Southern Water Gate 2 - Natural Capital component assessments

Desalination Option Components

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

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

Carbon sequestration - within Zol

Carbon coquocation within 201			
		Low non-traded carbon Medium non-trade	и підп поп-тааеа
Broad habitat	Cumulative area (ha)	(£2019) carbon (£2019)	carbon (£2019)
Arable land			
Grassland			
Heathland			
Shrub			
Woodland (coniferous)			
Woodland (deciduous)			
	Total		

Carbon sequestration - permanent habitat loss

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

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	

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)

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

Permanent habitat loss (ha)

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

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

Element ref	
Element ID	
Element Name	FAWPS_Sites_Habitats - Parcel 19
Description	
Zone of interest area (ha)	

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

Carbon sequestration - within Zol

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

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				
Woodland (coniferous)				
Woodland (deciduous)				

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	Water purification services are currently provided by arable, pasture, woodland and grassland habitats. Water for the Ashlett Creek desalination plant will be abstracted from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is potential impact to water purification services.

Recreation

Recreation	
Welfare Value (per year)	Estimated visits (per year)
£0.00	0

Agricultural

gricultural	
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)

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

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

FAWPS_Sites_Habitats - Parcel 21

Element ref	
Element ID	
Element Name	FAWPS_Sites_Habitats - Parcel 21
Description	
Zone of interest area (ha)	

Stocks and BNG

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

Carbon sequestration - within Zol

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)				

Carbon sequestration - permanent habitat loss

Cumulative area (ha)	Low non-traded carbon (£2019)		High non-traded carbon (£2019)
	Cumulative area (ha)	Cumulative area (ha)	Climiliative area (na)

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	Water purification services are currently provided by arable, pasture, woodland and grassland habitats. Water for the Ashlett Creek desalination plant will be abstracted from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is potential impact to water purification services.

Recreation

Welfare Value (per year)	Estimated visits (per year)
£0.00	0

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)

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

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

FAWPS_Sites_Habitats - Parcel 23

Element ref	
Element ID	
Element Name	FAWPS_Sites_Habitats - Parcel 23
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)
	Crops, carbon sequestration, air quality			
Arable land	management			
	Water abstraction, recreation, flood			
Freshwater	regulation			
	Carbon sequestration, air quality			
Grassland	management, recreation			
	Livestock, carbon sequestration,			
Heathland	recreation			
Marine	Fisheries, recreation, water desalination			
Shrub				
Urban	No environmental benefits			
	Timber, carbon sequestration, air quality			
Woodland (coniferous)	management, recreation			
	Timber, carbon sequestration, air quality			
Woodland (deciduous)	management, recreation			

Carbon sequestration - within Zol

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

Carbon sequestration - permanent habitat loss

Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
	Cumulative area (ha)	Cumulative area (ha)	Cumulative area (ha) Low non-traded carbon Medium non-traded (£2019) carbon (£2019)

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

Water I utilication			
	Assessment		
Qualitative assessment	Water purification services are currently provided by arable, pasture, woodland and grassland habitats. Water for the Ashlett Creek desalination plant will be abstracted from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is potential impact to water purification services.		

Recreation

reciculion				
Welfare Value (per year)	Estimated visits (per year)			
£0.00	0			

Agricultural

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

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

ring construction (Area within Zol) (ha)

remporary habitat lost during construction (Area within 201) (na)	
	Value of natural hazard regulation
Broad habitat type	lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

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

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

Element ref	
Element ID	
Element Name	to_Abstraction_and_Discharge_Route_2_No_Sites_Habitat
Description	
Zone of interest area (ha)	

Towards he had been			
Broad habitat	Temporary habitat lost Ecosystem services during construction Permanent habitat loss (ha) (Area within Zol) (ha)		
Arable land	Crops, carbon sequestration, air quality		
Alable latiu	management		
Freshwater	Water abstraction, recreation, flood regulation		
	Carbon sequestration, air quality management,		
Grassland	recreation		
lla alla ard			
Heathland	Livestock, carbon sequestration, recreation		
Marine	Fisheries, recreation, water desalination		
Shrub			
Urban	No environmental benefits		
Woodland (coniferous)	number, carbon sequestration, air quality management, recreation		
	Timber, carbon sequestration, air quality		
Woodland (deciduous)	management, recreation		

Carbon sequestration - within Zol

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

Carbon sequestration - permanent habitat loss

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

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is a potential impact to water purification services.

