



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
630m Length of Access Track and Underground Cabling within the Burn of Arisdale Catchment As shown on Figure 15.1	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.	Long-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
470m Length of Access Track and Underground Cabling within the Burn of Neapaback As shown on Figure 15.1	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			Long-Term, Reversible,	Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor



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	Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
3756m Length of Access Track and Underground Cabling within Burn of Hamnavoe Catchment As shown on Figure 15.1	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat and GWDTE Supporting Material	Very High	Negligible	Minor	No
	Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Water in Peat			Very High	Negligible	Minor	No	
4212m Length of Access Track and Underground Cabling within Green Burn and Burn of Holigarth	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
		Long-Term, Reversible,	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No



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Catchment As shown on Figure 15.1	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	1317m Length of Access Track and Underground Cabling within Burn of Kettlester Catchment As shown on Figure 15.1	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor
'Yell' Bedrock Aquifer				Very High	Negligible	Minor	No
Water in Peat				Very High	Negligible	Minor	No
Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.		Long-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.		Long-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Pollution from spills or leakage of fuel and oil from use of machinery.		Short-Term, Reversible,	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No



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		Adverse and Local	Water in Peat	Very High	Negligible	Minor	No
1249m Length of Access Track and Underground Cabling within Burn of Horsewater and Burn of Hummelton Catchment As shown on Figure 15.1	Increased sediment mobilisation and transport from road material through surface wash.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat and GWDTE Supporting Material	Very High	Negligible	Minor	No
	Disruption to lateral flow (throughflow in peat and runoff) from the placement of aggregate.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Watercourse Crossing WX1	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
Watercourse Crossing WX2	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible,	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No



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		Adverse and Local					
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
Watercourse Crossing WX3	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
Watercourse Crossing WX4	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
Watercourse Crossing WX5	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
Watercourse Crossing WX6	Disruption/blockage of watercourse flow from watercourse crossing.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No



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	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
Turbine 1 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
		'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
		Water in Peat	Very High	Negligible	Minor	No	
Turbine 2 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
		Long-Term, Reversible,	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No



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Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Turbine 3 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic	Long-Term, Reversible,	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
'Yell' Bedrock Aquifer			Very High	Negligible	Minor	No	



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	connectivity of the peatland in the surrounding area.	Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Turbine 4 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
				'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Water in Peat				Very High	Negligible	Minor	No	
Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.		Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.		Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	



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Turbine 5 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
		'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
		Water in Peat	Very High	Negligible	Minor	No	
Turbine 6 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
		Long-Term, Reversible,	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No



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	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Turbine 7 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor
'Yell' Bedrock Aquifer				Very High	Negligible	Minor	No
Water in Peat				Very High	Negligible	Minor	No
Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.		Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible,	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation								
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **	
		Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
Turbine 8 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
	Turbine 9 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No
				Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
'Yell' Bedrock Aquifer				Very High	Negligible	Minor	No	



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Turbine 10 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
		Long-Term, Reversible,	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Adverse and Local	Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Turbine 11 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation								
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **	
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Turbine 12 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
			Short-Term, Reversible,	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Turbine 13 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
'Yell' Bedrock Aquifer			Very High	Negligible	Minor	No	
Water in Peat			Very High	Negligible	Minor	No	
Turbine 14 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible,	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation								
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **	
		Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Turbine 15 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
				'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Water in Peat				Very High	Negligible	Minor	No	
Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.		Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Impermeable underground structure that may disrupt and/or disconnect the hydraulic		Long-Term, Reversible,	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	



Hydrology and Hydrogeology Impact Assessment with Mitigation								
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **	
	connectivity of the peatland in the surrounding area.	Adverse and Local	Water in Peat	Very High	Negligible	Minor	No	
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
	Turbine 16 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
				'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
				Water in Peat	Very High	Negligible	Minor	No
		Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
				'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Water in Peat				Very High	Negligible	Minor	No	
Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.		Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.		Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	
Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.		Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
			Water in Peat	Very High	Negligible	Minor	No	



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
Turbine 17 and Associated Hardstanding Area	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Increased impermeable area may lead to increased runoff and shorter rainfall-runoff response time.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Impermeable underground structure that may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Pollution from spills or leakage of concrete or equivalent and fuel, and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No	
		'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No	
		Water in Peat	Very High	Negligible	Minor	No	
Borrow Pit 1	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Removal of overburden and stone may cause changes to the groundwater recharge.	Long-Term, Irreversible,	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No	



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Pollution from spills or leakage of fuel and oil from use of machinery.	Adverse and Local	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
		Short-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Borrow Pit 2	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Removal of overburden and stone may cause changes to the groundwater recharge.	Long-Term, Irreversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
Borrow Pit 3	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Removal of overburden and stone may cause changes to the groundwater recharge.	Long-Term, Irreversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Borrow Pit 4	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Removal of overburden and stone may cause changes to the groundwater recharge.	Long-Term, Irreversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Site Compound and Substation	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Placement of aggregate may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Long-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
Anemometry Mast and Telecommunications Tower	Removal of vegetation reduces interception and evapotranspiration rates and increases runoff.	Long-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Removal of peat may disrupt and/or disconnect the hydraulic connectivity of the peatland in the surrounding area.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Neapaback Catchment (Surface Waters)	Medium	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
Maintenance	Pollution from spills and leaks of fuel and oil from vehicles.	Short-Term, Reversible, Adverse and Local	Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
			Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No			
Decommission of Principal Features and Restoration	Decrease in impermeable area leading to pre-development runoff conditions and pre-development rainfall-runoff response time.	Long-Term, Irreversible, Neutral and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
	'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No		
	Re-vegetation may lead to pre-development interception and evapotranspiration rates and pre-development runoff conditions.	Long-Term, Irreversible, Neutral and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No



Hydrology and Hydrogeology Impact Assessment with Mitigation							
Project Component	Potential Impacts	Nature and Geographical Significance of Impact	Receptor	Sensitivity of Receptor	Magnitude of Change from Baseline*	Scale of Impacts	Significant Effect? **
			Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Reinstatement of peat profile may lead to pre-development infiltration rates and to pre-development runoff conditions.	Long-Term, Irreversible, Neutral and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Water in Peat	Very High	Negligible	Minor	No
			'Yell' Bedrock Aquifer	Very High	Negligible	Minor	No
	Pollution from spills or leakage of fuel and oil from use of machinery.	Short-Term, Reversible, Adverse and Local	Burn of Arisdale Catchment (Surface Waters)	High	Negligible	Minor	No
			Burn of Kettlester Catchment (Surface Waters)	Very High	Negligible	Minor	No
			Burn of Hamnavoe Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Green Burn and Burn of Holligarth Catchment (Surface Waters)	Medium	Negligible	Minor	No
			Burn of Horsewater and Burn of Hummelton Catchment (Surface Waters)	Medium	Negligible	Minor	No
Water in Peat			Very High	Negligible	Minor	No	
'Yell' Bedrock Aquifer			Very High	Negligible	Minor	No	

Note

* Mitigation measures have been incorporated into the design of the Proposed Development and during construction measures in the OCEMP would prevent harm to the water environment. The impact assessment has considered the magnitude of change from the baseline with mitigation in place.

** Impacts that have been determined to be major or moderate are considered to have a significant effect. Impacts that are identified as minor or negligible are not considered to have a significant effect.