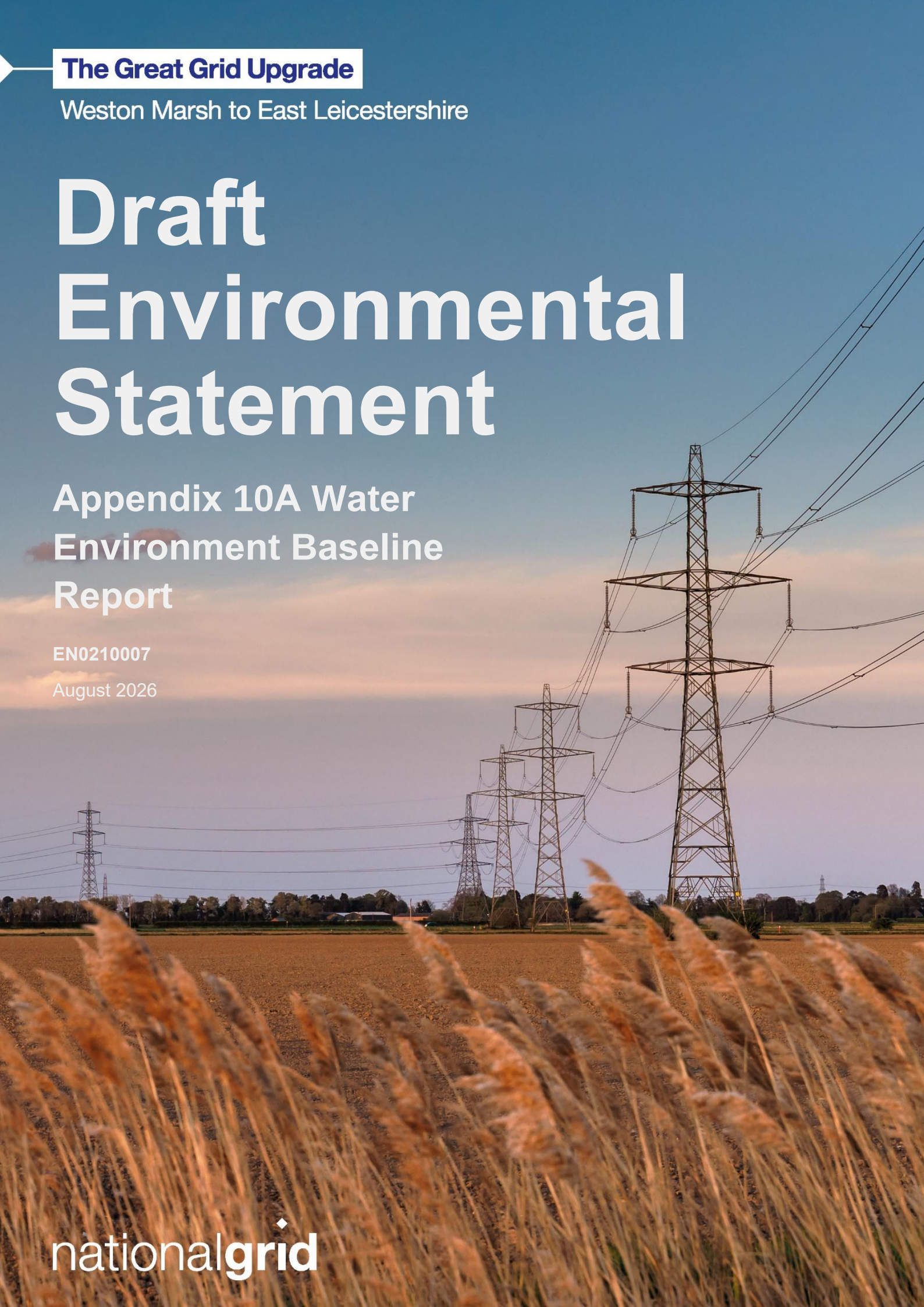




The Great Grid Upgrade

Weston Marsh to East Leicestershire

Draft Environmental Statement

Appendix 10A Water Environment Baseline Report

EN0210007

August 2026

nationalgrid

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10A. Water Environment Baseline Report

10A. Water Environment Baseline Report

10A.1 Introduction

- 10A.1.1 This technical appendix provides baseline information on the water environment to support **Chapter 10 Water Environment** of the non-statutory Draft Environmental Statement (DES) (referred to in this document as “DES” and non-statutory DES”). The water environment includes all surface water receptors that may be impacted by the Project, including surface watercourses, canals, estuaries/coastal water bodies, lakes and reservoirs, with attributes considered including water quality, water resources, hydromorphology, relevant ecological potential, as well as where they also support services including receipt and dilution of wastewater discharges, navigation, recreation and amenity.
- 10A.1.2 Groundwater and any issues associated with contaminated land are being considered in **Chapter 11 Geology and Hydrogeology** and are not referred to in this appendix. Similarly, ponds are not considered here as they are a specific habitat assessed in **Chapter 8 Ecology and Biodiversity**. Finally, although the water environment also includes flood risk and drainage, baseline information has already been described in **Appendix 10B Preliminary Flood Risk Assessment**, and thus, is not repeated here.
- 10A.1.3 Please refer to the following figures throughout this baseline appendix:
- **Figure 10.1 Surface water receptors and their attributes.**
 - **Figure 10.2 Fluvial flood risk.**
 - **Figure 10.3 Surface water flood risk.**
 - **Figure 10.4 WER surface water body catchments.**

Study Area

- 10A.1.4 The core Study Area for the water environment impact assessment, Water Environment Regulations (WER) Assessment, and Flood Risk Assessment (FRA) includes all land within the draft Order Limits, and in addition, a buffer of 500 m from the draft Order Limits, as shown in **Figure 10.1 Surface water receptors and their attributes**.
- 10A.1.5 The buffer has been used to identify water features that may be impacted by the Project. It is considered appropriate based on technical knowledge of similar projects and has been set following consideration of the distance over which likely significant effects can reasonably be expected to occur. However, as pollution risks can propagate downstream, it is important to also consider any additional attributes of a watercourse downstream of the Project, and sometimes beyond the Study Area, to ensure that the most appropriate and precautionary importance value has been awarded to it for the assessment of potential water quality impacts. Generally, a distance of a few kilometres is used for this purpose, and this will be defined further as part of the ES. Additionally, a method of tracing downstream watercourses beyond the 500 m buffer to a defined distance where impact pathways exist, such as outfalls

or diversions, will be implemented. This method will also be used in the FRA, in order to include reaches of the watercourse upstream/downstream of the Project that may impact or be impacted. This will be defined during later stages of assessment and described within the ES, it will also be confirmed with the Environment Agency and Lead Local Flood Authority (LLFA).

Data Collection

10A.1.6 The known current baseline environment described in this section has been informed by the data sources as listed in **Table 10A.1**.

Table 10A.1 Water environment – sources of information

Data Topic	Sources of Information
Climate	Met Office UK Climate averages at Wittering (Ref 10A.1).
Topography	Ordnance Survey Mapping (Ref 10A.1).
Geology	British Geological Survey (BGS) GeoIndex Viewer (Ref 10A.3).
Soils and land use	- Department for Environment, Food and Rural Affairs (DEFRA) 'Magic Map' online GIS portal (Ref 10A.4). - National Soil Research Institute Soilscales map viewer (Ref 10A.5).
Hydrology	- DEFRA Hydrology Data Explorer (Ref 10A.6). - Environment Agency Statutory Main River Map for England (Ref 10A.7). - Flood Estimation Handbook Web Service (Ref 10A.8). - National River Flow Archive (NRFA) (Ref 10A.9).
Flood risk	- Environment Agency Flood Map for Planning (Ref 10A.10). - Environment Agency Risk of Flooding from Surface Water (RoFSW) (Ref 10A.11). - National Flood Risk Assessment (NAFRA) Dataset (Ref 10A.12). - Environment Agency Risk of Flooding from Reservoirs (Ref 10A.13). - Environment Agency Flood Defence Asset database (Ref 10A.14). In addition to the above data requests will be made to the Environment Agency, LLFAs and Internal Drainage Boards (IDBs) to provide information on the following to support the water environment assessment: - Baseline flood risk data, including available modelled flood data for main rivers, and local flood risk data from commissioned studies. - Data on consented discharges to surface waters and licensed and exempted (private) abstractions from surface waters. - Specific watercourse characteristics (e.g. flow, control measures, maintenance regimes, Environment Agency flood defence assets) will be requested from IDBs for their districts. - Information on local flood risk from LLFAs (e.g. specific watercourse characteristics, local flood history, Section 19 flood investigation

Data Topic	Sources of Information
	reports, flow, control measures, maintenance regimes, Environment Agency flood defence assets).
Water quality and WER status	• Catchment Data Explorer database (Ref 10A.15) River Basin Management Plan (RBMP) Cycle 3 WER information. • Environment Agency Water Quality Archive (Ref 10A.16).
Water resources	A data request was made to the Environment Agency and the following data was received in November 2025: • All licenced water abstractions within the Study Area. • Data request made to the Environment Agency for all consented and permanent discharges to Controlled Waters covered by an active Water Activity Permit within the Study Area. • Data request made to the Environment Agency for all category 3 (minor) or worse water pollution incidents within the Study Area as recorded on the National Incident Recording Database within the past 5 years. • A data request has also been made to the Environmental Health Departments of all local Councils for information on any known surface water PWS within the Study Area.

10A.2 Existing Baseline

- 10A.2.17 For the purpose of this assessment, the Project has been divided into five sections, defined by the geographical alignment of the draft Order Limits and the administrative boundaries of the host authorities. In accordance with this, the baseline has been split into the same five sections. These are shown on **Figure 10.1 Surface water receptors and their attributes**.

Section 1 – South Holland

Climate

- 10A.2.18 The most recent available data for average annual rainfall estimates was taken from the Met Office website for the period 1991 to 2020 (Ref 10A.1). This suggests that the average annual total rainfall in the locality of the Project is around 614 mm, based on the Wittering station record (National Grid Reference (NGR): TF 04400 02500) located approximately 20.3 km from the Scoping Boundary, south east of Melton Mowbray. This is lower than the Midlands regional average (1991-2020) of approximately 810 mm (Ref 10A.1). The Wittering station is located centrally for the L-shaped Scoping Boundary and as such is the most appropriate for this report.
- 10A.2.19 The distribution of rainfall throughout the year varied for the Study Area based on the Wittering 1991-2020 record. The highest monthly average precipitation is likely to occur during August (c. 60 mm) and October (c. 63 mm). The driest months are expected to be on average March (c. 39 mm) and February (c. 39 mm).

Topography and Land Use

- 10A.2.20 Ordnance Survey Mapping (Ref 10A.1) indicates that the topography in Section 1, near Spalding is very flat and low lying being below 50 m above Ordnance Datum (AOD). This is reflected in the dense drain network in this low-lying area and a history of land drainage managed by IDBs including the South Holland IDB, Welland and Deepings IDB and the Black Sluice IDB.

Geology

- 10A.2.21 **Chapter 11 Geology and Hydrogeology** provides full details of the geology and hydrogeology baseline for the Study Area and is supported by **Figure 11.1 Location Plan and Study Areas, Figure 11.2 Superficial Geology, Figure 11.3 Bedrock Geology, Figure 11.4 Groundwater Features and Figure 11.5 Groundwater Abstractions and Discharges**. The following is a brief overview to provide context for the water environment baseline.
- 10A.2.22 Section 1 consists predominantly of the Kellaways Formations with small pockets of the Great Oolite Group. Both of which are made up of sandstone with additions of mudstone, siltstone and limestone (Ref 10A.3).
- 10A.2.23 The majority of Section 1 is underlain by unproductive strata, although there are small areas of Secondary A aquifers towards Bourne in the west of the section (Ref 10A.4).
- 10A.2.24 Within the Study Area of all five Project Sections there are Principal, Secondary A, Secondary B and Secondary (Undifferentiated) and Unproductive aquifers. Therefore, definitions of each type of aquifer are provided below:
- **Principal aquifers:** aquifers provide significant quantities of drinking water, and water for business needs. They may also support rivers, lakes and wetlands.
 - **Secondary A Aquifers:** aquifers comprise permeable layers that can support local water supplies and may form an important source of base flow to rivers.
 - **Secondary B Aquifers:** are mainly lower permeability layers that may store and yield limited amounts of groundwater through characteristics like thin cracks (called fissures) and openings or eroded layers.
 - **Secondary Undifferentiated Aquifers:** are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value.
 - **Unproductive:** negligible significance for water supply or baseflow to rivers, lakes and wetlands. They consist of bedrock or superficial deposits with low permeability that naturally offer protection to any aquifers that may be present beneath.

Surface Water Features

- 10A.2.25 Section 1 is located within the Anglian River Basin District (RBD) (Ref 10A.18) and within the Management Catchments of Welland, and Witham, with a very small area in the Anglian Transitional and Coastal (TraC) Management Catchment.
- 10A.2.26 There are a large number of watercourses within the whole of the Study Area, but particularly in Section 1 due to the dense drainage network reflecting the low lying topography and history of land drainage. All watercourses in the wider Study Area have been identified and labelled according to a desk based study. All unnamed tributaries of named watercourses have been identified as discrete receptors,

as their water quality or hydromorphological importance may be different to the main stem watercourse for the WER catchment. The full watercourse list is provided in **Annex 1** and **Annex 2**.

