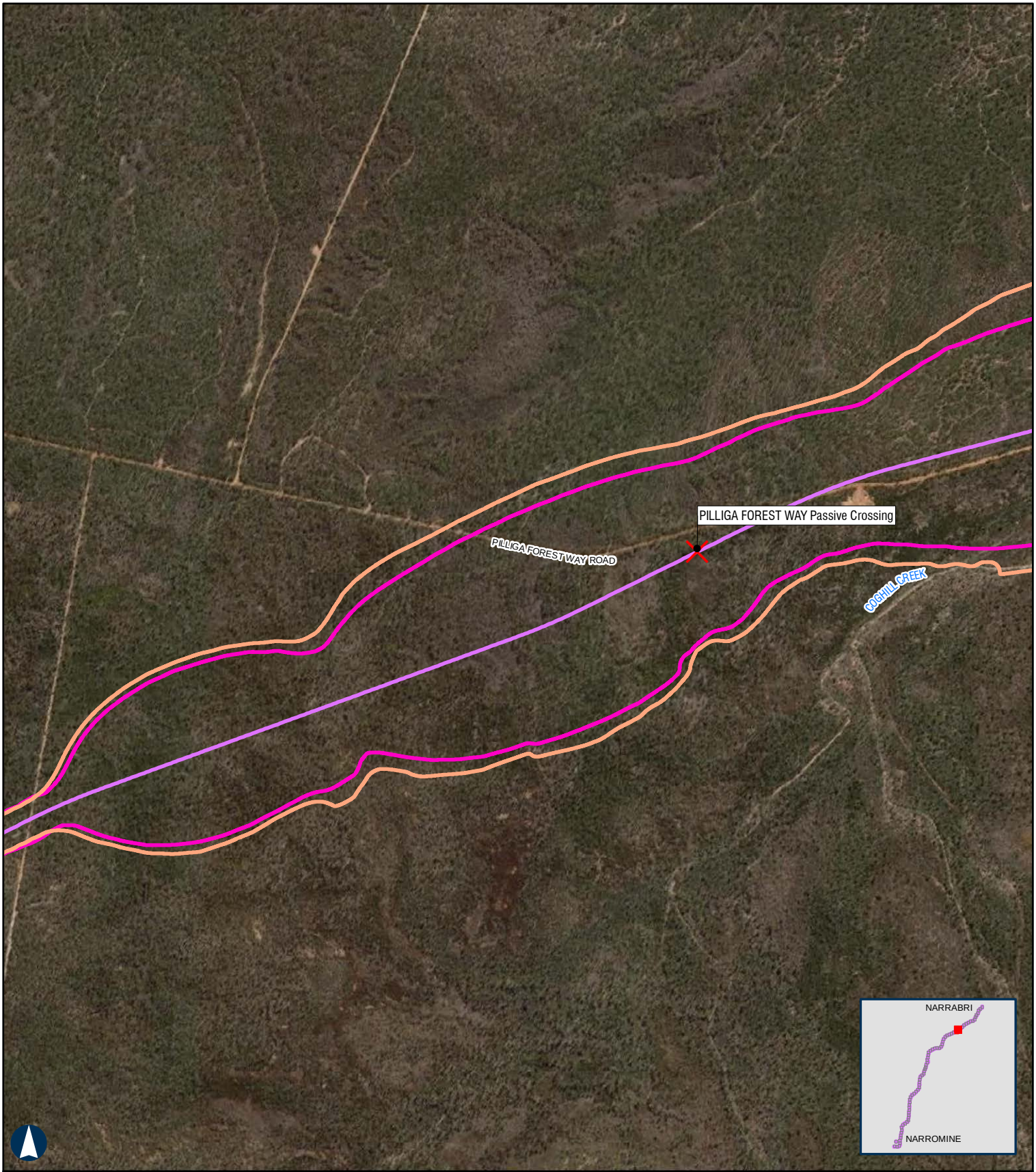
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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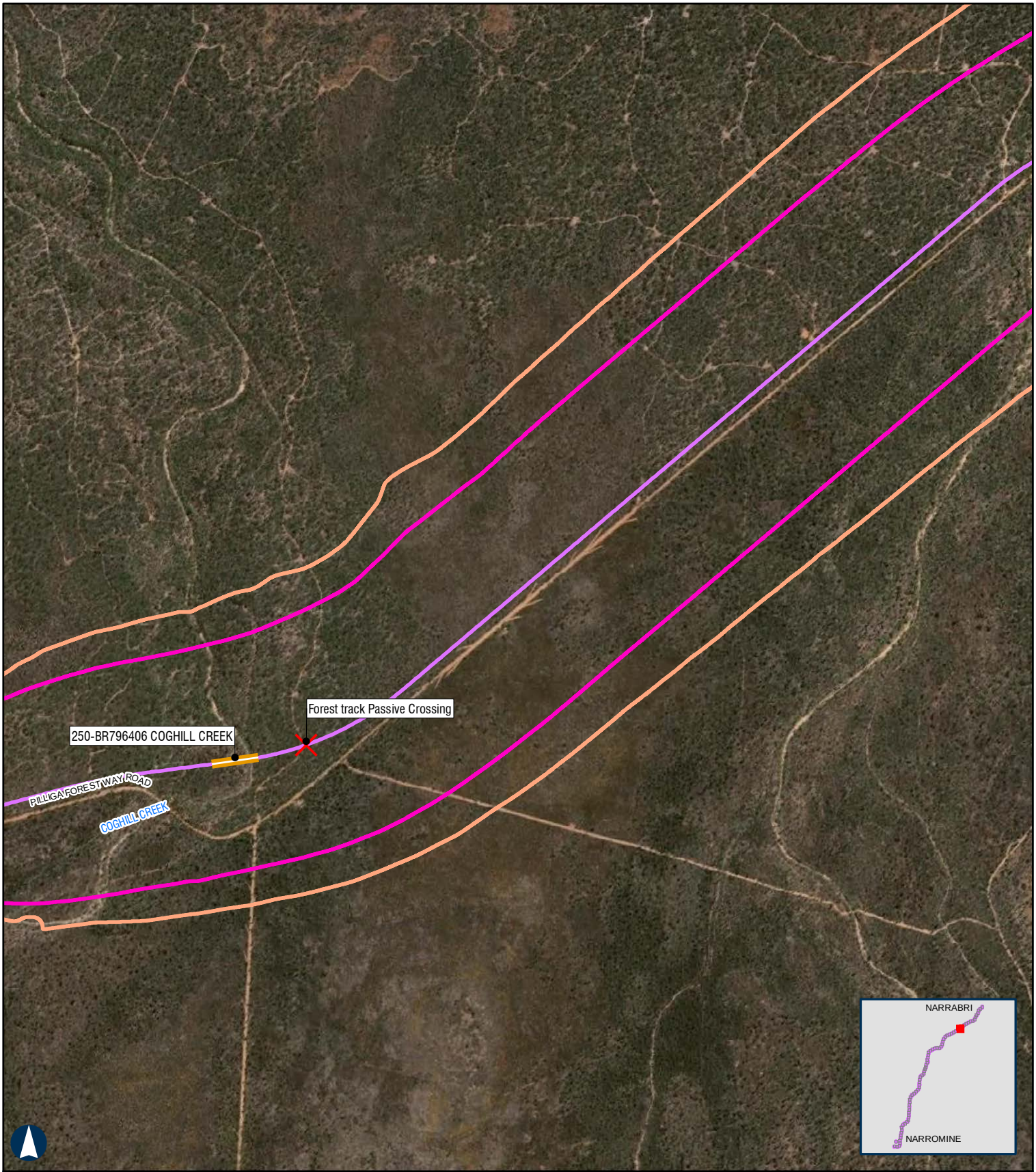
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 135 of 148

