

Appendix 11G

Summary of Significance of Predicted Geology, Hydrology and Hydrogeology Effects



A summary of the results of the assessment set out in **Chapter 11** is provided in **Table 11G.1**.

Table 11G.1 Summary of Significance of Predicted Geology, Hydrology and Hydrogeology Effects

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Bedrock aquifer and WFD groundwater body AQ01	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in loss of water resource	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of both Development Site and regional aquifer, low permeability of aquifer, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to aquifer baseline condition
	Dewatering during construction associated with excavation of turbine foundations and borrow pits leading to a decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in loss of water resource	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of both Development Site and regional aquifer, low permeability of aquifer, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to aquifer baseline condition
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and resulting in loss of water resource	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of both Development Site and regional aquifer, low permeability of aquifer, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to aquifer baseline condition
Bennadrove landfill L01	Areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and subsequent differential settlement and heave and damage to landfill's basal liner, and disrupting landfill operation	Very low	Medium	Negligible (NS)	Limited extent of proposed works in vicinity of Bennadrove Landfill, low permeability of aquifer and peat, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to landfill operation

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Dewatering during construction associated with excavation of turbine foundations and borrow pits leading to a decline in groundwater levels and subsequent differential settlement and heave and damage to landfill's basal liner, and disrupting landfill operation	Very low	Medium	Negligible (NS)	Limited extent of proposed works in vicinity of Bennadrove Landfill, low permeability of aquifer and peat, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to landfill operation
Spring alongside A859 S01	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and leading to derogation of spring	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of spring, low permeability of aquifer and peat, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to spring
	Dewatering during construction associated with excavation of turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and leading to derogation and/or pollution of spring	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of spring, low permeability of aquifer and peat, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to spring
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to pollution of spring	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of spring, low permeability of aquifer and peat, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to spring
Abhainn Lacasdail watercourse and WFD surface water body W01	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body
	Discharge to surface water of groundwater intercepted during construction associated with excavation of the turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body
	Site activities during construction, operation and decommissioning resulting in release of pollutants and the subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Allt Hogaraid watercourse W02	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with the excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Allt Hulabie watercourse W03	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Abhainn a' Ghlinn Mhòir watercourse W04	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of a total of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of a total of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of a total of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of a total of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Allt Airigh na Beiste watercourse W05	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	Very low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
Unnamed tributary from Loch a' Leadharain W06	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of four crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
Abhainn Ghrioda watercourse and WFD surface water body W07	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of twelve crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to watercourse and WFD surface water body
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of twelve crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to watercourse and WFD surface water body
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of twelve crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to watercourse and WFD surface water body
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse and WFD surface water body

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of twelve crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to watercourse an WFD surface water body
Feadan Loch Lochan watercourse W08	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of two crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
Unnamed tributaries of Abhainn Ghrioda to south of Feadan Loch Lochan W09	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of three crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of three crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of three crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of three crossings, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
Unnamed tributary of Abhainn Ghrioda from Loch Briodag W10	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of one crossing, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and changing watercourse flow and morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of one crossing, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Disruption of ground during construction leading to increased sediment loading, and changing watercourse morphology	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of one crossing, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and changing watercourse flow	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and sediment loading	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters	Very low	High	Minor (NS)	Limited extent of proposed works in vicinity of watercourse, with the exception of one crossing, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to watercourse
Properties and infrastructure on Abhainn Lacasdail downstream of site F01	Soil compaction, introduction of areas of hardstanding and changes of land use (e.g. deforestation) during construction and throughout operation, increasing runoff and flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, increasing flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk
Properties and infrastructure on Abhainn a' Ghlinn Mhòir downstream of site F02	Soil compaction, introduction of areas of hardstanding and changes of land use (e.g. deforestation) during construction and throughout operation, increasing runoff and flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, increasing flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits, and increasing flows and flood risk	Very low	Medium	Negligible (NS)	Limited extent of proposed works compared to area of river catchments and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to baseline flood risk
Marybank Quarry (borehole abstraction) A01	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and leading to derogation of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to a decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and leading to derogation and/or pollution of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Site activities during construction, operation and decommissioning resulting in release of pollutants and the subsequent contamination of groundwater, and leading to pollution of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction



Receptor	Effects	Magnitude ¹	Value ²	Significance	
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Creed Hatchery (abstraction from Abhainn Ghrioda) A02	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading at abstraction	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of seven upstream crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to abstraction
	Disruption of ground during construction leading to increased sediment loading at abstraction	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of seven upstream crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to abstraction
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and reducing watercourse flow and leading to derogation of abstraction	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits leading to increased sediment loading at abstraction	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to pollution of abstraction	Very low	Low	Negligible (NS)	Limited extent of proposed works in vicinity of watercourse, but a total of seven upstream crossings. Anticipated effectiveness of embedded environmental measures limit magnitude of change to abstraction
Druim Dubh PWS (surface water abstraction) A03	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading at abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Disruption of ground during construction leading to increased sediment loading at abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and reducing watercourse flow and leading to derogation of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits leading to increased sediment loading at abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Site activities during construction, operation and decommissioning resulting in release of pollutants and the subsequent contamination of groundwater, and leading to pollution of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
Lews Castle PWS (groundwater abstraction) A04	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and leading to derogation of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to a decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and leading to derogation and/or pollution of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
	Site activities during construction, operation and decommissioning resulting in release of pollutants and the subsequent contamination of groundwater, and leading to pollution of abstraction	Very low	Low	Negligible (NS)	Distance of abstraction from Development Site, together with anticipated effectiveness of embedded environmental measures, combine to limit magnitude of change to abstraction
Small area of M25a GWDTE associated with the Abhainn Ghrioda CS01	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Low	Low	Negligible (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	One turbine (T12) in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Medium	Low	Minor (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T12) in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T20) in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Medium	Low	Minor (NS)	One turbine (T12) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
M15b GWDTE south and adjacent to A858 CS02	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) just outside catchment and buffer zone extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) just outside catchment and buffer zone extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures and little baseline baseflow support mean limited magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) just outside catchment and buffer zone extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
M15b GWDTE south and adjacent to A858, on north slopes of Cnoc Loch an Leadharain CS03	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	One borrow pit encroaching catchment, with buffer extending to habitat, also central/main substation buffer across part of catchment, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	One borrow pit encroaching catchment, with buffer extending to habitat, also central/main substation buffer across part of catchment, but anticipated effectiveness of embedded environmental measures and little baseline baseflow support limit magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One borrow pit encroaching catchment, with buffer extending to habitat, also central/main substation buffer across part of catchment, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in extreme west, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
M25a GWDTE south west of Loch a' Leadharain CS04	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	T19, track and storage/laydown buffer zones across catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	T19, track and storage/laydown buffer zones across catchment, but anticipated effectiveness of embedded environmental measures and little baseline baseflow support restricts magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	T19, track and storage/laydown buffer zones across catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
M15b GWDTE extending down from catchment divide to Loch a' Leadharain CS05	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment and turbine offer zone extending across whole of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment and turbine buffer zone extending across whole of habitat and catchment, and anticipated effectiveness of embedded environmental measures and little baseline baseflow support restrict magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment and turbine buffer zone extending across whole of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T20) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
M15c GWDTE adjacent to tributary of Abhainn Ghrioda CS06	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	One trackway in catchment, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	Trackway and substation/borrow pit buffer zones across catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	One trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	One trackway in catchment, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Trackway and substation/borrow pit buffer zones across catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	Trackway and substation/borrow pit buffer zones across catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
Strip of M6ci GWDTE on the north east banks of Loch a' Leadharain CS07	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	Trackway and T20/substation/borrow pit buffer zones across catchment, and borrow pit also clips eastern edge of catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Trackway and T20/substation/borrow pit buffer zones across catchment, and borrow pit also clips eastern edge of catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	Trackway and T20/substation/borrow pit buffer zones across catchment, and borrow pit also clips eastern edge of catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one trackway in catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
Patch of M15c GWDTE on slopes of Cnoc Loch a' Leadharain CS08	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of relevant proposed works, with the exception of one trackway, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	High	Low	Moderate (PS)	Trackway and borrow pit extend across part of habitat and catchment, together with entire coverage of borrow pit and substation buffers.
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	One trackway and borrow pit, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of relevant proposed works, with the exception of one trackway, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	High	Low	Moderate (PS)	Track way and borrow pit extend across part of habitat and catchment
	Disruption of ground during construction leading to increased sediment loading for site	High	Low	Moderate (PS)	Trackway and borrow pit extend across part of habitat and catchment.
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Trackway and borrow pit extend across part of habitat and catchment, together with entire coverage of borrow pit and substation buffers, but anticipated effectiveness of embedded environmental measures and little baseline baseflow support limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	High	Low	Moderate (PS)	Trackway and borrow pit extend across part of habitat and catchment, together with entire coverage of borrow pit and substation buffers.

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	One trackway and borrow pit, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	High	Low	Moderate (PS)	Borrow pit extends across habitat and catchment.
Patch of M15c GWDTE on catchment divide at Cnoc Loch a' Leadharain CS09	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of relevant proposed works, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	High	Low	Moderate (PS)	Borrow pit extends across part of habitat, together with entire coverage of borrow pit and substation buffers.
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	Borrow pit, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of relevant proposed works, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	High	Low	Moderate (PS)	Borrow pit extends across part of habitat
	Disruption of ground during construction leading to increased sediment loading for site	High	Low	Moderate (PS)	Borrow pit extends across part of habitat
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Borrow pit extends across part of habitat and catchment, together with entire coverage of borrow pit and substation buffers, but anticipated effectiveness of embedded environmental measures and little baseline baseflow support limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	High	Low	Moderate (PS)	Borrow pit extends across part of habitat and catchment, together with entire coverage of borrow pit and substation buffers