- 10A.2.27 **Table 10A.2** lists and summarises pertinent information on the WER surface water features (Ref 10A.15) as shown in **Figure 10.1 Surface water receptors and their attributes**, **Figure 10.2 Fluvial flood risk**, **Figure 10.3 Surface water flood risk**, and **Figure 10.4 WER surface water body catchments**. All water bodies summarised either flow directly through the Study Area or part of their catchment lies in the Study Area.
- 10A.2.28 In addition to WER status, whether a watercourse is designated as a Main River or as an Ordinary Watercourse is also included. Riparian ownership applies to both Main Rivers and ordinary watercourses. Designation of a watercourse as a Main River does not imply Environment Agency ownership or responsibility for routine maintenance, which may remain with the riparian owner. The Environment Agency's role in relation to Main Rivers is primarily regulatory. (Ref 10A.20). All other watercourses are considered to be Ordinary Watercourses where the LLFA and IDBs carry out flood risk management work. This ownership distinction has relevance for whom is responsible for granting certain secondary consents as may be required when there are works close to, in, over or under watercourses. Requirements for such consents will depend on the designation of the watercourse, and the nature and location of the works proposed.

Table 10A.2 Surface water features in Section 1 (Ref 10A.15)

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
Section 1				
Welland Lower	Moulton River	GB205031050755	Passes through Study Area flowing east, approximately 820 m southeast of nearest tower.	Ordinary
	Multiple drains and ditches in - Moulton River Catchment	-	Within Study Area, three drains within 100 m of towers	Ordinary
	Vernatt's Drain	GB205031050705	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Ordinary
The Wash TRaC	Welland (estuary)	GB530503100400	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Main
Glens	Blue Gowt Drain	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Ordinary
	Old Sea Drain	-	Travels parallel to the proposed overhead line for approximately 1.8 km also laying within 100 m of multiple towers.	Ordinary
	River Glen	GB105031050720	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Main

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Multiple drains and ditches in the Glens Catchment	-	Within Study Area, multiple crossed by proposed overhead line and within 100 m of towers	Ordinary
Glens/ South Forty Foot Drain	New Drain	-	Proposed overhead line crosses water feature, within 100 m of towers, lies parallel for approximately 1 km	Ordinary
South Forty Foot Drain	Multiple drains and ditches in the South Forty Foot Drain Catchment	-	Within Study Area, multiple crossed by proposed overhead line and within 100 m of towers	Ordinary

- 10A.2.30 There are no flow gauging stations within Section 1, nor are there any flow gauges located in the vicinity either upstream or downstream of watercourses within Section 1.
- 10A.2.31 The majority of watercourses within Section 1 are drains and ditches which typically have very low flow, the flow of other watercourses in Section 1 have been summarised in **Table 10A.3** (Ref 10A.9). Both flow gauges are over 20 km upstream of the Study Area meaning the actual flow is likely to be more powerful. Especially, the River Welland, which within the Study Area is approximately 40 m wide and is less than 15 km from its outfall into The Wash, indicating a watercourse of high flow.

Table 10A.3 Summary of river flows in Section 1 (Ref 10A.9)

Gauge Ref, Name and NGR	Watercourse	Catchment Area (km ²)	Mean Flow (m ³ /s)	Q10* (m ³ /s)	Q95^ (m ³ /s)	BFI+	Record Period
31002, Glen at Kates Br & King St Br, TF106148	River Glen	341.9	1.164	2.898	0.04	0.59	1960-2024
31004, Welland at Tallington Total, TF095077	River Welland	717.4	4.096	9.32	0.897	0.55	1967-2024

*Q10: the flow that is equalled or exceeded 10% of the time – an index of high flow.

^Q95: the flow that is equalled or exceeded 95% of the time – an index of low flow.

+BFI: the BFI is a measure of the proportion of the river runoff that is derived from stored sources; the more permeable the rock, superficial deposits and soils in a catchment, the higher the baseflow and the more sustained the river’s flow during periods of dry weather. Thus, the BFI is an effective means of indexing catchment geology.

- 10A.2.32 Based on the summary of the flow gauging stations in **Table 10A.3**, noting that these are a distance upstream of the Study Area, the majority of the catchments are considered to have a moderate BFI, meaning that baseflow is moderately important to sustaining flow indicating a mixed geology of more and less permeable bedrock, superficial deposits and soils. These watercourses have a balanced dependence on surface water runoff and baseflow and are likely to be affected by periods of dry weather, however a level of flow would be maintained.

Water Environment Regulation Classification

- 10A.2.33 Within the Humber and Anglian RBDs the Section 1 passes through several management catchments. Water bodies within these catchments are artificial or heavily modified and are only at Moderate Ecological Status. A full summary of WER classifications for relevant water bodies in Section 1 is provided in **Table 10A.4** (Ref 10A.15).

Table 10A.4 WER summary for surface water bodies in Section 1 (Ref 10A.15)

WER Parameter	Water Body Summary			
Water Body ID	GB205031050755	GB205031050705	GB530503100400	GB105031050720
Water Body Name	Moulton River	Vernatt's Drain	Welland (estuary)	Glen
Water Body Type	River	River	Transitional	River
Water Body Area (km ²)	24.3	160.7	1.4	57.0
Water Body Length (km)	5.6	34.6	N/A	26.9
Hydromorphological designation	Artificial	Artificial	Heavily modified	Artificial
Overall Ecological Status/potential	Moderate	Moderate	Moderate	Moderate
Status Objective	Good by 2027	Good by 2015	Good by 2015	Good by 2015
Biological Quality Elements	Not monitored Cycle 3 (Bad Cycle 2)	Moderate	N/A	Good
Physico-chemical Quality Elements	Moderate	Moderate	Moderate	Good
Hydromorphological Quality Elements	Not high	Not high	Not high	Not monitored Cycle 3 (Not high Cycle 2)

10A.2.34 The reasons for not achieving good ecological status are shared by many of the water bodies and include the risk of pollution from rural areas and from wastewater discharges. All water bodies share a chemical status of 'fail' due to exceedance of priority hazardous substances, in particular mercury and its compounds, as well as polybrominated diphenyl ethers (PBDE). However, these are chemical substances that are unlikely to be introduced by any phases of the Project.

Hydromorphology

10A.2.35 The WER water bodies in Section 1 are designated as artificial or as heavily modified water bodies. The majority of water features are artificially straight channels, likely modified for agricultural drainage purposes and have relatively low hydromorphological diversity. Walkover surveys have been undertaken to inform subsequent stages of the assessment and the ES and will allow a more detailed classification of the physical form and function of watercourses that may be impacted by the Project. A summary of the watercourses visited in the Study Area is provided in **Appendix 10D Surface Water Environment Walkover Summary**.

Water Resources, Abstractions and Permitted Discharges

Protected Areas

- 10A.2.36 There are no Drinking Water Protected Areas (DrWPAs) or Drinking Water Safeguard Zones in Section 1 (Ref 10A.4).
- 10A.2.37 Nearly the whole of Section 1 lies within a Nitrate Vulnerable Zone (NVZ). NVZs are areas designated as being at risk from agricultural nitrate pollution. Due to the nature of this Project there is no risk to the status of NVZ and they were scoped out at the scoping stage and will not be considered in this DES.

Pollution Incidents

- 10A.2.38 The Environment Agency's publicly accessible data from the Government Data portal on pollution incidents and a data set received from the Environment Agency from a freedom of information request for pollution incidents for the period 2002-2025 have been interrogated (Ref 10A.22). Neither source highlighted any pollution incidents within Section 1 during this time period.

Surface Water Abstractions

- 10A.2.39 Within Section 1 there are two Abstraction Licensing Strategies including the following:
- The Welland Catchment Abstraction Licensing Strategy (Ref 10A.24) shows the water resource available at least 30% of the time; and
 - The Witham Abstraction Licensing Strategy (Ref 10A.25) shows the water resource available at least 30% of the time.
- 10A.2.40 There are 14 licenced abstraction points located within Section 1, on the basis of data provided by the Environment Agency. These are listed in **Table 10A.5** and shown on **Figure 10.1 Surface water receptors and their attributes**. All abstractions are related to agriculture with 11 used for spray irrigation, either directly or for storage. The other three abstractions are used for trickle irrigation or general farming practices. Eight of the fourteen abstractions are located within the draft Order Limits of the Project, with the others being located in the wider Study Area.

Table 10A.5 Surface water abstraction licenses in the Study Area (data obtained from Environment Agency data request)

License Number	Figure Code	NGR	Source	Relevance
5/31/14/*S/0169	A1	TF2420227574	Old Sea Drain	Within Draft Order Limits
	A2	TF2417427578	River Glen	Within Draft Order Limits
	A3	TF2420227574	Old Sea Drain	Within Draft Order Limits
	A4	TF2417427578	River Glen	Within Draft Order Limits
5/31/14/*S/0247	A5	TF2701027090	Vernatt's Drain	Within Draft Order Limits
	A6	TF2701027090	Vernatt's Drain	Within Draft Order Limits

License Number	Figure Code	NGR	Source	Relevance
	A7	TF2701027090	Vernatt's Drain	Within Draft Order Limits
AN/030/0012/018	A11	TF1814028220	Higher Lode Drain	Within 500 m Study Area
AN/030/0012/025	A12	TF1994727405	New Drain	Within 500 m Study Area
	A13	TF2018927348	New Drain	Within 500 m Study Area
	A14	TF2109027650	New Drain	Within Draft Order Limits
AN/030/0012/045	A29	TF1844928184	Higher Load Drain	Within 500 m Study Area
	A30	TF1935027526	New Drain	Within 500 m Study Area
AN/030/0012/054	A31	TF2088227932	Unnamed Drain	Within 500 m Study Area

Private Water Supplies (Surface)

- 10A.2.41 Following review of a data request to South Holland Council, there are no private water supplies (PWS) within the Study Area of Section 1.

Water Activity Permits

- 10A.2.42 Information on consented discharges was obtained from the Environment Agency through a freedom of information request. There are no consented discharges within the draft Order Limits. However, there are six within the wider Study Area of Section 1 and these are summarised in **Table 10A.6**. Their locations are also shown on **Figure 10.1 Surface Water Features and their Attributes**.

Table 10A.6 Consented discharges in the Study Area (data obtained from Environment Agency data request, October 2025)

Figure Code	Permit Number	Long Name	National Grid Reference	Start Date	Discharge Type	Receiving Water
D8	AW5NF560	Woods Lane	TF2520027840	06/03/2019	WwTW/Sewage Treatment Works (water company)	S1D63
D9	PRNNF09901	Site 2253 Lowgate La	TF2409028090	19/12/1995	WwTW (not water co) (not STP at a private premises)	S1D75
D11	PR5LF5445	Drift Lodge	TF2461027490	14/12/2011	Domestic property (single) (incl. farm house)	Old Sea Drain
D14	PRNNF12463	Herdgate Lane	TF2514627188	15/08/2000	Farms (not house)/Crop and Animal Rearing/Plant Nursery	S1D73

Water Quality

- 10A.2.43 Within the Study Area of Section 1 there is one water quality archive monitoring station (Ref 10A.16), with a further station within 1 km of the draft Order Limits. The evaluation of water feature importance does not rely on water quality at any given time or period but reflects the scale, holistic value and sensitivity of a feature. However, relevant data will be used to inform the baseline at the ES stage of assessment.

Ecological Potential of Water Features

- 10A.2.44 There are no statutory or non-statutory designated ecological sites within Section 1 which have been deemed hydrologically important or have an active flow path. All designated sites located downstream of the Project were scoped out at the Scoping Stage and as such will not be considered in this DES. Additionally, within or downstream of the Study Area there are no known chalk rivers (Ref 10A.4).
- 10A.2.45 Ecological survey data will be used to further inform the determination of importance classification for each surface water receptor for the ES as and when this becomes available. Different types and levels of fish population, or the presence of relevant aquatic/semi-aquatic (e.g. water vole, otter) protected species, are relevant to the overall importance of a surface water feature.

Section 2 – South Kesteven

Climate

- 10A.2.46 The climate of Section 2 is similar to that of Section 1, and is therefore not described separately; reference should be made to Section 10A.2 (Section 1: Climate).

Topography and Land Use

- 10A.2.47 Within Section 2 the altitude increases travelling west peaking at 130 m near Gunby. The eastern side of Section 2 contains the dense drainage network present in Section 1.
- 10A.2.48 The general land use is typical for lowland areas in England, consisting predominantly of arable farmland, pockets of pastureland, and clusters of small woodlands. Additionally, there are multiple small towns along Section 2.

Geology

- 10A.2.49 Section 2 mainly covers three rock formations, the Kellaways Formation and Oxford Clay Formation, the Great Oolite Group, and the Lias Group. These three groups consist mainly of mudstone, siltstone, sandstone and limestone, with some argillaceous rock in the Great Oolite Group (Ref 10A.3).
- 10A.2.50 This section covers Principal, Secondary A, Secondary B and Secondary (Undifferentiated) and Unproductive aquifers. The most prevalent designations within Section 2 are Principal, Secondary A and Unproductive. Principal aquifer status appears in small areas around South Witham and Burton-le-Coggles (Ref 10A.4). Each type of aquifer is defined as described in the Baseline of Section 1.