500 m

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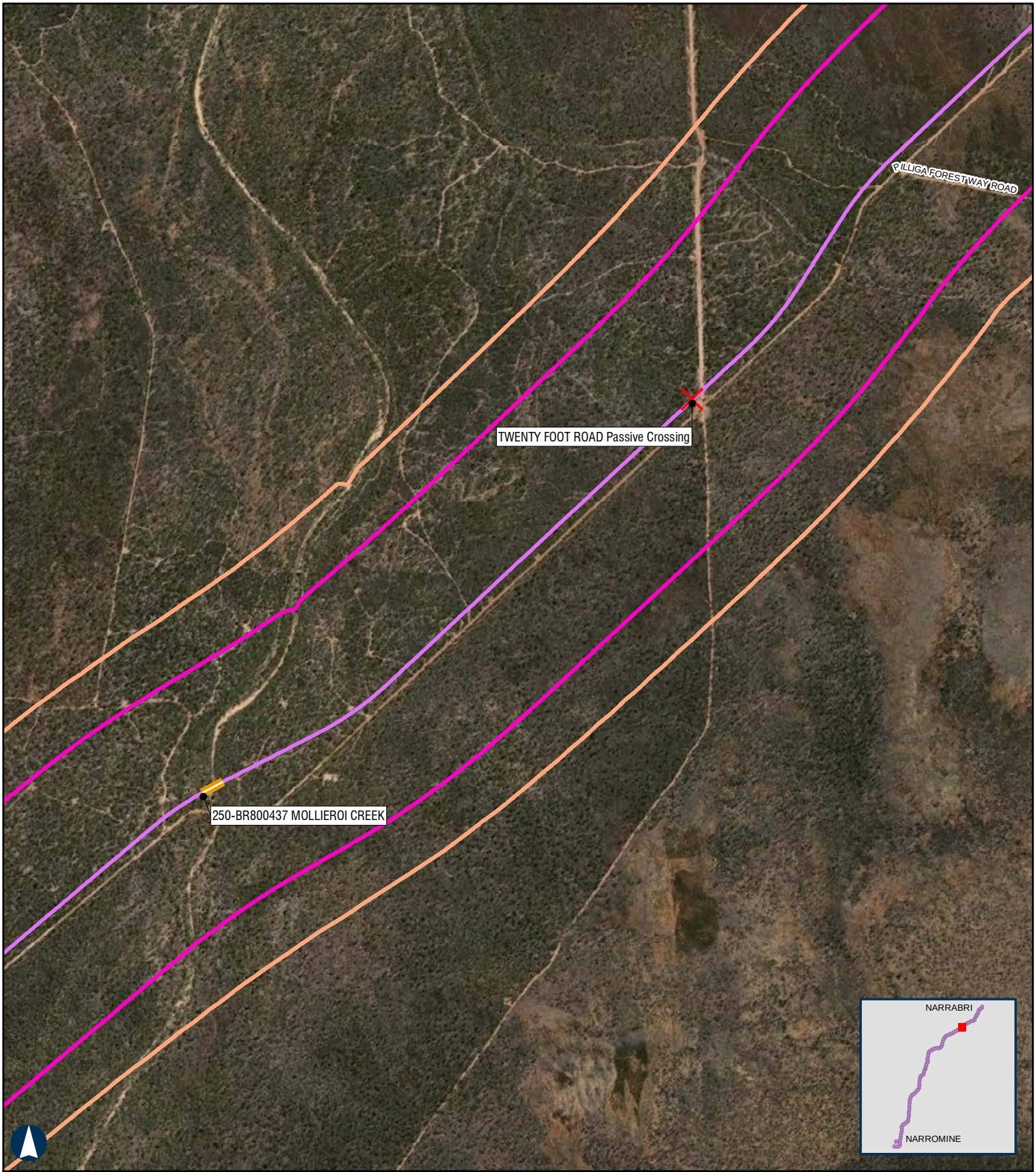
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 136 of 148

