

Traction Substations Site Selection - Sifting										
Islandbridge										
					-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network					
					Intervention		Assessment			
					-		-			
Options Level 1 (PC 2)	Option 0: Do Nothing	Engineering	Feasibility			Leave As Is	-	Fail	Electrification of project not achieved without substations	
			Constructability						●	Non-compliance with the power study
			Safety						●	
			Requirements						●	
			Compliance with tolerance of Power Study						●	
			Proximity to the railway						●	
	Accessibility to the public road network			●						
	Option 1:	Engineering	Feasibility			Construct traction power substation	●	Pass	Feasible, but difficult	
			Constructability						●	OK Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road immediately adjacent
			Safety						●	
			Requirements						●	
			Compliance with tolerance of Power Study						●	
Proximity to the railway			●							
Accessibility to the public road network			●							
Economy		Investment guidelines and programme for DART+					Compatible with the investment guidelines and programme for DART+			
Environment							No impact on Environmental sites of National of International signifiacnce.			

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Intervention **Assessment**

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Options Level 1 (PC2)

Option 2:	Engineering	Feasibility	Provide power distribution for traction power
		Requirements	Constructability Safety Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network
	Economy		Investment guidelines and programme for DART+
	Environment		

Construct traction power substation	●	Pass	Feasible
	●		OK
	●		Located within Power Study modelling tolerance
	●		Located adjacent to the proposed SLOW lines
	●		Public road accessible via adjacent residential development
			Compatible with the investment guidelines and programme for DART+
			No impact on Environmental sites of National of International signifiacne.

Option 3:	Engineering	Feasibility	Provide power distribution for traction power
		Requirements	Constructability Safety Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network
	Economy		Investment guidelines and programme for DART+
	Environment		

Construct traction power substation	●	Pass	Feasible
	●		OK
	●		Located within Power Study modelling tolerance
	●		Located adjacent to the proposed SLOW lines
	●		Public road accessible via adjacent residential development
			Compatible with the investment guidelines and programme for DART+
			No impact on Environmental sites of National of International signifiacne.

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Options Level 1 (PC 2)	Option 4:	Engineering	<p>Feasibility Provide power distribution for traction power Constructability Safety</p> <p>Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network</p>
	Economy	Environment	<p>Investment guidelines and programme for DART+</p>
Option 5:	Engineering	<p>Feasibility Provide power distribution for traction power Constructability Safety</p> <p>Requirements Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network</p>	<p>Investment guidelines and programme for DART+</p>
Economy	Environment		

●	●	Pass	Feasible
●	●		OK
●	●		Located within Power Study modelling tolerance
●	●		Located adjacent to the proposed SLOW lines
●	●		Public road immediately adjacent
●	●		Compatible with the investment guidelines and programme for DART+
●	●		No impact on Environmental sites of National of International signifiante.
●	●	Pass	Feasible
●	●		OK
●	●		Located within Power Study modelling tolerance
●	●		Located adjacent to the proposed SLOW lines
●	●		Public road accessible via adjacent residential development
●	●		Compatible with the investment guidelines and programme for DART+
●	●		No impact on Environmental sites of National of International signifiante.