Surface Water Features

- 10A.2.51 Section 2 is located within the Anglian RBD (Ref 10A.18) and within the Management Catchments of Welland, and Witham.
- 10A.2.52 The River Witham flows north through Section 2, between Bourne and Melton Mowbray, with land either side included in the Upper Witham IDB.
- 10A.2.53 As discussed in the Surface Water Features section of Section 1 there are a large number of watercourses within the Study Area, all of which have been identified and labelled according to a desk based study. The full watercourse list is provided in **Annex 1** and **Annex 2**.
- 10A.2.54 **Table 10A.7** lists and summarises pertinent information on the WER surface water features present within Section 2 (Ref 10A.15), as shown in **Figure 10.1 Surface water receptors and their attributes**, **Figure 10.2 Fluvial flood risk**, **Figure 10.3 Surface water flood risk**, and **Figure 10.4 WER surface water body catchments**.

Table 10A.7 Surface water features in Section 2 (Ref 10A.15)

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
South Forty Foot Drain	Black Sluice IDB draining to the South Forty Foot Drain	GB205030051515	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Main
	Multiple drains and ditches in the South Forty Foot Drain Catchment	-	Within Study Area, multiple crossed by proposed overhead line and within 100 m of towers	Ordinary
	Hacconby Lode	-	Proposed overhead line crosses water feature and within 100 m of towers, runs parallel to the overhead line for approximately 1.4 km.	Ordinary
	Car Dyke	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows north	Main
Glens	East Glen River	GB105031055480	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Main
	Multiple drains and ditches in the Glens catchment	-	Within Study Area, multiple crossed by proposed overhead line and within 100 m of towers	Ordinary
	Unnamed trib of East Glen River (EGR 1)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Multiple drains associated with EGR 1	-	All lie within Study Area but outside of draft Order Limits	Ordinary
	Grimsthorpe Park Brook	GB105031050450	Flows south, does not interact with Study Area. (3km south of Study Area)	Ordinary
	West Glen - Upper	GB105031055510	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Main

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of the West Glen River (WGR 1)	-	Flows approximately 275 m north of the proposed overhead line	Ordinary
	Unnamed trib of WGR 1 (WGR 2)	-	Flows approximately 430 m north of the proposed overhead line	Ordinary
	Unnamed trib of West Glen River (WGR 3)	-	Flows approximately 540 m south of the proposed overhead line	Ordinary
	Unnamed drain (UN 1)	-	Flows approximately 180 m north of the proposed overhead line	Ordinary
	Unnamed drain (UN 2)	-	Flows approximately 200 m north of the proposed overhead line	Ordinary
	Unnamed drain (UN 3)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows east	Ordinary
	Unnamed drain (UN 4)	-	Flows approximately 200 m northwest of the proposed overhead line	Ordinary
	Unnamed drain (UN 5)	-	Flows approximately 420 m north of the proposed overhead line	Ordinary
	The Tham	GB105031050650	Proposed overhead line crosses water feature, flows south	Ordinary
	Unnamed trib of the River Tham (RT 1)	-	Flows approximately 160 m south of the proposed overhead line	Ordinary
	Unnamed trib of the River Tham (RT 2)	-	Flows approximately 560 m south of the proposed overhead line	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of the River Tham (RT 3)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
Witham Upper	Witham - headwaters to conf Cringle Bk	GB105030051570	Proposed overhead line crosses water feature, flows north	Main
	Unnamed trib of River Witham (RWI 1)	-	Proposed overhead line crosses water feature and within 150 m of a tower, flows south	Ordinary
	Unnamed trib of River Witham (RWI 5)	-	Lies outside the Study Area, 820 m to the north	Ordinary
	Two drains associated with RWI 5	-	Both lie approximately 460 m north of the proposed overhead line	Ordinary
	Multiple drains and ditches in the Witham Upper Catchment	-	Within Study Area, two crossed by proposed overhead line and one within 100 m of a tower	Ordinary

10A.2.55 There are no flow gauging stations within the Study Area, but there are five stations in relative close vicinity upstream or downstream of watercourses within Section 2 as summarised in **Table 10A.8** with locations on **Figure 10.1 Surface water receptors and their attributes** (Ref 10A.9).

Table 10A.8 Summary of river flows in Section 2 (Ref 10A.9)

Gauge Ref, Name and NGR	Watercourse	Catchment Area (km ²)	Mean Flow (m ³ /s)	Q10* (m ³ /s)	Q95^ (m ³ /s)	BFI+	Record Period
31013, East Glen at Irnham, TF038273	East Glen	71.5	0.13	0.339	0.002	0.32	1969-2023
31011, West Glen at Burton Coggles, SK986261	West Glen	31.6	0.116	0.329	0.00	0.28	1969-2023
31023, West Glen at Easton Wood, SK965258	West Glen	4.4	0.02	0.048	0.00	0.12	1972-2022
30015, Cringle Brook at Stoke Rochford, SK924296	Cringle Brook	50.5	0.28	0.577	0.061	0.89	1976-2023
30017, Witham at Colsterworth, SK928246	Witham	51.3	0.219	0.512	0.019	0.5	1978-2023

*Q10: the flow that is equalled or exceeded 10% of the time – an index of high flow.

^Q95: the flow that is equalled or exceeded 95% of the time – an index of low flow.

+BFI: the BFI is a measure of the proportion of the river runoff that is derived from stored sources; the more permeable the rock, superficial deposits and soils in a catchment, the higher the baseflow and the more sustained the river's flow during periods of dry weather. Thus, the BFI is an effective means of indexing catchment geology.

10A.2.56 Based on the summary of the flow gauging stations in **Table 10A.8** the majority of the catchments are considered to have a relatively low BFI, meaning that baseflow is less important to sustaining flow indicating less permeable bedrock, superficial deposits and soils (i.e. flow is more dependent on surface water runoff and are likely to be susceptible to periods of dry weather). The exception is Cringle Brook, which has a much higher BFI.

Water Environment Regulation Classification

10A.2.57 A full summary of WER classifications for relevant water bodies in Section 2 is provided in **Table 10A.9** (Ref 10A.15).

Table 10A.9 WER summary for surface water bodies in Section 2 (Ref 10A.15)

WER Parameter	Water Body Summary					
Water Body ID	GB205030051515	GB105031055480	GB105031050450	GB105031055510	GB105031050650	GB105030051570
Water Body Name	Black Sluice IDB draining to the South Forty Foot Drain	East Glen River	Grimsthorpe Park Brook	West Glen - Upper	The Tham	Witham – headwaters to conf Cringle Bk
Water Body Type	River	River	River	River	River	River
Water Body Area (km ²)	447.2	106.8	22.8	74.0	24.3	63.2
Water Body Length (km)	34.7	28.8	3.4	22.6	11.0	21.4
Hydromorphological designation	Heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified
Overall Ecological Status/potential	Poor	Poor	Good	Poor	Moderate	Poor
Status Objective	Moderate by 2015	Good by 2027	Good by 2015	Good by 2027	Good by 2027	Good by 2033
Biological Quality Elements	Poor	Poor	N/A	Poor	Moderate	Poor
Physico-chemical Quality Elements	Moderate	Moderate	Not monitored Cycle 3 (Good Cycle 2)	Good	Moderate	Moderate
Hydromorphological Quality Elements	Not high	Not high	Not high	Not high	Not high	Not high

- 10A.2.58 Within the Humber and Anglian RBDs, Section 2 passes through several management catchments. The majority of these water body catchments are not designated as artificial or heavily modified, although one is heavily modified. The majority are only at Poor or Moderate Ecological Status due to biological or physico-chemical quality elements being classed as less than Good.
- 10A.2.59 The reasons for not achieving good ecological status are shared by many of the water bodies and include the risk of pollution from rural areas and from wastewater discharges. All water bodies share a chemical status of 'fail' due to exceedance of priority hazardous substances, in particular mercury and its compounds, as well as PBDE. However, these are chemical substances that are unlikely to be introduced by any phases of the Project.

Hydromorphology

- 10A.2.60 The majority of WER water bodies in Section 2 are not designated as artificial or as heavily modified water bodies. The larger Main Rivers including West Glen and East Glen will likely have a higher geomorphological quality. However, the majority of water features not directly designated under the WER are artificially straight channels, likely modified for agricultural drainage purposes and have relatively low hydromorphological diversity. Walkover surveys have been undertaken to inform subsequent stages of the assessment and the ES and will allow a more detailed classification of the physical form and function of watercourses that may be impacted by the Project. A summary of the watercourses visited in the Study Area is provided in **Appendix 10D: Surface Water Environment Walkover Summary**.

Water Resources, Abstractions and Discharges

Protected Areas

- 10A.2.61 There are no DrWPAs or Drinking Water Safeguard Zones in Section 2 (Ref 10A.4).
- 10A.2.62 The entirety of Section 2 lies within a NVZ, which are areas designated as being at risk from agricultural nitrate pollution. Due to the nature of this Project NVZs were scoped out at the scoping stage and will not be considered in this DES.

Pollution Incidents

- 10A.2.63 The Environment Agency's publicly accessible data from the Government Data portal on pollution incidents and a data set received from the Environment Agency from a freedom of information request for pollution incidents for the period 2002-2025 have been interrogated (Ref 10A.22). Neither source highlighted any pollution incidents within Section 2 during this period.

Surface Water Abstractions

- 10A.2.64 Within Section 2 there are two Abstraction Licensing Strategies including the following:
- The Welland Catchment Abstraction Licensing Strategy (Ref 10A.24) shows the water resource available at least 30% of the time.
 - The Witham Abstraction Licensing Strategy (Ref 10A.25) shows the water resource available at least 30% of the time.

10A.2.65 According to the Environment Agency there are 17 licenced abstraction points located within the Study Area but outside of the draft Order Limits. These are listed in **Table 10A.10** and shown on **Figure 10.1: Surface water receptors and their attributes**. All abstractions are related to agriculture and used for spray irrigation, either directly or for storage.

Table 10A.10 Surface water abstraction licenses in Section 2 (Data obtained from Environment Agency data request)

License Number	Figure Code	NGR	Source	Relevance
4/30/12/*S/0019	A8	TF1249026400	Unnamed Drain	Within 500 m Study Area
4/30/12/*S/0086	A9	TF1540026000	Hacconby Lode Drain	Within 500 m Study Area
4/30/12/*S/0285	A10	TF1143025510	Carr Dyke	Within 500 m Study Area
AN/030/0012/027	A15	TF1563426011	Hacconby Lode Drain	Within 500 m Study Area
	A16	TF1659226236	Hacconby Lode Drain	Within 500 m Study Area
	A17	TF1600526112	Hacconby Lode Drain	Within 500 m Study Area
	A18	TF1633126182	Hacconby Lode Drain	Within 500 m Study Area
	A19	TF1563426011	Hacconby Lode Drain	Within 500 m Study Area
AN/030/0012/028	A20	TF1464126083	Hacconby Lode Drain	Within 500 m Study Area
	A21	TF1563426011	Hacconby Lode Drain	Within 500 m Study Area
	A22	TF1496926091	Hacconby Lode Drain	Within 500 m Study Area
	A23	TF1535325998	Hacconby Lode Drain	Within 500 m Study Area
	A24	TF1464126083	Hacconby Lode Drain	Within 500 m Study Area
AN/030/0012/029	A25	TF1379726128	Hacconby Lode Drain	Within 500 m Study Area
	A26	TF1464126083	Hacconby Lode Drain	Within 500 m Study Area
	A27	TF1433126102	Hacconby Lode Drain	Within 500 m Study Area
	A28	TF1379726128	Hacconby Lode Drain	Within 500 m Study Area

Private Water Supplies

10A.2.66 Following a review of a data request from South Kesteven Council there are five PWS within the Study Area. All five are borehole extractions, further details of which are provided in **Table 10A.11**. The impact on these abstractions will be assessed in **Chapter 11 Geology and Hydrogeology** and will not be assessed further by the Water Environment aspect.

Table 10A.11 Summary of PWS in Section 2 (Data from South Kesteven Council)

Permit Number	NGR	Distance from draft Order Limits
P4756	TF1418425704	400m
P4757	TF1617325684	490m
P60742	TF1388725646	270m
P89963	TF1459626917	10m
P60873	TF1303025710	400m

Water Activity Permits

10A.2.67 Information on consented discharges was obtained from the Environment Agency through a freedom of information request. There are no consented discharges within the draft Order Limits, however, there are three within the wider Study Area of Section 2, they are summarised in **Table 10A.12**. Their locations are shown in **Figure 10.1 Surface water receptors and their attributes**.

Table 10A.12 Consented discharges in Section 2 (Data obtained from Environment agency data request)

Figure Code	Permit Number	Long Name	National Grid Reference	Start Date	Discharge Type	Receiving Water
D12	ANNNF13465	Fen Road Pumping Station	TF1078025440	20/03/2000	Pumping Station on Sewerage Network (water company)	S2D33
D16	PRNNF18659	Honey Pot Lane	SK9448021910	16/11/2006	Making of Food Products/Dairy	Unnamed Drain
D17	PRNNF18713	Honey Pot Lane Industrial Estate	SK9479621715	01/02/2007	Real Estate Activities/Buying/Selling/Renting	Unknown

Water Quality

- 10A.2.68 Within the Study Area of Section 2 there are two water quality archive monitoring stations (Ref 10A.16), with a further two stations within 1km of the draft Order Limits. Relevant data will be used to inform the baseline at the ES stage of assessment. The evaluation of water feature importance does not rely on water quality at any given time or period but reflects the scale, holistic value and sensitivity of a feature. However, relevant data will be used to inform the baseline at the ES stage of assessment.