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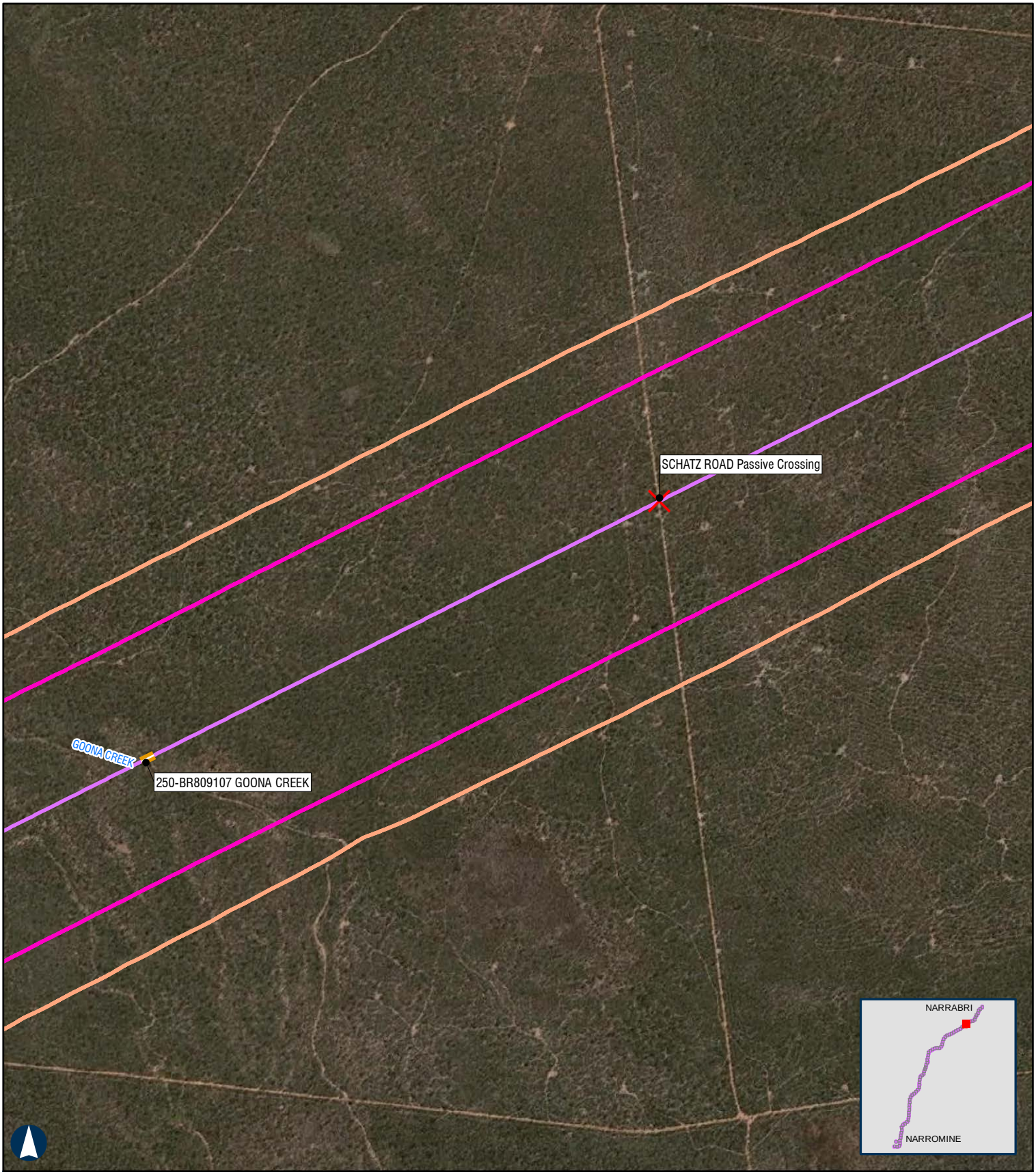
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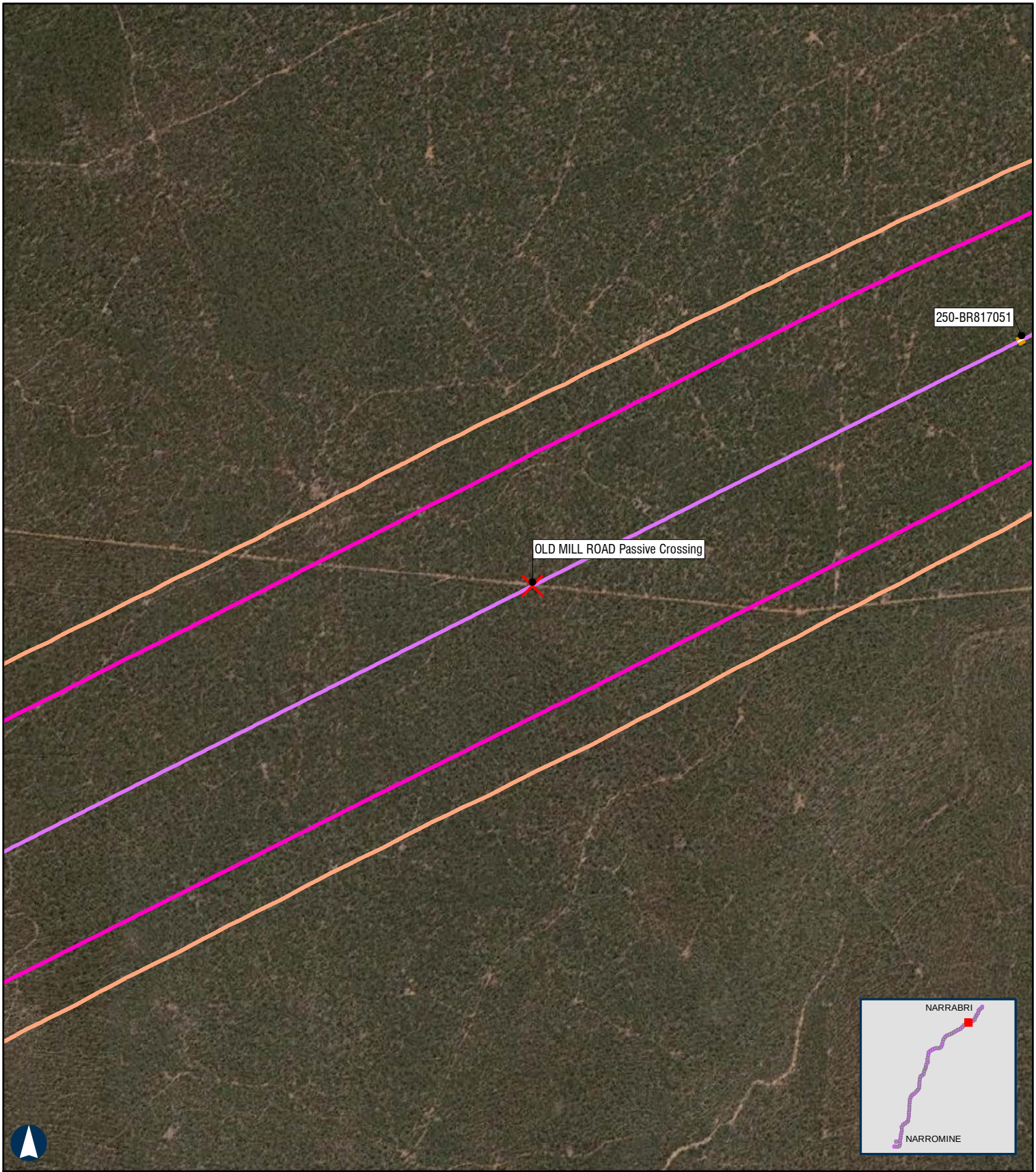
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 139 of 148