Recreation

ar)	Welfare Value (per year) Estimated visits (per year)
	Tronaid value (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)

remporary 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)

1 cirianent nabitat 1055 (na)	
	Value of natural hazard regulation lost
Broad habitat type	(£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Value of natural hazard regulation
gained (£2019)

Element ref	
Element ID	
Element Name	to_Abstraction_and_Discharge_Route_3_No_Sites_Habitat
Description	
Zone of interest area (ha)	

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

Carbon sequestration - within Zol

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)				

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				
Woodland (coniferous)				
Woodland (deciduous)				

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

Water i unication					
	Assessment				
Qualitative assessment	desalinisation plant will abstract water from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is a potential impact to water purification services.				

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

Agricultural

9	
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	

Value of natural hazard
regulation gained (£2019)

to_Abstraction_and_Discharge_Route_4_No_Sites_Habitat		
·	Element ref	
	Element ID	
	Element Name to_Abstraction_and_Discharge_Route_4_No_Sites_Habitat	
	Description	
	Zone of interest area (ha)	

Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within Zol) (ha)	Permanent habitat loss (ha)	Area planned for creation (ha
	Crops, carbon sequestration, air quality			
Arable land	management			
	Water abstraction, recreation, flood			
Freshwater	regulation			
	Carbon sequestration, air quality			
Grassland	management, recreation			
	Livestock, carbon sequestration,			
Heathland	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 - within Zol

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)			

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				
Woodland (coniferous)				
Woodland (deciduous)				

Carbon sequestration - area planned for habitat creation

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

Water Purification

ı		Assessment	
	Qualitative assessment	desalinisation plant will abstract water from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is a potential impact to 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)			
i					

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within Zol) (ha)	
	Value of natural hazard regulation
Broad habitat type	lost (£2019)
Woodland	
Semi-natural grasslands	
Frachuston	

Permanent habitat loss (ha)

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

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

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

0.000.0 4.14 2.10				
Broad habitat	Ecosystem services	Temporary habitat lost during construction (Area within Zol) (ha)	Permanent habitat loss (ha)	Area planned for habitat creation (ha
	Crops, carbon sequestration, air quality			
Arable land	management			
F	W			
Freshwater	Water abstraction, recreation, flood regulation Carbon sequestration, air quality			
Grassland	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			
, ,	Timber, carbon sequestration, air quality			
Woodland (deciduous)	management, recreation			

Carbon sequestration - within Zol

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)				

Carbon sequestration - permanent habitat loss

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

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				
Noodland (coniferous)				
Noodland (deciduous)				

Water Purification

	Assessment
Qualitative assessment	Water purification services are currently provided by grassland, and woodland habitats. A pumping station will be constructed. The Solent is nearby and has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is a potential impact to water purification services.

Recreation

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

Agricultural

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

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation Temporary habitat lost during construction (Area within Zol) (ha)

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

Permanent habitat loss (ha)

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

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



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

Carbon sequestration - within Zol

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

Carbon sequestration - permanent habitat loss

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

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to WTW which will reduce the abstraction in the River Test. Water purification services are currently provided by arable, pasture, woodland and grassland habitats. River Test (Lower) WFD waterbody is currently achieving Moderate status. Therefore, the increase in flow has a potential to improve water purification services as dilution of pollutants downstream will increase.