Ecological Potential of Water Features

- 10A.2.69 There are no statutory or non-statutory designated ecological sites within Section 2 which have been deemed hydrologically important or have an active flow path. All designated sites located downstream of the Project were scoped out at the Scoping Stage and as such will not be considered in this DES. Additionally, within or downstream of the Study Area there are no known chalk rivers (Ref 10A.4).
- 10A.2.70 Ecological survey data will be used to further inform the determination of importance classification for each surface water receptor for the ES. Different types and levels of fish population, or the presence of relevant aquatic/semi-aquatic (e.g. water vole, otter) protected species, are relevant to the overall importance of a surface water feature.

Section 3 - Melton

Climate

- 10A.2.71 The climate of Section 3 is similar to that of Section 1, and is therefore not described separately; reference should be made to Section 10A.2 (Section 1: Climate).

Topography and Land Use

- 10A.2.72 Travelling west along the Project to Section 3 the altitude increases to approximately 150 m above sea level just northwest of Melton Mowbray. The Project would cross the River Wreake at approximately 70 m above sea level to the west of Melton Mowbray.
- 10A.2.73 The general land use is typical for lowland areas in England, consisting predominantly of arable farmland, pockets of pastureland, some urban areas, and clusters of small woodlands. Main towns and villages either within or near the Section 3 include Melton Mowbray and Asfordby.

Geology

- 10A.2.74 Section 3 mainly covers two rock formations, the Inferior Oolite Group, and the Lias Group. These two groups consist mainly of mudstone, siltstone, sandstone and limestone (Ref 10A.3).
- 10A.2.75 This section covers Secondary A, Secondary (Undifferentiated) and Unproductive aquifers. The most prevalent designation within Section 3 is Secondary (Undifferentiated). Secondary A aquifer status appears in a small area around the WMEL-B siting area (Ref 10A.4). Each type of aquifer is defined as described in the Baseline of Section 1.

Surface Water Features

- 10A.2.76 Section 3 is located within the Anglian and Humber RBDs (Ref 10A.18 and Ref 10A.19) and within the Management Catchments of Witham and Soar.
- 10A.2.77 As discussed in the Surface Water Features section of Section 1 there are a large number of watercourses within the Study Area, all of which have been identified and labelled according to a desk based study. The full watercourse list is provided in **Annex 1** and **Annex 2**.
- 10A.2.78 **Table 10A.13** (Ref 10A.15) lists and summarises pertinent information on the WER surface water features as shown in **Figure 10.1 Surface water receptors and their attributes**, **Figure 10.2 Fluvial flood risk**, **Figure 10.3 Surface water flood risk**, and **Figure 10.4 WER surface water body catchment**.

Table 10A.13 Surface water features in Section 3 (Ref 10A.15)

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
Wreake River	Wymondham Brook Catchment (trib of Langham Brook)	GB104028047540	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed trib of the Wymondham Brook (WB 1)	-	Flows approximately 500 m south of the proposed overhead line	Ordinary
	Unnamed trib of the Wymondham Brook (WB 2)	-	Flows approximately 400 m south of the proposed overhead line	Ordinary
	Unnamed trib of the Wymondham Brook (WB 3)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows east	Ordinary
	Unnamed trib of the Wymondham Brook (WB 4)	-	Flows approximately 430 m north of the proposed overhead line	Ordinary
	Unnamed trib of the Wymondham Brook (WB 5)	-	Flows approximately 510 m north of the proposed overhead line	Ordinary
	Unnamed trib of the Wymondham Brook (WB 6)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south east	Ordinary
	Unnamed trib of the Wymondham Brook (WB 7)	-	Flows approximately 490 m south of the proposed overhead line	Ordinary
	Eye from Source to Langham Brook	GB104028047610	Passes through the Study Area flowing south	Ordinary
	Unnamed trib of the River Eye (RE 1)	-	Flows approximately 500 m south of the proposed overhead line	Ordinary
	Unnamed trib of the River Eye (RE 2)	-	Flows approximately 440 m south of the proposed overhead line	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of the River Eye (RE 3)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed trib of the River Eye (RE 4)	-	Flows approximately 90 m south of the proposed overhead line	Ordinary
	Unnamed trib of the River Eye (RE 5)	-	Proposed overhead line crosses water feature, flows southeast	Ordinary
	Unnamed trib of the River Eye (RE 6)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Freeby Brook Catchment (trib of Eye)	GB104028047580	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed trib of Freeby Brook (FB 1)	-	Flows approximately 250 m south of the proposed overhead line	Ordinary
	Unnamed trib of Freeby Brook (FB 2)	-	Lies within 100 m of a tower, flows east	Ordinary
	Unnamed trib of Freeby Brook (FB 3)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed trib of Freeby Brook (FB 4)	-	Flows approximately 170 m north of the proposed overhead line	Ordinary
	Unnamed trib of Freeby Brook (FB 5)	-	Flows approximately 430 m north of the proposed overhead line	Ordinary
	Unnamed trib of Freeby Brook (FB 6)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed drain (UN 6)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Eye/Wreake from Langham Brook to Soar	GB104028047550	Reconductored overhead line crosses water feature and within 100 m of a tower, flows west. Within reconductoring section rather than new overhead line section.	Main
	Thorpe Brook Catchment (trib of Eye)	GB104028047590	Passes through the Study Area flowing south	Ordinary
	Unnamed trib of Thorpe Brook (TB 1)	-	Flows approximately 100 m south of the proposed overhead line	Ordinary
	Unnamed trib of Thorpe Brook (TB 2)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows southwest	Ordinary
	Unnamed trib of Thorpe Brook (TB 3)	-	Flows approximately 540 m north of the proposed overhead line	Ordinary
	Scalford Brook Catchment (trib of Wreake)	GB104028047600	Proposed overhead line crosses water feature and within 100 m of a tower, flows generally south	Ordinary
	Unnamed trib of Scalford Brook (SCB 1)	-	Flows approximately 230 m south of the proposed overhead line	Ordinary
	Unnamed trib of Scalford Brook (SCB 2)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows generally southeast	Ordinary
	Unnamed trib of Scalford Brook (SCB 3)	-	Flows approximately 170 m south of the proposed overhead line	Ordinary
	Unnamed trib of Scalford Brook (SCB 4)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows east. overhead line runs parallel to tributary for approximately 450 m.	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of Scalford Brook (SCB 5)	-	Flows approximately 160 m north of the proposed overhead line	Ordinary
	Unnamed trib of Scalford Brook (SCB 6)	-	Flows approximately 280 m north of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 1)	-	Flows approximately 350 m south of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 2)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary
	Unnamed trib of River Wreake (RWR 3)	-	Flows approximately 670 m south of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 4)	-	Flows approximately 440 m north of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 5)	-	Flows approximately 530 m north of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 6)	-	Flows approximately 630 m north of the proposed overhead line	Ordinary
	Unnamed trib of River Wreake (RWR 7)	-	Proposed overhead line crosses water feature and within 100 m of a tower, flows southwest	Ordinary
	Welby Brook Catchment (trib of Wreake)	GB104028047570	Proposed overhead line crosses water feature and within 100 m of a tower, flows south	Ordinary into Main
	Austen Dyke Catchment (trib of Wreake)	GB104028047560	Crossed by both the proposed overhead line and reconducted overhead line, falls within 100 m of a reconducted tower. Flows southeast.	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of Austen Dyke (AD 1)	-	Flows approximately 370 m west of the reconducted overhead line, flows southeast.	Ordinary
	Unnamed trib of Austen Dyke (AD 2)	-	Flows along western side of WMEL-B draft Order Limits, crosses reconducted overhead line, flows southeast.	Ordinary
	Unnamed trib of Austen Dyke (AD 3)	-	Flows through WMEL-B site, under proposed substation, crosses reconducted overhead line, flows southeast.	Ordinary
	Unnamed trib of Austen Dyke (AD 4)	-	Flows along eastern side of WMEL-B draft Order Limits and forms part of the Wartnaby Fishing Ponds. Lies approximately 165 m north of the proposed overhead line	Ordinary
	River Wreake	GB104028047550	Reconducted overhead line crosses water feature, flows east	Main
	Unnamed drains located between Austen Dyke and Gaddesby Brook	-	Within Study Area, multiple crossed by reconducted overhead line and within 100 m of towers	Ordinary
	Queniborough Brook Catchment (trib of Wreake) (Gaddesby Brook)	GB104028047450	Reconducted overhead line crosses water feature and within 100 m of a tower, flows west. Within reconductoring section rather than new overhead line section.	Main
	Unnamed trib of Gaddesby Brook (GB1)	-	Crossed by reconducted overhead line, flows west	Ordinary
	Unnamed drain, trib of trib of Gaddesby Brook (GB 2)	-	Flows 200m east of the reconducted overhead line, flows southwest	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed drain, trib of trib of Gaddesby Brook (GB 3)	-	Flows 550m east of the reconducted overhead line, flows west	Ordinary
	Unnamed drain, trib of Gaddesby Brook (GB 4)	-	Flows 500m west of the reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of Gaddesby Brook (GB 5)	-	Flows 230m west of the reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of Gaddesby Brook (GB 6)	-	Crossed by reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of Gaddesby Brook (GB 7)	-	Flows 20m northeast of the reconducted overhead line, flows northeast	Ordinary
	Kirby Lake	-	Within Study Area, approximately 345 m east of the reconducted overhead line.	N/A
	Frisby Lakes	-	Within Study Area, approximately 345 m west of the reconducted overhead line.	N/A
	Wartnaby Fishing Ponds	-	Proposed overhead line passes directly over the main fishing pond, also the proposed WMEL-B boundary lies within 400m of the pond. Spring which feeds the pond runs alongside WMEL-B Draft Order Limits, within 220m of the proposed substation boundary.	N/A

10A.2.79 There are no flow gauging stations within the Study Area for Section 3. However, there is one flow gauging station located in the vicinity of the Study Area downstream of the Project on the River Wreake. This station is summarised in **Table 10A.14** (Ref 10A.9). See also **Figure 10.1 Surface water receptors and their attributes** for their location.

Table 10A.14 Summary of river flows in Section 3 (Ref 10A.9)

Gauge Ref, Name and NGR	Watercourse	Catchment Area (km ²)	Mean Flow (m ³ /s)	Q10* (m ³ /s)	Q95^ (m ³ /s)	BFI ⁺	Record Period
28024, Wreake at Syston Mill, SK615124	Wreake	413.8	2.823	6.964	0.296	0.4	1967-2023

*Q10: the flow that is equalled or exceeded 10% of the time – an index of high flow.

^Q95: the flow that is equalled or exceeded 95% of the time – an index of low flow.

*BFI: the BFI is a measure of the proportion of the river runoff that is derived from stored sources; the more permeable the rock, superficial deposits and soils in a catchment, the higher the baseflow and the more sustained the river's flow during periods of dry weather. Thus, the BFI is an effective means of indexing catchment geology.

10A.2.80 Based on the summary of the flow gauging station in **Table 10A.14**, noting that this is approximately 13.5 km downstream of the Study Area, the majority of the catchments are considered to have a relatively low BFI, meaning that baseflow is less important to sustaining flow indicating less permeable bedrock, superficial deposits and soils. These watercourses are more dependent on surface water runoff and are likely to be susceptible to periods of dry weather.

Water Environment Regulation Classification

10A.2.81 A full summary of WER classifications for relevant water bodies in Section 3 is provided in **Table 10A.15** (Ref 10A.15).

Table 10A.15 WER summary for surface water bodies in Section 3 (Ref 10A.15)

WER Parameter	Water Body and Summary									
Water Body ID	GB104028047540	GB104028047610	GB104028047580	GB104028047550	GB104028047590	GB105030051570	GB104028047600	GB104028047570	GB104028047560	GB104028047450
Water Body Name	Wymondham Brook Catchment (trib of Langham Brook)	Eye from Source to Langham Brook	Freeby Brook Catchment (trib of Eye)	Eye / Wreake from Langham Brook to Soar	Thorpe Brook Catchment (trib of Eye)	Witham – headwaters to conf Cringle Bk	Scalford Brook Catchment (trib of Wreake)	Welby Brook Catchment (trib of Wreake)	Austen Dyke Catchment (trib of Wreake)	Queniborough Brook Catchment (trib of Wreake)
Water Body Type	River	River	River	River	River	River	River	River	River	River
Water Body Area (km2)	15.1	31.8	16.3	98.1	15.8	63.2	23.9	11.7	13.4	76.1
Water Body Length (km)	4.4	13.8	3.7	38.7	9.7	21.4	9.6	1.5	2.1	32.7
Hydromorphological designation	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified
Overall Ecological Status/ potential	Moderate	Moderate	Moderate	Poor	Moderate	Poor	Poor	Poor	Moderate	Moderate
Biological Quality Elements	Moderate	Moderate	Moderate	Poor	Moderate	Poor	Poor	Poor	Moderate	Good
Physico-chemical Quality Elements	Moderate	Good	Moderate	Moderate	Moderate	Moderate	Good	Moderate	Good	Moderate
Hydromorphological Quality Elements	Not high	Not high	Not high	Not high	Not high	Not high	Not high	Not high	Not high	Not high

- 10A.2.82 Within the Humber and Anglian RBDs the Section 3 passes through several management catchments. These water body catchments are not designated as artificial or heavily modified, although one is heavily modified. They are only at Poor or Moderate Ecological Status due to biological or physico-chemical quality elements being classed as less than Good.
- 10A.2.83 The reasons for not achieving good ecological status are shared by many of the water bodies and include the risk of pollution from rural areas and from wastewater discharges. All water bodies share a chemical status of 'fail' due to exceedance of priority hazardous substances, in particular mercury and its compounds, as well as polybrominated diphenyl ethers (PBDEs). However, these are chemical substances that are unlikely to be introduced by any phases of the Project.