500 m

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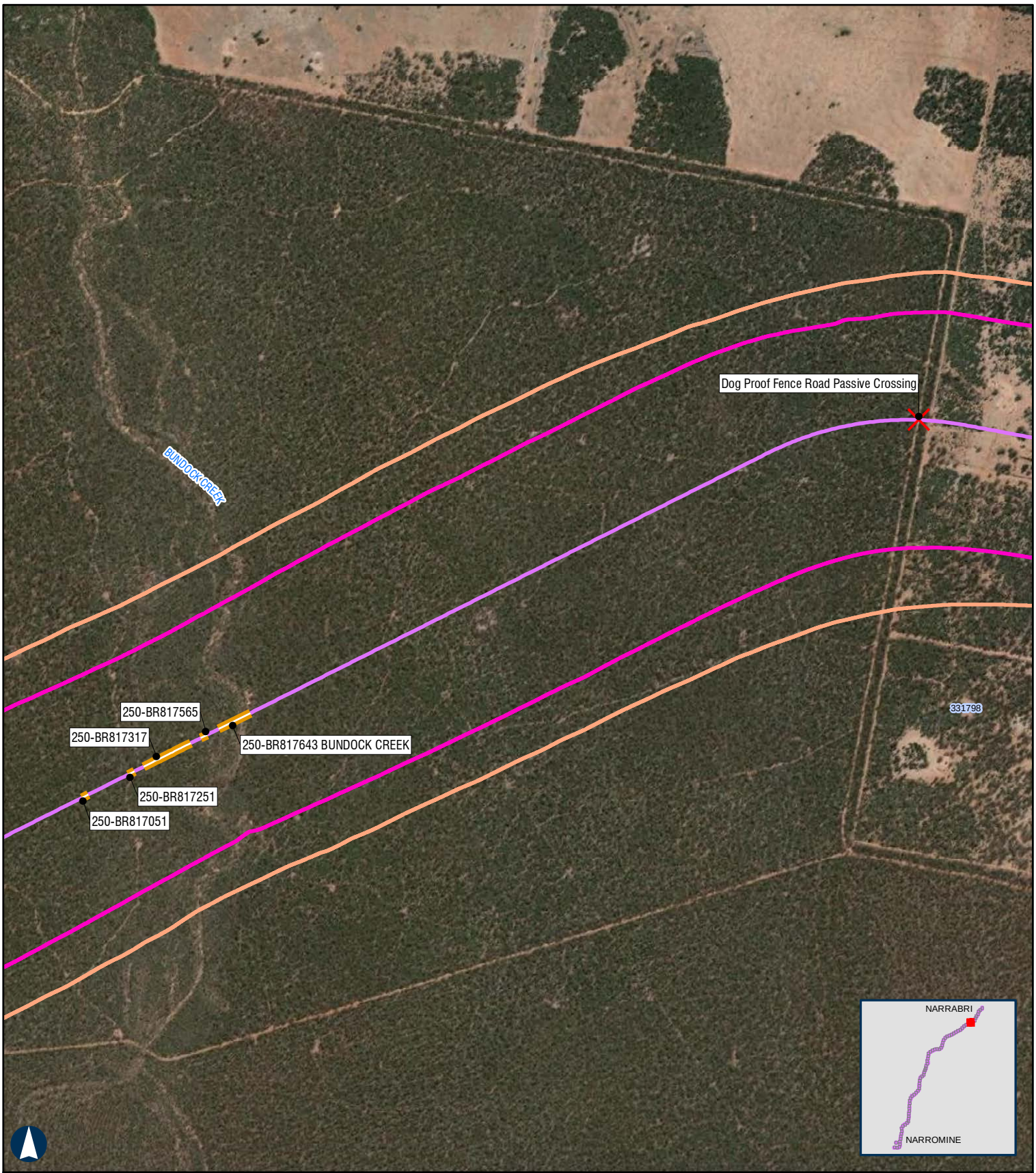
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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 140 of 148

500 m

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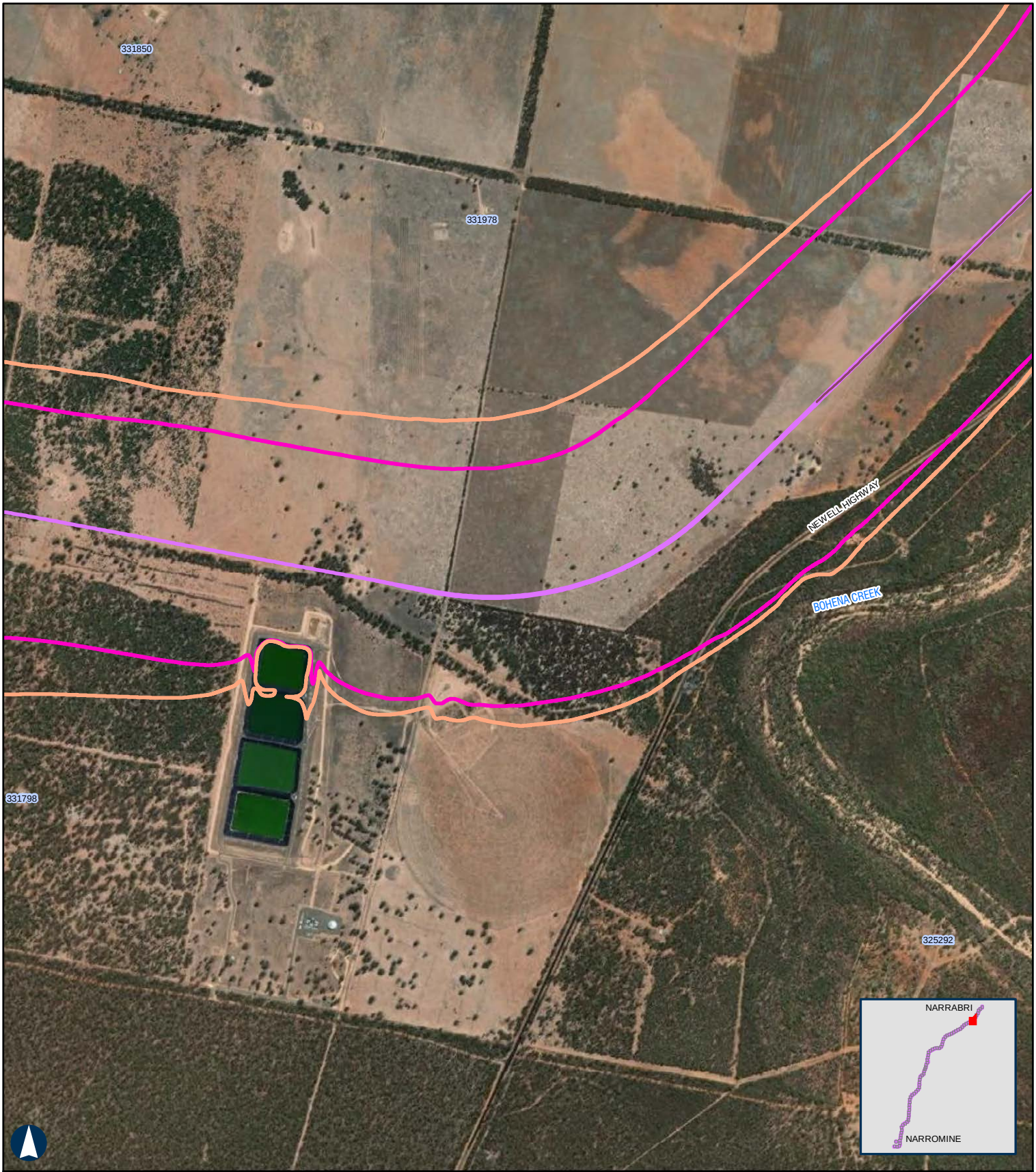
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Year 2040 Night-time Rail Noise Levels