Recreation

Walfara Value (nonvenu)	
Welfare Value (per year) Estimated visits (per y	rear)

Agricultural

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

Air Quality

Area not within Air Quality Management Area

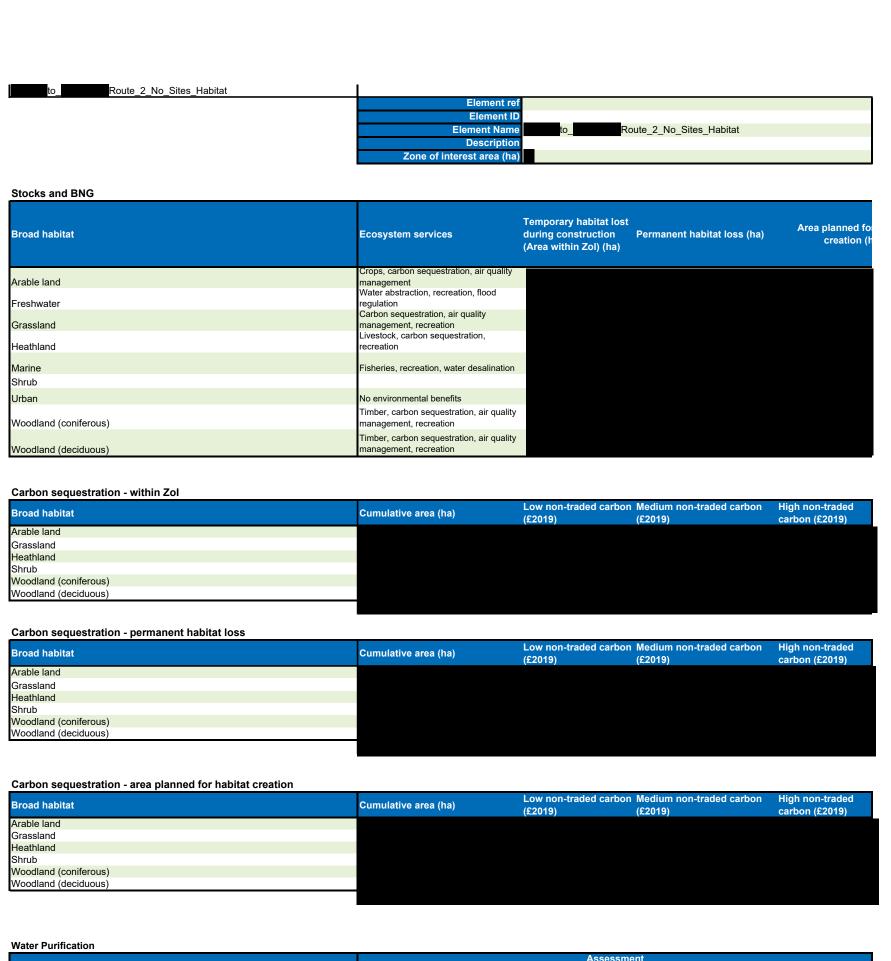
Natural hazard regulation
Temporary habitat lost during construction (Area within Zol) (ha)

remporary habitatiost dailing construction (7 tica Within 201) (ne	/
	Value of natural hazard regulation lost
Broad habitat type	(£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

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

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



	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to WTW which will reduce the abstraction in the River Test. Water purification services are currently provided by arable, pasture, woodland and grassland habitats. River Test (Lower) WFD waterbody is currently achieving Moderate status. Therefore, the increase in flow has a potential to improve water purification services as dilution of pollutants downstream will increase.

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)

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

Permanent habitat loss (ha)

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

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

Element ref	
Element ID	
Element Name	to_ Route_3_No_Sites_Habitat
Description	
Zone of interest area (ha)	

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

Carbon sequestration - within Zol

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)				

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				
Noodland (coniferous)				
Noodland (deciduous)				

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to WTW which will reduce the abstraction in the River Test. Water purification services are currently provided by arable, pasture, woodland and grassland habitats. River Test (Lower) WFD waterbody is currently achieving Moderate status. Therefore, the increase in flow has a potential to improve water purification services as dilution of pollutants downstream will increase.

