

Southern Water Gate 2 - Natural Capital component assessments

BPT and WBS Components

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Element ref	
Element ID	
Element Name	WfLH BPT
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within Zol) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	Crops, carbon sequestration, air quality management				
Freshwater	regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment Water purification services are currently provided by arable, and greenfield habitats. River Wallington flows nearby and the WFD waterbody is currently achieving Moderate status. As a BPT will be constructed, the change in land cover has a potential to decline water purification services.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref	
Element ID	
Element Name	WfLH WBS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction		Area planned for habitat creation	
		(Area within Zol) (ha)	Permanent habitat loss (ha)	(ha)	improvement (ha)
Arable land	Crops, carbon sequestration, air quality management				
Freshwater	flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded	High non-traded
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment Water purification services are currently provided by arable, and greenfield habitats. River Hamble (Upper Hamble) flows nearby and the WFD waterbody is currently achieving Moderate status. As a BPT will be constructed, the change in land cover has a potential to decline water purification services.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref	
Element ID	
Element Name	WfLH WBS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within ZoI) (ha)		Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
		(Area within ZoI) (ha)	Permanent habitat loss (ha)		
Arable land	quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment	Assessment
Qualitative assessment	Water purification services are currently provided by greenfield and grassland habitats. A BPT will be constructed. No change to water purification as there are no waterbodies within close proximity of the BPT.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within ZoI) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

WfLH [redacted] WBS

Element ref	
Element ID	
Element Name	WfLH [redacted] WBS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within ZoI) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	Crops, carbon sequestration, air quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment Water purification services are currently provided by woodland habitats. A WBS will be constructed. No change to water purification as there are no waterbodies within close proximity of the WBS.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within ZoI) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref
Element ID
Element Name
Description
Zone of interest area (ha)

Stocks and BNG

Broad habitat	Ecosystem services
Arable land	Crops, carbon sequestration, air quality management
Freshwater	Water abstraction, recreation, flood regulation
Grassland	Carbon sequestration, air quality management, recreation
Heathland	Livestock, carbon sequestration, recreation
Marine	Fisheries, recreation, water desalination
Shrub	
Urban	No environmental benefits
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)
Arable land	
Grassland	
Heathland	
Shrub	
Urban	
Woodland (coniferous)	
Woodland (deciduous)	

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)
Arable land	
Grassland	
Heathland	
Shrub	
Urban	
Woodland (coniferous)	
Woodland (deciduous)	

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)
Arable land	
Grassland	
Heathland	
Shrub	
Urban	
Woodland (coniferous)	
Woodland (deciduous)	

Water Purification

	Assessment
Qualitative assessment	Water purification services are currently provided by greenfield and grassland habitats. A WBS will be constructed. No change to water purification as there are no waterbodies within close proximity of the WBS

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

W/LH [redacted] WBS

Element ref	
Element ID	
Element Name	W/LH [redacted] WBS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within Zol) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment
Water purification services are currently provided by arable, pasture and grassland habitats. A WBS will be constructed. No change to water purification as there are no waterbodies within close proximity of the WBS.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref	
Element ID	
Element Name	WfLH WBS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within ZoI) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment Water purification services are currently provided by arable, pasture and grassland habitats. A WBS will be constructed. No change to water purification as there are no waterbodies within close proximity of the WBS.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within ZoI) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref	
Element ID	
Element Name	WfLH BPS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within ZoI) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
<p>Qualitative assessment</p> <p>Water purification services are currently provided by arable, and greenfield habitats. River Wallington flows nearby and the WFD waterbody is currently achieving Moderate status. As a WBS will be constructed, the change in land cover has a potential to decline water purification services.</p>

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within ZoI) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Havant thicket HLPS alternate HT-OT3

Element ref	
Element ID	
Element Name	Havant thicket HLPS alternate HT-OT3
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within Zol) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha)	Area planned for habitat improvement (ha)
Arable land	quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	(£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	(£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
<p>Qualitative assessment</p> <p>Water purification services are currently provided by arable, and greenfield habitats. Bidbury Mead Stream has no WFD classification which flows into Hermitage Stream WFD waterbody is currently achieving Moderate status. A pumping station will be constructed. Therefore, the change in land cover has a potential to decline water purification services.</p>

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Havant thicket HPLS

Element ref	
Element ID	
Element Name	Havant thicket HPLS
Description	
Zone of interest area (ha)	

Stocks and BNG

Broad habitat	Ecosystem services	Temporary habitat lost	Permanent habitat loss (ha)	Area planned for	Area planned for
Arable land	Crops, carbon sequestration, air quality management				
Freshwater	Water abstraction, recreation, flood regulation				
Grassland	Carbon sequestration, air quality management, recreation				
Heathland	Livestock, carbon sequestration, recreation				
Marine	Fisheries, recreation, water desalination				
Shrub					
Urban	No environmental benefits				
Woodland (coniferous)	Timber, carbon sequestration, air quality management, recreation				
Woodland (deciduous)	Timber, carbon sequestration, air quality management, recreation				

Carbon sequestration - temporary habitat lost

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - permanent habitat loss

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Carbon sequestration - area planned for habitat creation

Broad habitat	Cumulative area (ha)	Low non-traded carbon (£2019)	carbon (£2019)	carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Urban				
Woodland (coniferous)				
Woodland (deciduous)				
Total				

Water Purification

Assessment
Qualitative assessment Water purification services are currently provided by greenfield and woodland habitats. Park Lane Stream has no WFD classification which flows into Hermitage Stream WFD waterbody is currently achieving Moderate status. A pumping station will be constructed. Therefore, the change in land cover has a potential to decline water purification services.

Recreation

Welfare Value (per year)	Estimated visits (per year)

Agricultural

Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within ZoI) (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Area planned for habitat creation (ha)

Broad habitat type	Value of natural hazard regulation gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	