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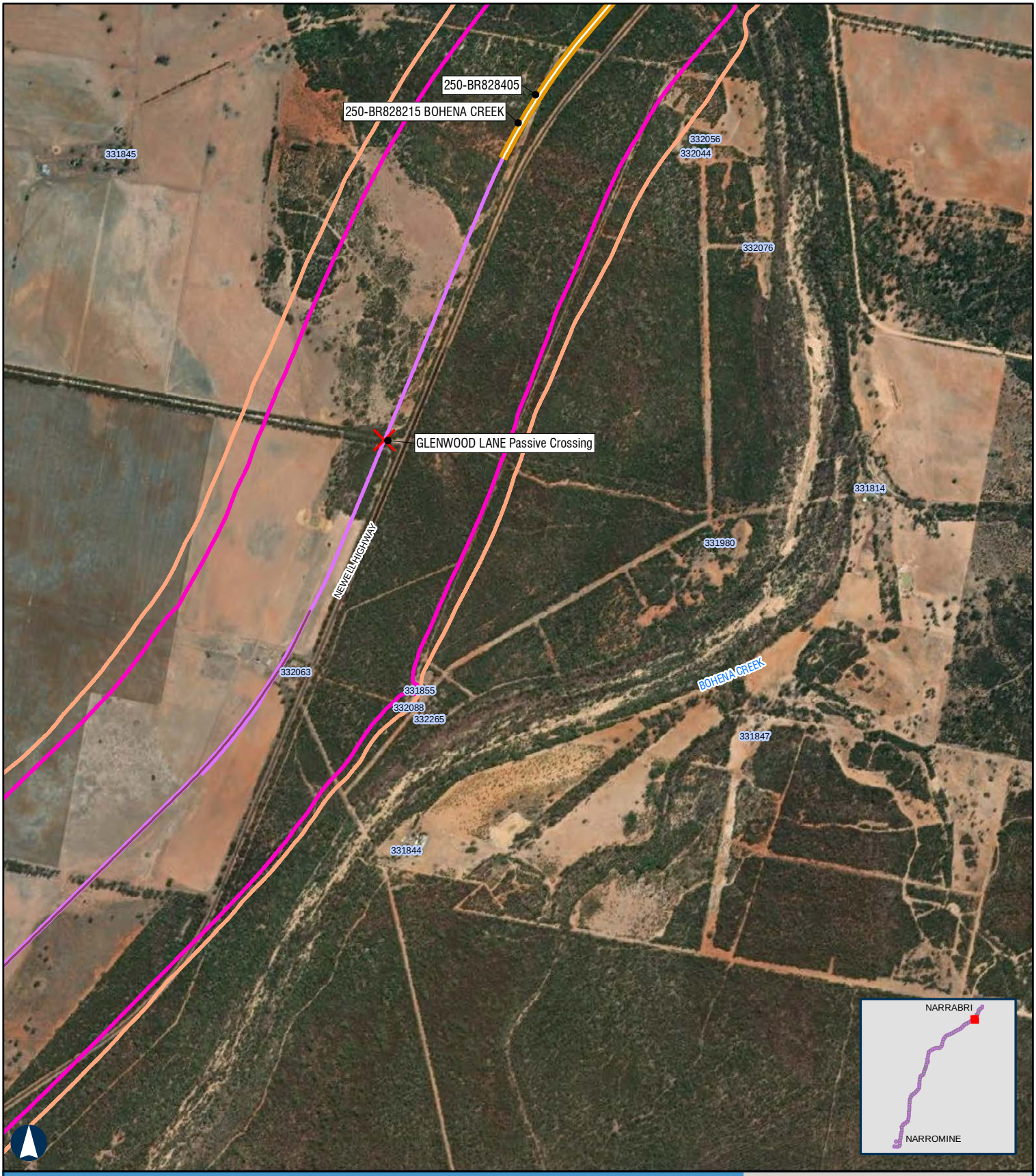
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 142 of 148

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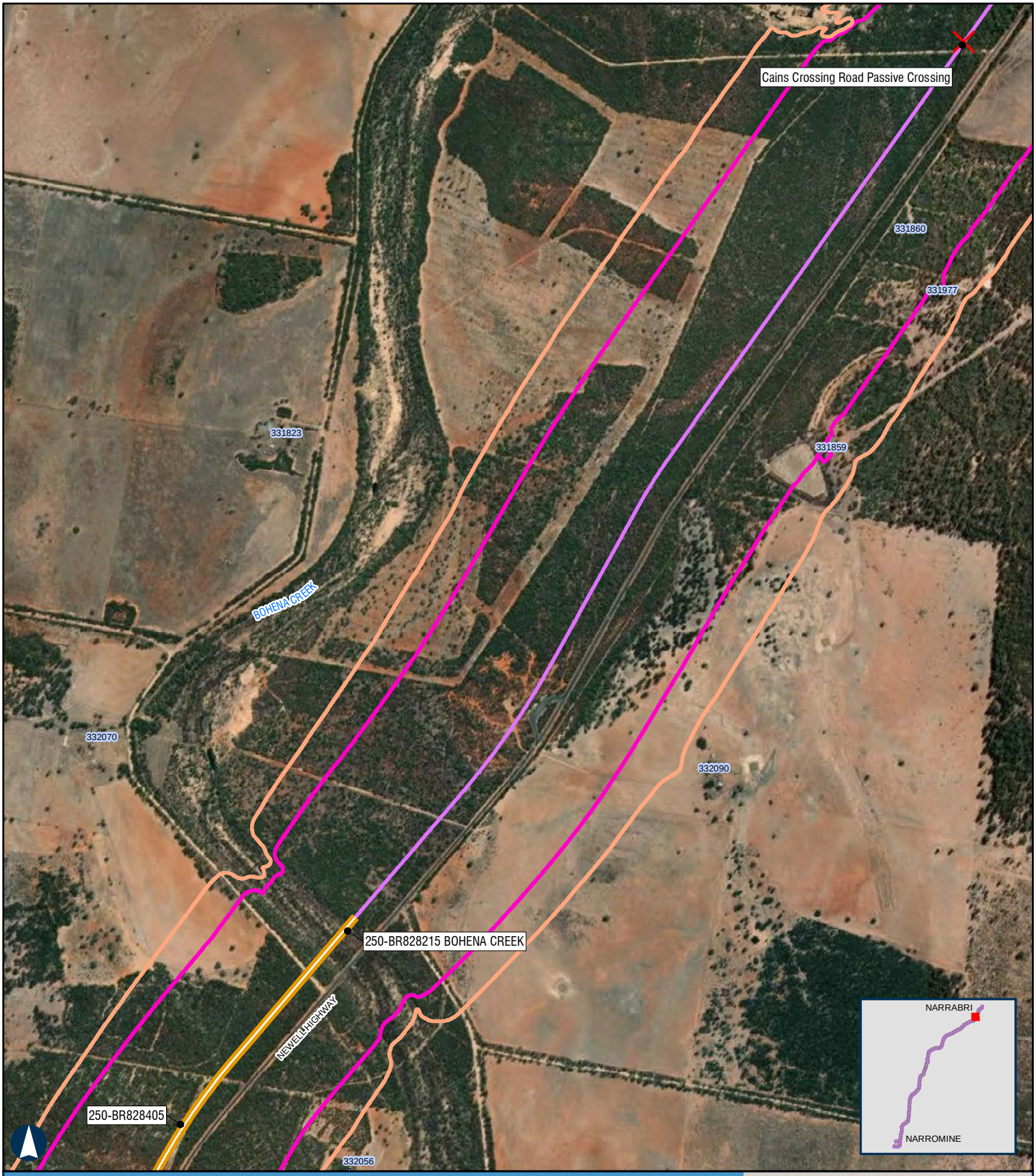
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Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 143 of 148