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)

	Value of natural hazard regulation
Broad habitat type	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	

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

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

Carbon sequestration - within Zol

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)				

Carbon sequestration - permanent habitat loss

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

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to WTW which will reduce the abstraction in the River Test. Water purification services are currently provided by arable, pasture, woodland and grassland habitats. River Test (Lower) WFD waterbody is currently achieving Moderate status. Therefore, the increase in flow has a potential to improve water purification services as dilution of pollutants downstream will increase.

10010411011		
Welfa	re Value (per year)	Estimated visits (per year)

Agricultural

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

Air Quality

Area not within Air Quality Management Area

Natural hazard regulation

construction (Area within Zol) (ha)

remporary 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)

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

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

to_ Route_SIA_No_Sites_Habitat	
	Element ref
	Element ID
	Element Name to_ Route_SIA_No_Sites_Habitat
	Description
	Zone of interest area (ha)
Stocks and BNG	

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

Carbon sequestration - within Zol

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)				
•				

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				
Woodland (coniferous)				
Woodland (deciduous)				

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

	Assessment
Qualitative assessment	desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to WTW which will reduce the abstraction in the River Test. Water purification services are currently provided by arable, pasture, woodland and grassland habitats. River Test (Lower) WFD waterbody is currently achieving Moderate status. Therefore, the increase in flow has a potential to improve water purification services as dilution of pollutants downstream will increase.

Recreation

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

Agricultural

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

Air QualityArea not within Air Quality Management Area

Natural hazard regulation

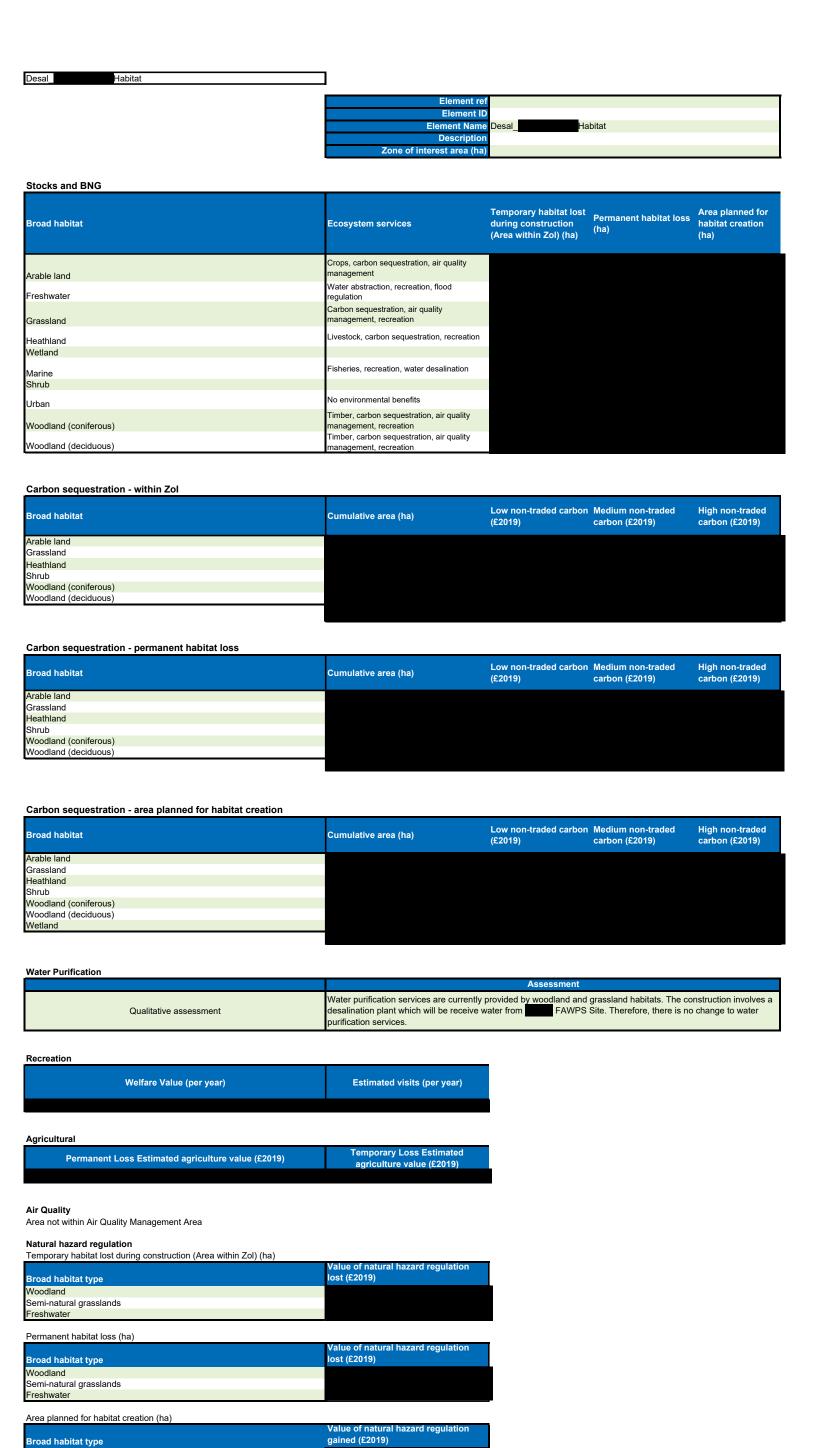
ng construction (Area within Zol) (ha)