Hydromorphology

- 10A.2.84 The WER water bodies in Section 2 are not designated as artificial or as heavily modified water bodies. Walkover surveys have been undertaken to inform subsequent stages of the assessment and the ES and will allow a more detailed classification of the physical form and function of watercourses that may be impacted by the Project. A summary of the watercourses visited in the Study Area is provided in **Appendix 10D Surface Water Environment Walkover Summary**.

Water Resources, Abstractions and Discharges

Protected Areas

- 10A.2.85 There are no DrWPAs or Drinking Water Safeguard Zones in Section 3 (Ref 10A.4).
- 10A.2.86 The entirety of Section 3 lies within a Nitrate Vulnerable Zone (NVZ), which are areas designated as being at risk from agricultural nitrate pollution. Due to the nature of this Project NVZs were scoped out at the scoping stage and will not be considered in this DES.

Pollution Incidents

- 10A.2.87 The Environment Agency's publicly accessible data from the Government Data portal on pollution incidents has been interrogated (Ref 10A.22). Pollution incidents to water are classified as category 1 (serious impact) through to category 4 (no impact). There has been one category 2 incidents reported in the Study Area of Section 3 in the past 10 years. Details of which are shown in **Table 10A.16** and the location of which is shown in **Figure 10.1 Surface water receptors and their attributes**. No information was available regarding the causation or pollutant involved in the incident. No category 1 events were reported in the same timeframe.

Table 10A.16 Pollution Incidents within Section 3 (2015-2025) (Ref 10A.22)

Notification Date	Figure ID	Location	Water Category	Proximity to Scheme	NGR	Receiving Waterbody
09/06/2019	P1	Adjacent to Asfordby Business Park	2 (Significant)	475m south, Section 3	SK 72867 21047	RWR 3

- 10A.2.88 Information on pollution incidents for the period 2002-2025 has also been obtained from the Environment Agency through a freedom of information request. No incidents lie within the Study Area of Section 3 of the Project according to this data.
- 10A.2.89 There is an apparent discrepancy between these two data sets as the publicly available 'Environmental Pollution Incidents (Category 1 and 2)' data contains a category 2 pollution incident within the Study Area (**Table 10A.16**), while the list obtained directly from the Environment Agency through a data request does not contain these incidents. Currently, the reason for this difference is unknown.

Surface Water Abstractions

- 10A.2.90 Within the Study Area there are several Abstraction Licensing Strategies including the following:
- The Witham Abstraction Licensing Strategy (Ref 10A.25) shows the water resource available at least 30% of the time; and
 - The Soar Abstraction Licensing Strategy (Ref 10A.26) shows the water resource available at least 95% of the time.
- 10A.2.91 There is one abstraction point located within Section 3, on the basis of data provided by the Environment Agency. It is located outside of the Draft Order Limits but within the Study Area at NGR: SK840212 on the River Eye. It has been given the figure code A32 and is displayed on **Figure 10.1 Surface water receptors and their attributes**. This abstraction is related to agriculture with it being used directly for spray irrigation and is under license number 03/28/54/0042.

Private Water Supplies

- 10A.2.92 Information has been requested from Melton Borough Council and is currently outstanding. This information will be incorporated into the assessment at ES stage.

Water Activity Permits

- 10A.2.93 Information on consented discharges was obtained from the Environment Agency through a freedom of information request. There are no consented discharges within the draft Order Limits, however, there are seven within the wider Study Area of Section 3, and these are summarised in **Table 10A.17** with their locations shown on **Figure 10.1 Surface water receptors and their attributes**.

Table 10A.17 Consented discharges in Section 3 (Data obtained from Environment Agency data request)

Figure Code	Permit Number	Long Name	National Grid Reference	Start Date	Discharge Type	Receiving Water
D21	T/55/20905/S	Asfordby Amateurs Sports Club	SK6979019550	11/01/1992	WwTW (not water co) (not STP at a private premises)	Unknown
D22	T/54/40013/S	The Glossoms	SK7718022980	24/08/1994	Domestic property (single) (incl. farm house)	Unknown
D23	3/28/55/2585	The Clubhouse	SK6970018600	14/05/1974	Domestic property (single) (incl. farm house)	Unknown
D24	T/55/02317/O	Twyford Sps - Storm/Emergency O/F	SK7280010200	20/02/1973	Pumping Station on Sewerage Network (water company)	Gaddesby Brook
D25	EPRAP3427GF	Skylark Farm	SK7201909385	11/08/2010	Domestic property (single) (incl. farm house)	Unknown
D26	EPRCB3897VE	Station Lane Pumping Station	SK7053018550	12/08/2015	WwTW/Sewage Treatment Works (water company)	River Wreake
D27	EPRYB3094EJ	Saxelbye - Saxelbye Lane Sps	SK6991720713	12/12/2023	Pumping Station on Sewerage Network (water company)	Austen Dyke

Water Quality

- 10A.2.94 Within the Study Area of Section 3 there are no water quality archive monitoring stations (Ref 10A.16), however there are two stations within 1km of the draft Order Limits. Relevant data will be used to inform the baseline at the ES stage of assessment. The evaluation of water feature importance does not rely on water quality at any given time or period but reflects the scale, holistic value and sensitivity of a feature. However, relevant data will be used to inform the baseline at the ES stage of assessment.

Ecological Potential of Water Features

- 10A.2.95 There are no statutory or non-statutory designated ecological sites within Section 3 which have been deemed hydrologically important or have an active flow path. All designated sites located downstream of the Project were scoped out at the Scoping Stage and as such will not be considered in this DES. Additionally, within or downstream of the Study Area there are no known chalk rivers (Ref 10A.4).
- 10A.2.96 Ecological survey data will be used to further inform the determination of importance classification for each surface water receptor for the ES. Different types and levels of fish population, or the presence of relevant aquatic/semi-aquatic (e.g. water vole, otter) protected species, are relevant to the overall importance of a surface water feature.

Section 4 - Harborough

Climate

- 10A.2.97 The climate of Section 4 is similar to that of Section 1, and is therefore not described separately; reference should be made to Section 10A.2 (Section 1: Climate).

Topography and Land Use

- 10A.2.98 The topography within Section 4 remains at approximately 100 m, with slight undulations between 90 to 145 m. The Project would cross the Eye Brook in Section 4 at approximately 150 m above sea level. The highest points are to the east of Leicester at approximately 190 m, near Skeffington.
- 10A.2.99 The general land use is typical for lowland areas in England, consisting predominantly of arable farmland, pockets of pastureland, some urban areas, and clusters of small woodlands. Main towns and villages either within or near the Study Area include Market Harborough and Glooston.

Geology

- 10A.2.100 Section 4 mainly covers one rock formation, the Lias Group. This group consists mainly of mudstone, siltstone, sandstone and limestone (Ref 10A.3).
- 10A.2.101 This section covers Secondary A, Secondary (Undifferentiated) and Unproductive aquifers. The most prevalent designation within Section 4 is Secondary (Undifferentiated). Secondary A aquifer status appears in small areas around Tilton on the Hill and Skeffington (Ref 10A.4). Each type of aquifer is defined as described in the Baseline of Section 1.

Surface Water Features

- 10A.2.102 Section 4 is located within the Anglian and Humber RBDs (Ref 10A.18 and Ref 10A.19) and within the Management Catchments of Welland and Soar.
- 10A.2.103 As discussed in the Surface Water Features section of Section 1 there are a large number of watercourses within the Study Area, all of which have been identified and labelled according to a desk based study. The full watercourse list is provided in **Annex 1** and **Annex 2**.
- 10A.2.104 **Table 10A.18** (Ref 10A.15) lists and summarises pertinent information on the WER surface water features as shown in **Figure 10.1 Surface water receptors and their attributes**, **Figure 10.2 Fluvial flood risk**, **Figure 10.3 Surface water flood risk**, and **Figure 10.4 WER surface water body catchment**.

Table 10A.18 Surface water features in Section 4 (Ref 10A.15)

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
Wreake River	Unnamed river, trib of Gaddesby Brook (GB 8)	-	Flows 500m east of reconducted overhead line, flows approximately north	Ordinary
	Unnamed drain, trib of trib of Gaddesby Brook (GB 9)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed drain, trib of trib of Gaddesby Brook (GB 10)	-	Crossed by reconducted overhead line, flows north east	Ordinary
	Unnamed drains of Wreake River Catchment	-	Within Study Area, multiple crossed by reconducted overhead line and within 100 m of towers	Ordinary
	Queniborough Brook	-	Crossed by reconducted overhead line, flows west	Ordinary
	Trib of Queniborough Brook (QB 1)	-	Crossed by reconducted overhead line, flows west	Ordinary
Welland Upper	Eye Brook	GB105031050550	Passes through Study Area, flows south east.	Ordinary
	Unnamed drain, trib of Eye Brook (EB 1)	-	Flows 500m west of the reconducted overhead line, flows south	Ordinary
	Unnamed drain, trib of Eye Brook (EB 2)	-	Flows 470m west of the reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of Eye Brook (EB 3)	-	Flows 185m west of the reconducted overhead line, flows northeast	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed drain, trib of Eye Brook (EB 4)	-	Crossed by reconducted overhead line, flows south	Ordinary
	Unnamed drain, trib of Eye Brook (EB 5)	-	Crossed by reconducted overhead line, flows west	Ordinary
	Unnamed drain, trib of Eye Brook (EB 6)	-	Flows 140m west of the reconducted overhead line, flows east	Ordinary
	Unnamed drain, trib of Eye Brook (EB 7)	-	Crossed by reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of Eye Brook (EB 8)	-	Flows 450m east of the reconducted overhead line, flows south	Ordinary
	Unnamed drain, trib of Eye Brook (EB 9)	-	Flows 290m east of the reconducted overhead line, flows east	Ordinary
	Unnamed drain, trib of Eye Brook (EB 10)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed drain, trib of Eye Brook (EB 11)	-	Flows 35m west of the reconducted overhead line, flows northeast	Ordinary
	Stonton Brook	GB105031050460	Passes through Study Area, flows south	Main
	Unnamed trib of Stonton Brook (STB 1)	-	Flows 440m west of the reconducted overhead line, flows northeast	Ordinary
	Unnamed trib of Stonton Brook (STB 2)	-	Flows 350m west of the reconducted overhead line, flows south	Ordinary
	Unnamed trib of Stonton Brook (STB 3)	-	Flows 50m east of the reconducted overhead line, flows south	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of trib of Stonton Brook (STB 4)	-	Crossed by the reconducted overhead line, flows southeast	Ordinary
	Unnamed trib of Stonton Brook (STB 5)	-	Flows 420m east of the reconducted overhead line, flows southwest	Ordinary
	Unnamed trib of trib of Stonton Brook (STB 6)	-	Flows 420m east of the reconducted overhead line, flows west	Ordinary
	Unnamed trib of Stonton Brook (STB 7)	-	Flows 200m east of the reconducted overhead line, flows south	Ordinary
	Unnamed trib of Stonton Brook (STB 8)	-	Flows 30m west of the reconducted overhead line, flows east	Ordinary
	Unnamed trib of Stonton Brook (STB 9)	-	Crossed by the reconducted overhead line, flows east	Ordinary
	Unnamed trib of Stonton Brook (STB 10)	-	Crossed by the reconducted overhead line, flows east	Ordinary
	Unnamed trib of Stonton Brook (STB 11)	-	Flows 120m east of the reconducted overhead line, flows west	Ordinary
	Unnamed trib of Stonton Brook (STB 12)	-	Flows 115m east of the reconducted overhead line, flows west	Ordinary
	Unnamed trib of Stonton Brook (STB 13)	-	Flows 110m east of the reconducted overhead line, flows west	Ordinary
	Unnamed trib of Stonton Brook (STB 14)	-	Crossed by the reconducted overhead line, flows north	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Glooston Arm	-	Crossed by the reconductored overhead line, flows west	Ordinary
	Unnamed drain, trib of Glooston Arm (GA 1)	-	Flows 80m east of the reconductored overhead line, flows southeast	Ordinary
	Unnamed drain, trib of Glooston Arm (GA 2)	-	Flows 410m east of the reconductored overhead line, flows north	Ordinary
	Welland - conf Langton Bk to conf Gwash	GB105031050580	Passes through Study Area, flows east	Main
	Unnamed trib of the River Welland (RWE 1)	-	Passes through Study Area flowing east. Tributary of Welland	Main
	Unnamed trib of trib of River Welland (RWE 2)	-	Flows 230m east of the reconductored overhead line, flows southeast	Ordinary
	Unnamed trib of trib of trib of River Welland (RWE 3)	-	Crossed by the reconductored overhead line, flows east	Ordinary
	Unnamed trib of trib of River Welland (RWE 4)	-	Flows 450m east of the reconductored overhead line, flows northeast	Ordinary
	Unnamed trib of the River Welland (RWE 5)	-	Crossed by reconductored overhead line, flows southeast	Ordinary
	Langton Brook	GB105031045620	Passes through Study Area, flows east.	Main
	Unnamed trib of Langton Brook (LB 1)	-	Flows 180m west of the reconductored overhead line, flows east	Ordinary
	Unnamed trib of Langton Brook (LB 2)	-	Flows 270m west of the reconductored overhead line, flows east	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of Langton Brook (LB 3)	-	Flows 580m west of the reductored overhead line, flows north	Ordinary
	Welland - conf Jordan to conf Langton Bk	GB105031045610	Passes through Study Area, flows north east	Main
	Unnamed trib of the River Welland (RWE 6)	-	Flows 130m west of the reductored overhead line, flows east	Ordinary
	Unnamed trib of the River Welland (RWE 7)	-	Flows 110m west of the reductored overhead line, flows east	Ordinary
	Unnamed trib of the River Welland (RWE 10)	-	Flows 260m west of the reductored overhead line, flows south	Ordinary
	Jordan (Welland)	GB105031045600	Passes through Study Area, flows north west	Main
	Unnamed drains of the Welland Upper Catchment	-	Within Study Area, multiple crossed by reductored overhead line and within 100 m of towers	Ordinary