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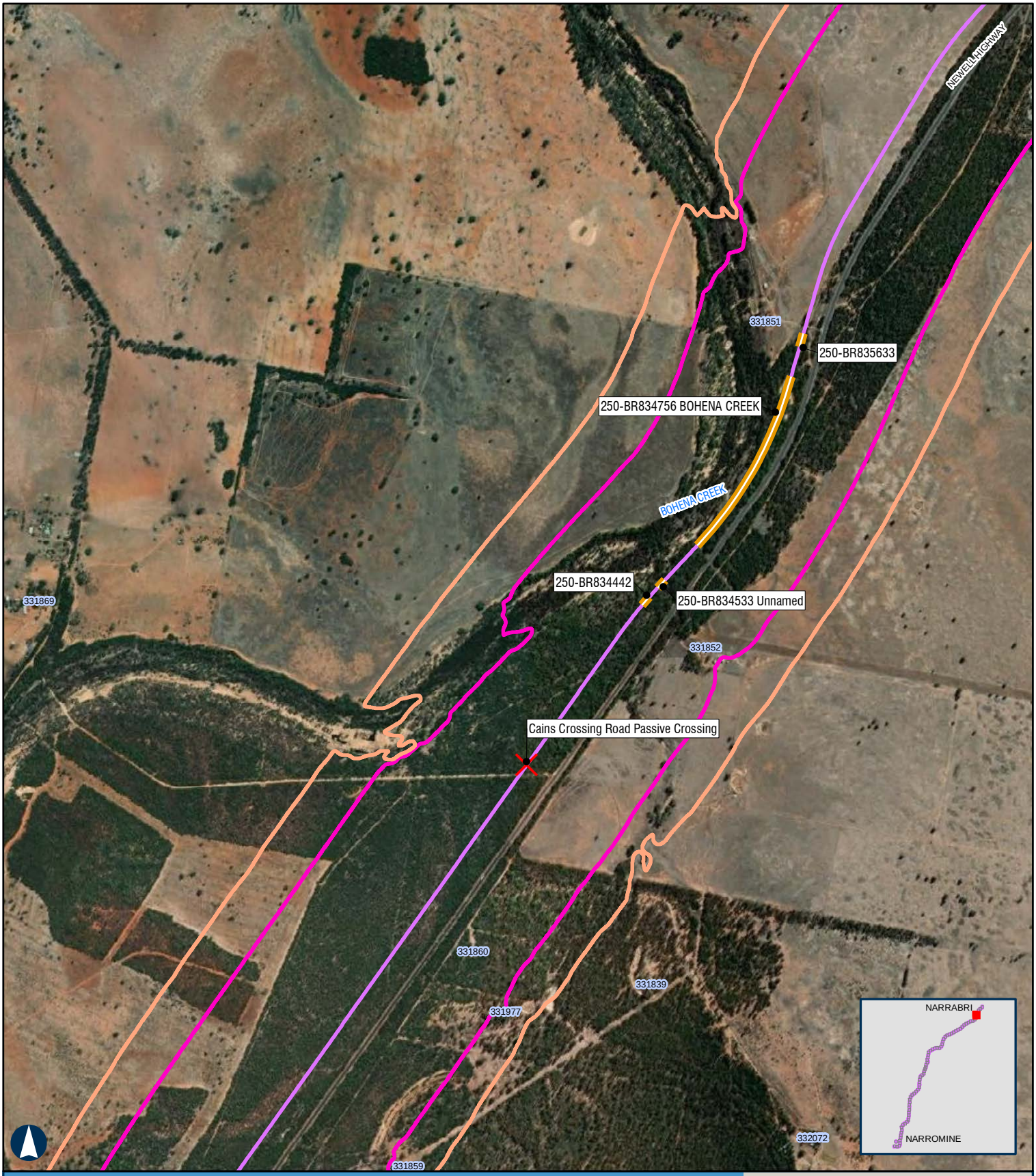
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APPENDIX E - Map 144 of 148