remporary habitat lost during construction (Area within 201) (ha)	
Broad habitat type	Value of natural hazard regulation lost (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Permanent habitat loss (ha)

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

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



Woodland

Freshwater

Semi-natural grasslands

Desal_D55_Habitat_Including_PS

Element ref	
Element ID	
Element Name	Desal_D55_Habitat_Including_PS
Description	
Zone of interest area (ha)	

Stocks and BNG

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

Carbon sequestration - within Zol

Broad habitat	Cumulative area (ha)	Low non-traded carbon Med (£2019) car	dium non-traded bon (£2019)	High non-traded carbon (£2019)
Arable land				
Grassland				
Heathland				
Shrub				
Woodland (coniferous)				
Woodland (deciduous)				

Carbon sequestration - permanent habitat loss

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

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

Trator r armound		
		Assessment
	Qualitative assessment	The D55 desalinisation plant will abstract water from The Solent. The Solent is a European Marine Site with Special Protection Area (SPA), Special Area of Conservation (SAC) and Ramsar designations. Therefore, there is a potential impact to water purification services.

		1
Recreation		
We	lfare Value (per year)	Estimated visits (per year)

Agricultural

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

Air QualityArea not within Air Quality Management Area

Natural hazard regulation
Temporary habitat lost during construction (Area within Zol) (ha)

remperary habitatiost during construction (7 trea within 201) (na)	
	Value of natural hazard regulation
Broad habitat type	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	_

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

Element ref				
Element ID	_			
Element Name	Desal_D55_to_	Route 1		
Description				
Zone of interest area (ha)				

Stocks and BNG

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

Carbon sequestration - within Zol

Cumulative area (ha)	Low non-traded carbon (£2019)	Medium non-traded carbon (£2019)	High non-traded carbon (£2019)
	Cumulative area (ha)	Cumulative area (ha)	Cumulative area (ha)

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				
Woodland (coniferous)				
Woodland (deciduous)				

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				
Woodland (coniferous)				
Woodland (deciduous)				

Water Purification

	Assessment
Qualitative assessment	The D55 desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to a receiving tank at WTW. River Itchen flows nearby and the WFD waterbody is achieving a Moderate status. No change to water purification to waterbodies will occur as the water will be transferred via a pipeline to WTW.