10A.2.105 There are no flow gauging stations within the Study Area. However, there are some flow gauging stations located in the vicinity either upstream or downstream of watercourses within Section 4 that can be used to estimate flows. These three stations are summarised in **Table 10A.19** (Ref 10A.9) and their locations are shown on **Figure 10.1 Surface water receptors and their attributes**.

Table 10A.19 Summary of river flows in Section 4 (Ref 10A.9)

Gauge Ref, Name and NGR	Watercourse	Catchment Area (km ²)	Mean Flow (m ³ /s)	Q10* (m ³ /s)	Q95^ (m ³ /s)	BFI ⁺	Record Period
31001, Eye Brook at Eye Brook Reservoir, SP853941	Eye Brook	60.1	0.231	0.605	0.035	0.41	1937-1999
31021, Welland at Ashley, SP818915	Welland	250.7	1.514	3.81	0.134	0.36	1970-2023
31022, Jordan at Market Harborough, SP740866	Jordan	20.8	0.091	0.271	0.003	0.35	1970-2023

*Q10: the flow that is equalled or exceeded 10% of the time – an index of high flow.

^Q95: the flow that is equalled or exceeded 95% of the time – an index of low flow.

+BFI: the BFI is a measure of the proportion of the river runoff that is derived from stored sources; the more permeable the rock, superficial deposits and soils in a catchment, the higher the baseflow and the more sustained the river's flow during periods of dry weather. Thus, the BFI is an effective means of indexing catchment geology.

10A.2.106 Based on the summary of the flow gauging stations in **Table 10A.19**, noting that these are a distance upstream or downstream of the Study Area, the majority of the catchments are considered to have a relatively low BFI, meaning that baseflow is less important to sustaining flow indicating less permeable bedrock, superficial deposits and soils. These watercourses are more dependent on surface water runoff and are likely to be susceptible to periods of dry weather.

Water Environment Regulation Classification

10A.2.107 A full summary of WER classifications for relevant water bodies in Section 3 is provided in **Table 10A.20** (Ref 10A.15).

Table 10A.20 WER summary for surface water bodies in Section 4 (Ref 10A.15)

WER Parameter	Water Body and Summary					
Water Body ID	GB105031050550	GB105031050460	GB105031050580	GB105031045620	GB105031045610	GB105031045600
Water Body Name	Eye Brook	Stonton Brook	Welland – conf Langton Bk to conf Gwash	Langton Brook	Welland – conf Jordan to conf Langton Bk	Jordan (Welland)
Water Body Type	River	River	River	River	River	River
Water Body Area (km ²)	60.1	41.9	126.1	58.8	16.5	21.3
Water Body Length (km)	29.4	8.3	53.3	8.8	6.1	5.5
Hydromorphological designation	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified
Overall Ecological Status/potential	Poor	Bad	Moderate	Moderate	Moderate	Bad
Status Objective	Moderate by 2027	Good by 2027	Moderate by 2015	Good by 2015	Good by 2015	Moderate by 2015
Biological Quality Elements	Poor	Bad	Moderate	Moderate	Moderate	Bad
Physico-chemical Quality Elements	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Hydromorphological Quality Elements	Not high	Not high	Not high	Not high	Not high	Not high

- 10A.2.108 Within the Humber and Anglian RBDs the Section 4 passes through several management catchments. These water body catchments are not designated as artificial or heavily modified. The majority are only at Bad, Poor or Moderate Ecological Status due to biological or physico-chemical quality elements being classed as less than Good.
- 10A.2.109 The reasons for not achieving good ecological status are shared by many of the water bodies and include the risk of pollution from rural areas and from wastewater discharges. All water bodies share a chemical status of 'fail' due to exceedance of priority hazardous substances, in particular mercury and its compounds, as well as PBDE. However, these are chemical substances that are unlikely to be introduced by any phases of the Project.

Hydromorphology

- 10A.2.110 The WER water bodies in Section 4 are not designated as artificial or as heavily modified water bodies. Walkover surveys have been undertaken to inform subsequent stages of the assessment and the ES and will allow a more detailed classification of the physical form and function of watercourses that may be impacted by the Project. A summary of the watercourses visited in the Study Area is provided in **Appendix 10D Surface Water Environment Walkover Summary**.

Water Resources, Abstractions and Discharges

Protected Areas

- 10A.2.111 There is one DrWPA in Section 4. DrWPA are locations identified by the WER where raw water is abstracted for human consumption (Ref 10A.21). The DrWPA is Welland - conf Langton Bk to conf Gwash (SWSGZ1005) and is at risk from pesticides, its location is shown in **Figure 10.1 Surface water receptors and their attributes**. Due to the nature of the Project, pesticide levels are unlikely to be affected.
- 10A.2.112 There is one surface water Drinking Water Safeguard Zone in Section 4, this is shown on **Figure 10.1 Surface water receptors and their attributes** and is the River Welland upstream of Tinwell (SWSGZ1005). The main risk facing the zone is from pesticides (Ref 10A.17). Due to the nature of the Project, pesticide levels are unlikely to be affected.
- 10A.2.113 The entirety of Section 4 lies within an NVZ, which are areas designated as being at risk from agricultural nitrate pollution. Due to the nature of this Project NVZs were scoped out at the scoping stage and will not be considered in this DES.

Pollution Incidents

- 10A.2.114 The Environment Agency's publicly accessible data from the Government Data portal on pollution incidents and a data set received from the Environment Agency from a freedom of information request for pollution incidents for the period 2002-2025 have been interrogated (Ref 10A.22). Neither source highlighted any pollution incidents within Section 4.

Surface Water Abstractions

- 10A.2.115 Within the Study Area there are several Abstraction Licensing Strategies including the following:

- The Welland Catchment Abstraction Licensing Strategy (Ref 10A.24) shows the water resource available at least 30% of the time; and
- The Soar Abstraction Licensing Strategy (Ref 10A.26) shows the water resource available at least 95% of the time.

10A.2.116 There are no surface water abstractions within Section 4, on the basis of data provided by the Environment Agency.

Private Water Supplies

10A.2.117 Following review of a data request to Harborough Council, there are two PWS within the Study Area of Section 4, details of which are in **Table 10A.21**. Both PWS are abstracted from local spring and they will be assessed in **Chapter 11: Geology and Hydrogeology**.

Table 10A.21 Summary of PWS in Section 4 (Data from Harborough Council)

Permit Number	Assumed NGR	Distance to Order Limits
12/0001/Spring	SP 73952 98642	340m
12/00004/Spring	SK 73870 06741	430m

Water Activity Permits

10A.2.118 Information on consented discharges was obtained from the Environment Agency through a freedom of information request (October 2025). There are no consented discharges within the draft Order Limits, however, there are five within the wider Study Area of Section 4, they are summarised in **Table 10A.22**. Their locations are shown in **Figure 10.1 Surface water receptors and their attributes**.

Table 10A.22 Consented discharges in Section 4 (Data obtained from Environment Agency data request)

Figure Code	Permit Number	Long Name	National Grid Reference	Start Date	Discharge Type	Receiving Water
D2	AW5NF538B	Skeffington STW	SK7450002100	21/10/1985	WwTW/Sewage Treatment Works (water company)	UN 22
D3	AW5NF425	Glooston Water Recycling Centre	SP7452095560	29/09/2020	WwTW/Sewage Treatment Works (water company)	Glooston Arm
D5	AWN NF10486	Goadby STW	SP7484098650	19/07/1995	WwTW/Sewage Treatment Works (water company)	STB 11
D15	PRNNF12489	Noseley Hall	SP7412098740	19/09/2000	WwTW (not water co) (not STP at a private premises)	STB 10
D19	EPRCB3551TE	Stone Walls	SK7349905343	09/05/2024	Domestic property (single) (incl farm house)	Unknown

Water Quality

- 10A.2.119 Within the Study Area of Section 4 there are four water quality archive monitoring stations (Ref 10A.16), with a further five stations within 1 km of the draft Order Limits. Relevant data will be used to inform the baseline at the ES stage of assessment. The evaluation of water feature importance does not rely on water quality at any given time or period but reflects the scale, holistic value and sensitivity of a feature. However, relevant data will be used to inform the baseline at the ES stage of assessment.

Ecological Potential of Water Features

- 10A.2.120 There are no statutory or non-statutory designated ecological sites within Section 4 which have been deemed hydrologically important or have an active flow path. All designated sites located downstream of the Project were scoped out at the Scoping Stage and as such will not be considered in this DES. Additionally, within or downstream of the Study Area there are no known chalk rivers (Ref 10A.4).
- 10A.2.121 Ecological survey data will be used to further inform the determination of importance classification for each surface water receptor for the ES. Different types and levels of fish population, or the presence of relevant aquatic/semi-aquatic (e.g. water vole, otter) protected species, are relevant to the overall importance of a surface water feature.

Section 5 - Northamptonshire

Climate

- 10A.2.122 The climate of Section 5 is similar to that of Section 1 and is therefore not described separately; reference should be made to Section 10A.2 (Section 1: Climate).

Topography and Land Use

- 10A.2.123 Topography within Section 5 remains at approximately 100 m, with slight undulations between 90 to 145 m. The Project would cross the River Nene at the south of the section at approximately 50 m above sea level.
- 10A.2.124 The general land use is typical for lowland areas in England, consisting predominantly of arable farmland, pockets of pastureland, some urban areas, and clusters of small woodlands. Main towns and villages either within or near the Study Area include Market Harborough and Wellingborough.

Geology

- 10A.2.125 Section 5 mainly covers three rock formations, the Great Oolite Group, the Inferior Oolite Group and the Lias Group. This group consists mainly of mudstone, siltstone, sandstone and limestone, with some argillaceous rock in the Great Oolite Group (Ref 10A.3).
- 10A.2.126 This section covers Principal, Secondary A, Secondary B, Secondary (Undifferentiated) and Unproductive aquifers. The most prevalent designations within Section 5 are Principal, Secondary A and Unproductive. Principal aquifer status appears in areas around Wellingborough, Orillingbury and Earls Barton (Ref 10A.4). Each type of aquifer is defined as described in the Baseline of Section 1.

Surface Water Features

- 10A.2.127 Section 5 is located within the Anglian RBD (Ref 10A.18) and within the Management Catchments of Welland and Nene.
- 10A.2.128 As discussed in the Surface Water Features section of Section 1 there are a large number of watercourses within the Study Area, all of which have been identified and labelled according to a desk based study. The full watercourse list is provided in **Annex 1** and **Annex 2**.
- 10A.2.129 **Table 10A.23** (Ref 10A.15) lists and summarises pertinent information on the surface water features within Section 5 as shown in **Figure 10.1 Surface water receptors and their attributes**, **Figure 10.2 Fluvial flood risk**, **Figure 10.3 Surface water flood risk**, and **Figure 10.4 WER surface water body catchments**.