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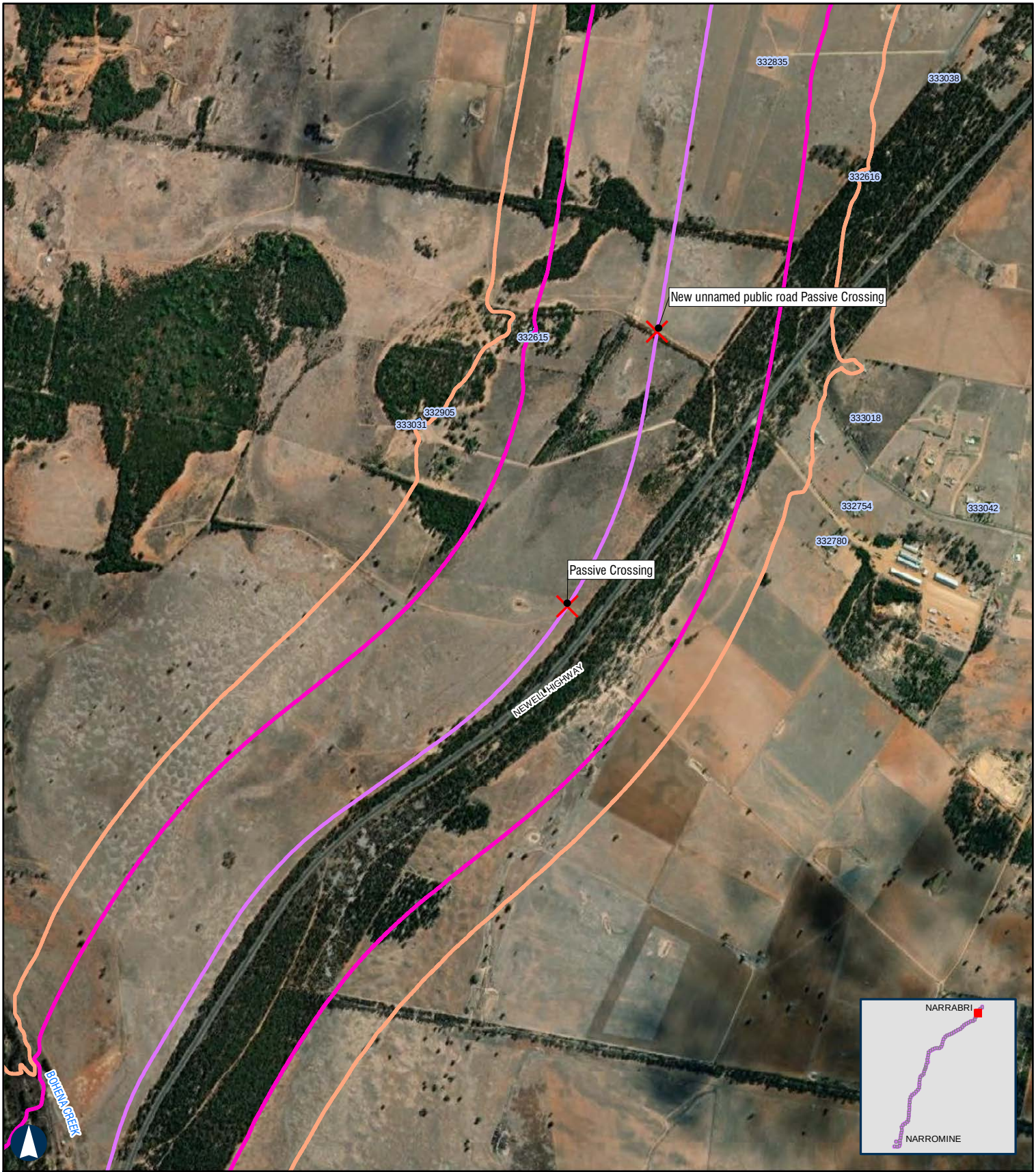
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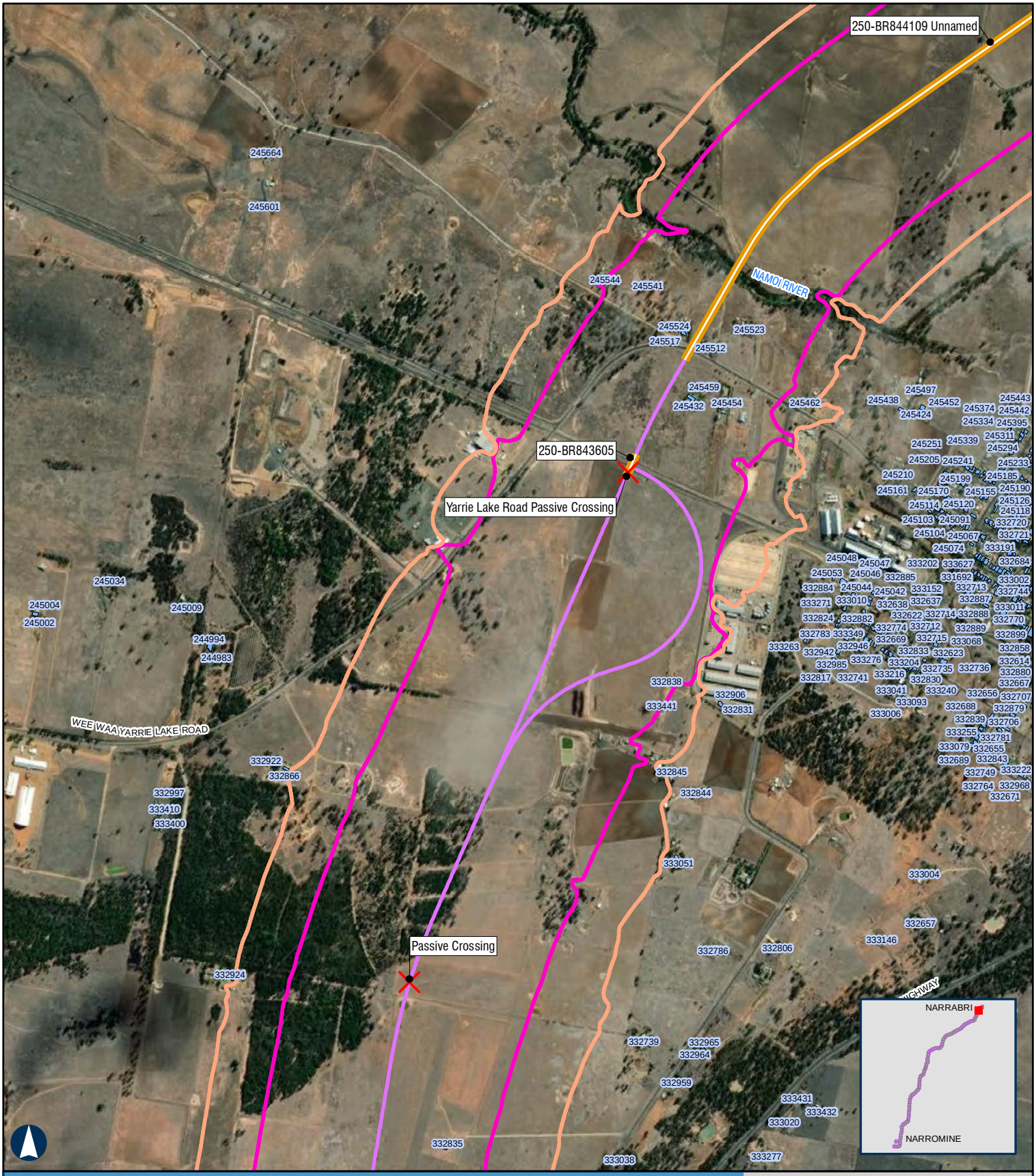
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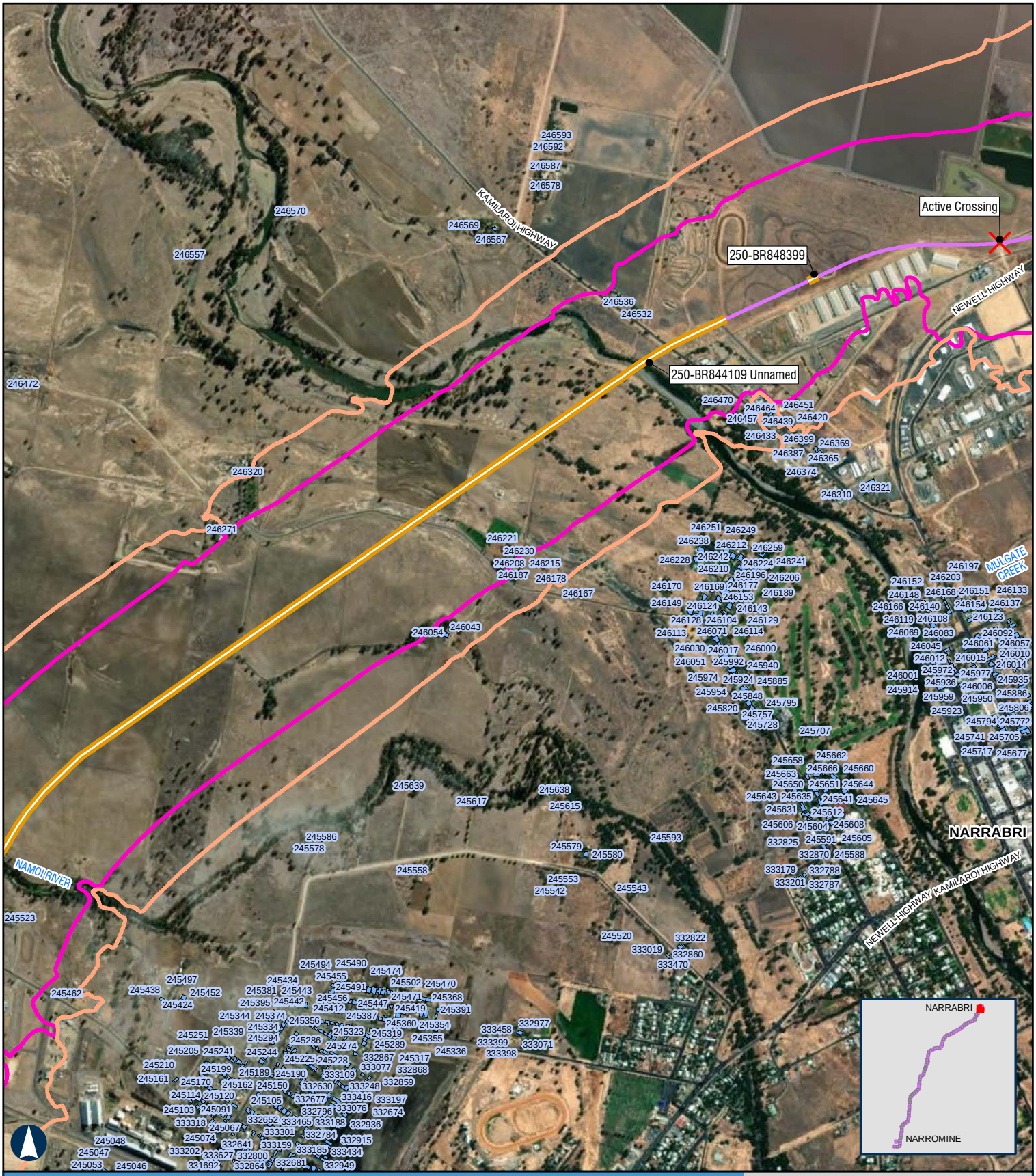
Noise contours are based on a set distance above the local terrain level of 2.4m.