Recreation

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

Agricultural

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

Air QualityArea not within Air Quality Management Area

Natural hazard regulation

Temporary habitat lost during construction (Area within	n Zol) (ha)
	Value of natural hazard regulation
Broad habitat type	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	

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

Element ref	
Element ID	
Element Name	Desal_D55_toRoute 2
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)
Analala Ian d	Crops, carbon sequestration, air quality			
Arable land	management Water abstraction, recreation, flood			
Freshwater	regulation			
Trestiwater	Carbon sequestration, air quality			
Grassland	management, recreation			
Heathland	Livestock, carbon sequestration, recreation			
Marine	Fisheries, recreation, water desalination			
Shrub				
Urban	No environmental benefits			
	Timber, carbon sequestration, air quality			
Woodland (coniferous)	management, recreation			
,	Timber, carbon sequestration, air quality			
Woodland (deciduous)	management, recreation			

Carbon sequestration - within Zol

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

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				
Woodland (coniferous)				
Woodland (deciduous)				

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	The D55 desalinisation plant will abstract water from The Solent. The desalinised water will be transferred to a receiving tank at WTW. River Itchen flows nearby and the WFD waterbody is achieving a Moderate status. No change to water purification to waterbodies will occur as the water will be transferred via a pipeline to WTW.

Recreation

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

Permanent Loss Estimated agriculture value (£2019) Temporary Loss Estimated	Agricultural	
agriculture value (22013)	Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)

Air Quality

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)

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

gained (£2019)

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

Stocks and BNG

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

Carbon sequestration - within Zol

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

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				
Woodland (coniferous)				
Woodland (deciduous)				

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
Qualitative assessment	Water purification services are currently provided by urban and grassland habitats. Water will be abstracted from the marina from The Solent. The Solent has a Special Protection Area (SPA) and Special Area of Conservation (SAC) designation. Therefore, there is a potential impact to water purification services.

Recreation

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

Agricultural

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

Air Quality

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)

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

Broad habitat type	gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	

Element ref	
Element ID	
Element Name	Intake
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)
	Crops, carbon sequestration, air quality			
Arable land	management			
	Water abstraction, recreation, flood			
Freshwater	regulation			
	Carbon sequestration, air quality			
Grassland	management, recreation			
Uaathland	Livertook earbon acquestration represtion			
Heathland	Livestock, carbon sequestration, recreation			
Marine	Fisheries, recreation, water desalination			
Shrub				
Urban	No environmental benefits			
	Timber, carbon sequestration, air quality			
Woodland (coniferous)	management, recreation			
	Timber, carbon sequestration, air quality			
Woodland (deciduous)	management, recreation			

Carbon sequestration - within Zol

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

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				
Woodland (coniferous)				
Woodland (deciduous)				
<u>'</u>				

Carbon sequestration - area planned for habitat creation

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

Water Purification

	Assessment
()ualitativa accecement	Water purification services are currently provided by urban and grassland habitats. Water will be transferred into the receiving tanks, therefore there will a negligible impact on water purification services.

Recreation

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

Agricultural	
Permanent Loss Estimated agriculture value (£2019)	Temporary Loss Estimated agriculture value (£2019)
	ag.: 0 a.: a. c va.: a. c

Air Quality

Natural hazard regulation
Temporary habitat lost during construction (Area within Zol) (ha)

1 7		
	Va	alue of natural hazard regulation
Broad habitat type	lo	st (£2019)
Woodland		
Semi-natural grasslands		
Freshwater		

Permanent habitat loss (ha)

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

Broad habitat type	gained (£2019)
Woodland	
Semi-natural grasslands	
Freshwater	