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	Borrow pit, but anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	High	Low	Moderate (PS)	Borrow pit extends across habitat and catchment
Linear strip of M15b GWDTE along southern edge of Bennadrove Landfill CS10	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment and buffer zones extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment and buffer zones extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures and little baseline baseflow support mean limited magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment and buffer zones extending across part of habitat and catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Very Low	Low	Negligible (NS)	Limited extent of proposed works, with the exception of one turbine (T21) and trackway just outside catchment, and anticipated effectiveness of embedded environmental measures combine to limit magnitude of change to GWDTE
Small area of M6ci GWDTE on the banks of the Allt Hulabie, at its southern extent CS11	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	T35, track, borrow pit and storage/laydown buffers extend across habitat, and several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Medium	Low	Minor (NS)	T35, track, borrow pit and storage/laydown buffers extend across habitat, and several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	T35, track, borrow pit and storage/laydown buffers extend across habitat, and several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	Several turbines and trackways within catchment, but anticipated effectiveness of embedded environmental measures limit magnitude of change to GWDTE
A linear area of M6ci GWDTE lying along the banks of the Abhainn Lacasdail along the extreme northern boundary of the Proposed Development CS12	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	One turbine (T32) and trackway in catchment and another (T33) just beyond, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment and another just beyond (T33), but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T32) and trackway in catchment and another just beyond (T33), but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	One turbine (T32) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
A narrow area of M15b GWDTE fringing the south western edge of Loch Garbhaig CS13	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	One turbine (T26) and trackway in catchment and another (T27) just beyond, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment and another just beyond (T33), but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T26) and trackway in catchment and another just beyond (T27), but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	One turbine (T26) and trackway in catchment, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
A patch of M15b GWDTE on the south facing slope of Beinn Hulabaidh CS14	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Medium	Low	Minor (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Disruption of ground during construction leading to increased sediment loading for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Medium	Low	Minor (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDTE

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDE
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Low	Low	Negligible (NS)	One turbine (T24) west of catchment but trackway within it, but anticipated effectiveness of embedded environmental measures limits magnitude of change to GWDE
Lewis Peatlands Ramsar and SPA CS15	Soil compaction and introduction of areas of hardstanding during construction and throughout operation reducing recharge and groundwater levels, and resulting in reduced groundwater support for site	Very low	High	Minor (NS)	A number of turbines (T1, T12, T254, T25, T27, T32 and T33) and associated trackways just beyond designated conservation site, but upgradient location, distance and size of site and anticipated effectiveness of embedded environmental measures limits magnitude of change to the Ramsar and SPA
	Dewatering during construction associated with excavation of the turbine foundations and borrow pits leading to decline in groundwater levels and possibly also induced leakage of contaminants from Bennadrove Landfill, and resulting in reduced and polluted groundwater support for site	Very low	High	Minor (NS)	A number of turbines (T1, T12, T254, T25, T27, T32 and T33) and associated trackways just beyond designated conservation site, but upgradient location, distance and size of site and anticipated effectiveness of embedded environmental measures limits magnitude of change to the Ramsar and SPA
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of groundwater, and leading to polluted groundwater support for site	Very low	High	Minor (NS)	A number of turbines (T1, T12, T254, T25, T27, T32 and T33) and associated trackways just beyond designated conservation site, but upgradient location, distance and size of site and anticipated effectiveness of embedded environmental measures limits magnitude of change to the Ramsar and SPA



Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Excavation works and peat stockpiling/removal leading to physical disturbance of the peat	Very low	High	Minor (NS)	A number of turbines (T1, T12, T254, T25, T27, T32 and T33) and associated trackways just beyond designated conservation site, but upgradient location, distance and size of site and anticipated effectiveness of embedded environmental measures limits magnitude of change to the Ramsar and SPA
Tong Saltings SSSI CS16	Soil compaction and introduction of areas of hardstanding during construction and throughout operation increasing runoff and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI
	Disruption of flow paths and changes to drainage regime during construction and throughout operation can be associated with increases in runoff and less on-site water retention, and resulting in changed surface water support for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI
	Disruption of ground during construction leading to increased sediment loading for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI
	Dewatering and/or drainage during construction disrupting groundwater support (baseflow) to watercourses, and resulting in changed surface water support for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI

Receptor	Effects	Magnitude ¹	Value ²	Significance	
				Level	Rationale
	Discharge to surface water of groundwater intercepted during construction associated with excavation of turbine foundations and borrow pits and increasing flows and sediment loading, and resulting in changed surface water support and increased sediment loading for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI
	Site activities during construction, operation and decommissioning resulting in release of pollutants and subsequent contamination of surface waters, and leading to polluted surface water support for site	Very low	Medium	Negligible (NS)	Distance, intervening dilution and the anticipated effectiveness of the embedded environmental measures combine to limit magnitude of change to the SSSI
Key:		Magnitude	Value	Significance	
		¹ High Medium Low Very Low	² High Medium Low Very Low	S = Significant PS = Probably Significant NS = Not Significant	