ARTC InlandRail

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NARROMINE TO NARRABRI Year 2040 Night-time Rail Noise Levels

APPENDIX E - Map 147 of 148

500 m

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A4 Scale: 1:20,000
Date: 01-Feb-2022
Author: JG

- Level Crossings
- Proposal Extent
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- Sensitive Receivers
- Noise Assessment Area – Upgrading Existing Railway

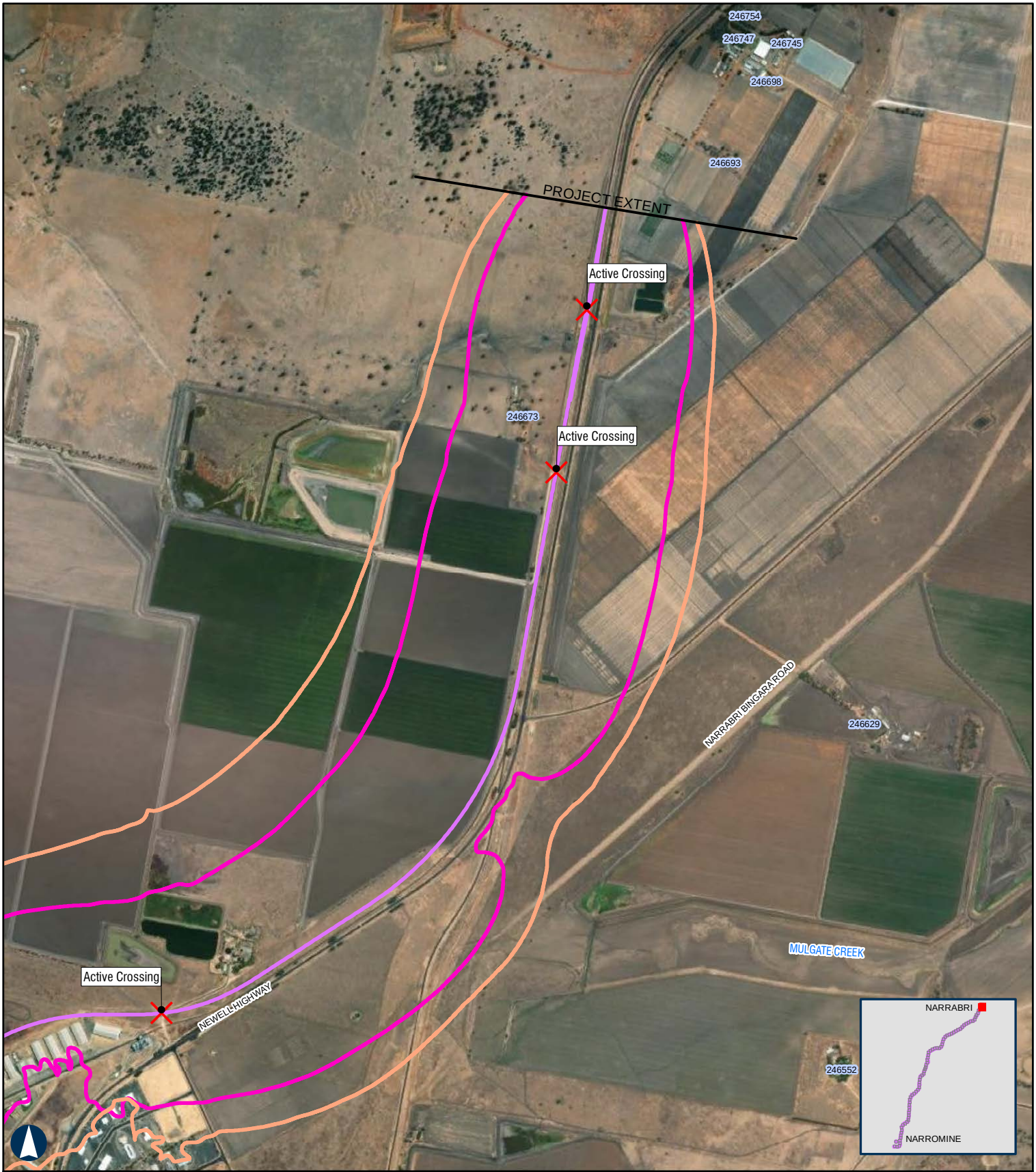
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- Night-time noise criteria LAeq 9hr 55dBA new rail corridor
- Night-time noise criteria LAeq 9hr 60dBA upgrading existing rail corridor
- Night-time noise criteria LA max 80dBA new rail corridor
- Night-time noise criteria LA max 85dBA upgrading existing rail corridor

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NARROMINE TO NARRABRI

Year 2040 Night-time Rail Noise Levels

500 m

Coordinate System: GDA 1994 MGA Zone 55

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