Table 10A.23 Surface water features in Section 5 (Ref 10A.15)

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
Welland - Upper	Unnamed trib of the River Welland (RWE 8)	-	Crossed by reconductored overhead line, flows west	Ordinary
	Unnamed trib of trib of the River Welland (RWE 9)	-	Flows 400m east of the reconductored overhead line, flows southwest	Ordinary
	Unnamed trib of the River Welland (RWE 11)	-	Crossed by reconductored overhead line, flows northwest	Ordinary
	Dingley Brook	-	Crossed by reconductored overhead line, flows east	Ordinary
	River Jordan	GB105031045600	Crossed twice by reconductored overhead line, flows northwest	Main
	Unnamed drain, trib of River Jordan (RJ 1)	-	Crossed by reconductored overhead line, flows southwest	Ordinary
	Unnamed drain, trib of River Jordan (RJ 2)	-	Flows 215m west of the reconductored overhead line, flows southwest	Ordinary
	Unnamed drain, trib of River Jordan (RJ 3)	-	Crossed by reconductored overhead line, flows southwest	Ordinary
	Unnamed drain, trib of River Jordan (RJ 4)	-	Flows 320m west of the reconductored overhead line, flows east	Ordinary
	Unnamed drain, trib of River Jordan (RJ 5)	-	Flows 80m west of the reconductored overhead line, flows north	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of River Jordan (RJ 6)	-	Crossed by reconducted overhead line, flows north	Ordinary
	Unnamed trib of River Jordan (RJ 7)	-	Flows 550m east of the reconducted overhead line, flows northwest	Ordinary
	Unnamed trib of trib of River Jordan (RJ 8)	-	Flows 90m east of the reconducted overhead line, flows north	Ordinary
	Unnamed drain, trib of River Jordan (RJ 9)	-	Flows 320m east of the reconducted overhead line, flows northeast	Ordinary
	Unnamed drain, trib of River Jordan (RJ 10)	-	Flows 340m eat of the reconducted overhead line, flows northeast	Ordinary
	Unnamed drains in the Welland-Upper Catchment	-	Within Study Area, multiple crossed by reconducted overhead line and within 100 m of towers	Ordinary
Ise	Ise - Upper	GB105032045200	Passes through Study Area, flows east	Main
	Unnamed drain, trib of River Ise (RI 1)	-	Flows 270m west of the reconducted overhead line, flows south	Ordinary
	Unnamed drain, trib of River Ise (R1 2)	-	Flows 240m west of the reconducted overhead line, flows west	Ordinary
	Unnamed trib of the River Ise (RI 3)	-	Flows 55m west of the reconducted overhead line, flows northwest	Ordinary
	Unnamed trib of the River Ise (RI 4)	-	Flows 540m west of the reconducted overhead line, flows northwest	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Slade Brook	GB105032045170	Passes through Study Area, flows east	Ordinary into Main
	Unnamed trib of Slade Brook (SLB 1)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed drain, trib of SLB 1 (SLB 2)	-	Flows 200m west of the reconducted overhead line, flows southeast	Ordinary
	Unnamed trib of Slade Brook (SLB 3)	-	Crossed by reconducted overhead line, flows southeast	Ordinary
	Unnamed drain, trib of SLB 3 (SLB 4)	-	Flows 350m east of the reconducted overhead line, flows southeast	Ordinary
	Loddington Arms (Ise)	GB105032045150	Passes through Study Area, flows east	Ordinary
	Unnamed trib of Loddington Arm (Ise) (LA 1)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed trib of Loddington Arm (Ise) (LA 2)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed trib of Loddington Arm (Ise) (LA 3)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed trib of Loddington Arm (Ise) (LA 4)	-	Flows 230m west of the reconducted overhead line, flows southeast	Ordinary
	Cransley Brook		Crossed by reconducted overhead line, flows east	Ordinary

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
Brampton Branch	Pitsford Arm of the Brampton Branch	GB105032045470	Flows southwest, does not interact with Study Area (1km west of Study Area)	Main
Ise	Pytchley Brook	GB105032045110	Passes through Study Area, flows north east	Ordinary
	Unnamed trib of Pytchley Brook (PB 1)	-	Crossed by reconducted overhead line, flows east	Ordinary
	Unnamed trib of Pytchley Brook (PB 2)	-	Crossed by reconducted overhead line, flows southeast	Ordinary
	Unnamed drain, trib of trib of Pytchley Brook (PB 3)	-	Flows 350m west of the reconducted overhead line, flows northeast	Ordinary
	Hardwick Brook	GB105032045100	Passes through Study Area, flows north east	Ordinary
	Unnamed trib of Hardwick Brook (HDB 1)	-	Flows 50m east of the reconducted overhead line, flows east	Ordinary
	Unnamed trib of Hardwick Brook (HDB 2)	-	Flows 60m west of the reconducted overhead line, flows east	Ordinary
	Ise - Lower	GB105032045140	Flows south, does not interact with Study Area. (3.1 km east of Study Area)	Main
	Unnamed trib of River Ise (RI 5)	-	Flows 450m east of the reconducted overhead line, flows northeast	Ordinary
	Harrowden Brook (Nene)	GB105032045080	Flows east, does not interact with Study Area. (25m east of Study Area)	Ordinary into Main

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed drain, trib of Harrowden Brook (HWB 1)	-	Flows 60m east of the reconductored overhead line, flows east	Ordinary
	Swanspool Brook	GB105032045070	Passes through Study Area, flows north east	Main
	Unnamed trib of Swanspool Brook (SWB 1)	-	Flows 65m east of the reconductored overhead line, flows southeast	Ordinary
	Unnamed trib of Swanspool Brook (SWB 2)	-	Flows 100m west of the reconductored overhead line, flows south	Ordinary
	Unnamed drains in the River Ise Catchment	-	Within Study Area, multiple crossed by reconductored overhead line and within 100 m of towers	Ordinary
Nene Middle	Sywell Brook	GB105032045430	Flows south, does not interact with Study Area (1.6km west of Study Area)	Main
	Nene - conf Brampton Branch to conf Ise	GB105032045050	Passes through Study Area, flows north east	Main
	Unnamed drain, trib of the River Nene (RN 1)	-	Flows 120m east of the reconductored overhead line, flows southeast and then northeast	Ordinary
	Unnamed drain, trib of the River Nene (RN 2)	-	Flows 150m west of the overhead line, flows northeast	Ordinary
	Grendon Brook	GB105032045330	Passes through Study Area, flows north east	Main

Operational Catchment	Water Body	ID (Only for WER Waterbodies)	Relevance	Main River or Ordinary Watercourse
	Unnamed trib of Grendon Brook, from one of Grendon Lakes (GRB 1)	-	Flows 360m east of the reconducted overhead line, flows northeast	Ordinary
	Castle Ashby Arm (Grendon Brook)	GB105032045030	Flows northeast, does not interact with Study Area (120m southeast of Study Area)	Main
	Grendon Lakes	N/A	In Study Area.	N/A
	Trib of Grendon Lakes (GL 1)	-	Crossed by reconducted overhead line, flows northeast	Main
	Trib of trib of Grendon Lakes (GL 2)	-	Crossed by reconducted overhead line, flows north	Ordinary
	Unnamed drains of the Nene – Middle Catchment	-	Within Study Area, multiple crossed by reconducted overhead line and within 100 m of towers	Ordinary

10A.2.130 There are no flow gauging stations within the Study Area. However, there are flow gauging stations located in the vicinity either upstream or downstream of watercourses within Section 5. These three stations are summarised in **Table 10A.24** (Ref 10A.9) with their locations shown on **Figure 10.1 Surface water receptors and their attributes**.

Table 10A.24 Summary of river flows in Section 5 (Ref 10A.9)

Gauge Ref, Name and NGR	Watercourse	Catchment Area (km ²)	Mean Flow (m ³ /s)	Q10* (m ³ /s)	Q95^ (m ³ /s)	BFI+	Record Period
32007, Nene/Brampton at St Andrews Total, SP749613	Nene/Brampton	232.8	1.147	2.373	0.224	0.57	1939-2023
32019, Slade Brook at Kettering, SP872763	Slade Brook	58.3	0.357	0.75	0.058	0.58	1970-2023
32004, Ise Brook at Harrowden, SP899712	Ise Brook	194	1.362	3.02	0.178	0.52	1943-2023

*Q10: the flow that is equalled or exceeded 10% of the time – an index of high flow.

^Q95: the flow that is equalled or exceeded 95% of the time – an index of low flow.

+BFI: the BFI is a measure of the proportion of the river runoff that is derived from stored sources; the more permeable the rock, superficial deposits and soils in a catchment, the higher the baseflow and the more sustained the river's flow during periods of dry weather. Thus, the BFI is an effective means of indexing catchment geology.

10A.2.131 Based on the summary of the flow gauging stations in **Table 10A.24**, noting that these are a distance upstream or downstream of the Study Area, the majority of the catchments are considered to have a moderate BFI, meaning that baseflow is moderately important to sustaining flow indicating a mixed geology of more and less permeable bedrock, superficial deposits and soils. These watercourses have a balanced dependence on surface water runoff and baseflow and are likely to be affected by periods of dry weather, however a level of flow would be maintained.

Water Environment Regulation Classification

10A.2.132 A full summary of WER classifications for relevant water bodies in Section 5 is provided in **Table 10A.25** and **Table 10A.26** (Ref 10A.15).

Table 10A.25 WER summary for surface water bodies in Section 5 within the Ise Operational Catchment (Ref 10A.15)

WER Parameter	Water Body and Summary							
Water Body ID	GB105032045200	GB105032045170	GB105032045150	GB105032045110	GB105032045100	GB105032045140	GB105032045080	GB105032045070
Water Body Name	Ise - Upper	Slade Brook	Loddington Arm (Ise)	Pytchley Brook	Hardwick Brook	Ise - Lower	Harrowden Brook (Nene)	Swanspool Brook
Water Body Type	River	River	River	River	River	River	River	River
Water Body Area (km ²)	86.5	33.6	26.9	11.7	13.0	34.5	10.0	20.6
Water Body Length (km)	38.9	16.2	5.0	5.2	6.0	12.0	5.4	5.7
Hydromorphological designation	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified
Overall Ecological Status/potential	Moderate	Moderate	Moderate	Moderate	Poor	Poor	Bad	Moderate
Status Objective	Good by 2027	Good by 2015	Moderate by 2015	Good by 2027	Good by 2027	Good by 2027	Good by 2027	Good by 2027
Biological Quality Elements	Good	Moderate	High	Moderate	Poor	Poor	Bad	Moderate
Physico-chemical Quality Elements	Moderate	Good	Moderate	Moderate	Moderate	Moderate	Good	Good
Hydromorphological Quality Elements	Not high	Not high	Not high	Not high	Not high	Not high	Not high	Not high

Table 10A.26 WER summary for surface water bodies in Section 5 within the Nene Middle and Brampton Branch Operational Catchments (Ref 10A.15)

WER Parameter		Status/Summary			
Water Body ID	GB105032045470	GB105032045430	GB105032045050	GB105032045330	GB105032045030
Water Body Name	Pitsford Arm of the Brampton Branch	Sywell Brook	Nene - conf Brampton Branch to conf Ise	Grendon Brook	Castle Asby Arm (Grendon Brook)
Water Body Type	River	River	River	River	River
Water Body Area (km ²)	53.3	16.6	66.4	17.8	13.5
Water Body Length (km)	7.0	5.6	20.7	4.4	6.2
Hydromorphological designation	Heavily modified	Not designated artificial or heavily modified	Heavily modified	Not designated artificial or heavily modified	Not designated artificial or heavily modified
Overall Ecological Status/potential	Good	Poor	Moderate	Moderate	Poor
Status Objective	Good by 2015	Good by 2027	Moderate by 2015	Poor by 2015	Good by 2027
Biological Quality Elements	Moderate	Poor	Poor	Good	Poor
Physico-chemical Quality Elements	Good	High	Moderate	Moderate	Moderate
Hydromorphological Quality Elements	Not monitored Cycle 3 (Not high Cycle 2)	Not high	Not high	Not high	Not high

- 10A.2.133 Within the Humber and Anglian RBDs the Section 5 passes through several management catchments. These water body catchments are classed as either not designated as artificial or heavily modified, or heavily modified. The majority are only at Bad, Poor or Moderate Ecological Status due to biological or physico-chemical quality elements being classed as less than Good.
- 10A.2.134 The reasons for not achieving good ecological status are shared by many of the water bodies and include the risk of pollution from rural areas and from wastewater discharges. All water bodies share a chemical status of 'fail' due to exceedance of priority hazardous substances, in particular mercury and its compounds, as well as PBDEs. However, these are chemical substances that are unlikely to be introduced by any phases of the Project.

Hydromorphology

- 10A.2.135 The majority of WER water bodies in Section 5 are not designated as artificial or as heavily modified water bodies. Walkover surveys have been undertaken to inform subsequent stages of the assessment and the ES and will allow a more detailed classification of the physical form and function of watercourses that may be impacted by the Project. A summary of the watercourses visited in the Study Area is provided in **Appendix 10D Surface Water Environment Walkover Summary**.

Water Resources, Abstractions and Discharges

Protected Areas

- 10A.2.136 There are two surface water Drinking Water safeguard Zones in Section 5, these are shown on **Figure 10.1 Surface water receptors and their attributes** and include:
- River Nene upstream of Wansford (SWSGZ1006); and
 - Pitsford Natural Catchment (SWSGZ1008).
- 10A.2.137 The main risk facing the two zones is from pesticides (Ref 10A.17). Due to the nature of the Project, pesticide levels are unlikely to be affected.
- 10A.2.138 There are no DrWPA in Section 5 (Ref 10A.4).
- 10A.2.139 The entirety of Section 5 lies within an NVZ, which are areas designated as being at risk from agricultural nitrate pollution. Due to the nature of this Project NVZs were scoped out at the scoping stage and will not be considered in this DES.

Pollution Incidents

- 10A.2.140 The Environment Agency's publicly accessible data from the Government Data portal on pollution incidents has been interrogated (Ref 10A.22). Pollution incidents to water are classified as category 1 (serious impact) through to category 4 (no impact). There have been two category 2 incidents reported in the Study Area of Section 5 in the past 10 years. Details of which are shown in **Table 10A.27** and the locations of which are shown in **Figure 10.1 Surface water receptors and their attributes**. No information was available regarding the causation or pollutant involved in the incidents. No category 1 events were reported in the same timeframe.

Table 10A.27 Pollution Incidents within Section 5 (2015-2025) (Ref 10A.22)

Notification Date	Figure ID	Location	Water Category	Proximity to Scheme	NGR	Receiving Waterbody
21/08/2021	P2	Wooden House Farm	2 (Significant)	Within draft Order Limits, Section 5	SP 76653 82997	Unknown
06/03/2017	P3	Park Farm Industrial Estate	2 (Significant)	360 m east, Section 5	SP 86306 68234	Unknown

10A.2.141 Information on pollution incidents for the period 2002-2025 has also been obtained from the Environment Agency through a freedom of information request. No incidents lie within the Study Area of the Project according to this data.

10A.2.142 There is an apparent discrepancy between these two data sets as the publicly available 'Environmental Pollution Incidents (Category 1 and 2)' data contains category 2 pollution incidents which are within the Study Area, while the list obtained directly from the Environment Agency through a data request does not contain these incidents. Currently, the reason for this difference is unknown.

Surface Water Abstractions

10A.2.143 Within the Study Area there are several Abstraction Licensing Strategies including the following:

- The Nene Catchment Abstraction Licensing Strategy (Ref 10A.23) shows the water resource available at least 30% of the time; and
- The Welland Catchment Abstraction Licensing Strategy (Ref 10A.24) shows the water resource available at least 30% of the time.

10A.2.144 There are no surface water abstractions within Section 5, on the basis of data provided by the Environment Agency.

Private Water Supplies

10A.2.145 Following review of a data request to North Northamptonshire Council, there are no PWS within this council boundary within the Study Area or Section 5. Information has also been requested from West Northamptonshire Council and is currently outstanding. This information will be incorporated into the assessment at ES stage.

Water Activity Permits

10A.2.146 Information on consented discharges was obtained from the Environment Agency through a freedom of information request (October 2025). There are no consented discharges within the draft Order Limits, however, there are six within the wider Study Area of Section 5, they are summarised in **Table 10A.28**. Their locations are shown in **Figure 10.1 Surface water features and their attributes**.

Table 10A.28 Consented discharges in Section 5 (Data obtained from Environment Agency data request)

Figure Code	Permit Number	Long Name	National Grid Reference	Start Date	Discharge Type	Receiving Water
D1	PR5NF291	Grendon SubStation	SP8697861218	24/06/1965	Substation/Electricity/Gas/Air Conditioning Supply	Trib of River Nene (Unknown which)
D4	AW5NF174	Harrington STW	SP7770081100	11/08/1984	WwTW/Sewage Treatment Works (water company)	River Isle
D6	AW5NF739A	Mkt Harborough Water Recycling Cntr	SP7588288865	22/12/2024	WwTW/Sewage Treatment Works (water company)	River Welland
D7	AW5NF757	Braybrooke Water Recycling Centre	SP7580084500	09/10/2015	WwTW/Sewage Treatment Works (water company)	River Welland
D10	AW5NF1788	Braybrooke Sps	SP7630084400	04/03/2022	Pumping Station on Sewerage Network (water company)	River Welland
D20	EPRPB3854GL	Braybrooke Farm	SP7567785133	11/04/2025	Making of Beverages/Breweries/Soft Drinks	River Jordan

Water Quality

10A.2.147 Within the Study Area of Section 5 there are two water quality archive monitoring stations (Ref 10A.16), with a further four stations within 1 km of the draft Order Limits. Relevant data will be used to inform the baseline at the ES stage of assessment. The evaluation of water feature importance does not rely on water quality at any given time or period but reflects the scale, holistic value and sensitivity of a feature. However, relevant data will be used to inform the baseline at the ES stage of assessment.

Ecological Potential of Water Features

10A.2.148 There are two statutory and non-statutory designated ecological sites within the Study Area and draft Order Limits of Section 5. Both of which are deemed to be hydrologically important or have an active flow path. A summary of these two sites is given in **Table 10A.29** (Ref 10A.27). Those identified include Ramsar sites and Special Protection Areas (SPA), which are internationally designated, and Sites of Special Scientific Interest (SSSI) which are nationally designated. All other designated sites located outside of the Study Area and those deemed not hydrologically important were scoped out at the Scoping Stage and as such will not be considered in this DES. Additionally, there are no designated sites downstream of the Project which need to be considered.

10A.2.149 Within or downstream of Section 5 there are no known chalk rivers (Ref 10A.4).

Table 10A.29 Summary of all statutory and non-statutory designated ecological sites in and downstream of Section 5 (Ref 10A.27)

Site Name, SSSI ID	Designation type	Approx. NGR and Location relative to Project	Main Habitat and/or Reason for Designation	Hydrological Importance or flow path between site and Scoping Boundary
Birch Spinney and Mawsley Marsh, 1002749	SSSI	SP 809 766, within draft Order Limits and Study Area	Lowland wetland including basin fen, valley fen, floodplain fen, waterfringe fen, spring/flush fen and raised bog lagg, lowland mixed deciduous woodland, and lowland neutral grassland	Yes , Unnamed watercourse flows through SSSI and draft Order Limits into Cransley Reservoir. This SSSI will be a factor of the importance of this watercourse.
Upper Nene Valley Gravel Pits SSSI, 1082789	SSSI, SPA, Ramsar	SP 868 620, within draft Order Limits and Study Area	Standing open water and canals, and >20,000 non-breeding waterbirds	Yes , SSSI contains a series of lakes within the draft Order Limits and Study Area and the downstream area of the River Nene corridor.

10A.2.150 Ecological survey data will be used to further inform the determination of importance classification for each surface water receptor for the ES. Different types and levels of

fish population, or the presence of relevant aquatic/semi-aquatic (e.g. water vole, otter) protected species, are relevant to the overall importance of a surface water feature.

10A.3 Pathway Assessment

- 10A.3.17 As a part of this DES, and in keeping with the source-pathway-receptor approach, an initial pathway assessment has been undertaken to identify those water features that are not considered to be impacted directly or indirectly by the Project. At this stage any water feature within 100 m of any works such as a new tower location or substation, or that are crossed by the overhead line or temporary haul roads, have been considered to be potentially at risk. This is due to possible run-off risks from construction works and the potential for scaffolding or other equipment within or over the watercourse while installing or reconductoring the overhead line.
- 10A.3.18 A significant portion of the water features identified meet these requirements and have been taken forward to the next stage where an importance grade has been attributed to each water body catchment. These water features have been listed in **Annex 1**. For those water features which have been identified within the 500 m Study Area but do not meet the requirements described above are not considered to be at risk as there is no impact pathway. These water features have been listed in **Annex 2**. The exception is for watercourses downstream of a watercourse that does have a possible impact pathway. These watercourses may be impacted indirectly, and they are also included in the assessment.

10A.4 Importance of Receptors

- 10A.4.17 The importance of any scoped in water features is required as part of the impact assessment to determine the significance of effects.
- 10A.4.18 A catchment-based assessment has been undertaken at this stage due to the number of scoped in watercourses. All scoped in watercourses have been grouped into the WER water body catchment. The overall importance has been determined based on the highest importance value in that catchment, adopting a worse case approach. **Table 10A.30** summarises the initial importance rating of each scoped in WER water body catchment with the accompanying justification. A separate importance grade is provided for the water quality/resource value of a watercourse from the hydromorphological value, as these may not always be the same. The importance criteria is provided in Section 10.5 of **Chapter 10 Water Environment**.

Table 10A.30 Importance of receptors in the Study Area of Sections 1 to 5

Receptor(s)	Surface Water	Hydromorphology	Flood
Section 1			
Moulton River, its tributaries within Moulton River WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, no suitable Q95 value available, watercourse itself appears to be an agricultural drain, likely to have Q95 <1m³/s. Tributaries are of low importance: No WER classification and assumed very low flow as most are agricultural drains. Likely to have low aquatic flora and fauna biodiversity.	Importance: Medium Modified but potential for morphological features to be present. Tributaries are of low importance: Channels are mostly artificially straightened for drainage purposes.	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
River Welland	Importance: High WER classification as a TraC waterbody. Q95 value approximately 34 km upstream 0.897m³/s.	Importance: Medium Modified but has some sinuosity where there is the potential for morphological features to be present	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Vernatt's Drain	Importance: Medium WER classification, Q95 value approximately 20km upstream of the project 0.04m³/s on adjacent watercourse. 3 water abstractions in the catchment, all used for agricultural purposes.	Importance: Low Artificially straight through the majority of its length.	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
River Glen, its tributaries within Glen WER water body catchment	Importance: High WER classification, Q95 value approximately 20km upstream of the project 0.04m³/s. 5 water abstractions	Importance: Medium Modified but potential for morphological features to be present	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
(see Annex 1 and Annex 2)	in the catchment, all used for agricultural purposes. Tributaries are of low importance: No WER classification and assumed very low flow as most are agricultural drains. Likely to have low aquatic flora and fauna biodiversity.	Tributaries are of low importance, mostly serving a land drainage function	
South Forty Foot Drain, its tributaries within Black Sluice IDB draining to the South Forty Foot Drain WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, Q95 value of adjacent watercourse 0.002m ³ /s. 23 water abstractions in the catchment, all used for agricultural purposes. Tributaries are of low importance: No WER classification and assumed very low flow (Q95 <0.001 m ³ /s, data from flow gauge located on one tributary). Likely to have low aquatic flora and fauna biodiversity.	Importance: Low Highly modified, artificially straight channel Tributaries are of low importance: artificially straightened drainage channels	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Section 2			
South Forty Foot Drain, its tributaries within Black Sluice IDB draining to the South Forty Foot Drain WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, Q95 value of adjacent watercourse 0.002m ³ /s. 23 water abstractions in the catchment, all used for agricultural purposes. Tributaries are of low importance: No WER classification and assumed very low flow (Q95 <0.001 m ³ /s, data from flow gauge located on one tributary). Likely to have low aquatic flora and fauna biodiversity.	Importance: Low Highly modified, artificially straight channel Tributaries are of low importance: artificially straightened drainage channels	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
East Glen River, its tributaries within East Glen River WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, Q95 value 14 km downstream of Project <0.001m ³ /s. Tributaries are of low importance: No WER classification and assumed very low flow (Q95 <0.001 m ³ /s). Likely to have low aquatic flora and fauna biodiversity.	Importance: Medium Modified but potential for morphological features to be present Tributaries are of low importance: Artificially straight modified drain	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
West Glen River, its tributaries and drains within West Glen River WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, Q95 value 800m upstream of Project <0.001m ³ /s. Tributaries are of low importance: No WER classification and assumed very low flow (Q95 <0.001m ³ /s). Likely to have low aquatic flora and fauna biodiversity.	Importance: Medium Moderate sinuosity which may indicate presence of morphological features. However channel has likely been modified throughout. Tributaries are of low importance: artificially straight agricultural drainage channels.	Importance: High Areas of mapped Flood Zone 2 and 3 within the draft Study Area.
River Tham and its tributaries within The Tham WER water body catchment	Importance: Medium WER classification, Q95 flow value along different tributary of West Glen with similar catchment size and channel width is <0.001m ³ /s. Tributaries are of low importance: No WER classification and assumed very low flow (Q95 <0.001m ³ /s). Likely to have low aquatic flora and fauna biodiversity.	Importance: Medium Modified within Study Area but potential for morphological features elsewhere Tributaries are of low importance: Artificially straight channel	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
River Witham and its tributaries within Witham headwaters to	Importance: Medium WER classification, Q95 flow value 5 km downstream of Project 0.019m ³ /s.	Importance: Medium Modified to be straight in places but sinuous further upstream	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
conf Cringle BK WER water body catchment	Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.019 m3/s due to small size of channel and catchment size. No wildlife site designations.	Tributaries are of low importance: Modified, straight channel	
Grimsthorpe Park Brook	Importance: Low No WER classification and assumed very low flow (Q95 <0.001 m3/s). Likely to have low aquatic flora and fauna biodiversity.	Importance: Low	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.
Section 3			
Wymondham Brook and its unnamed tributaries within East Wymondham Brook Catchment (trib of Langham Brook) WER water body catchment (see Annex 1 and Annex 2)	Importance: Medium WER classification, as tributary of River Eye flow can be assumed to be less than 0.296 m3/s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Likely modified through Study Area but with greater sinuosity downstream Tributaries are of low importance: Artificially straight drainage channel	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.
The River Eye, the River Wreake, its tributaries and	Importance: Medium WER classification, Q95 value 40 km downstream of Project 0.296 m3/s. There	Importance: High Highly sinuous channel, likely with diverse morphological features.	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
drains within Eye from Source to Langham Brook WER water body catchment (see Annex 1 and Annex 2)	is one water abstraction in the catchment, used on agriculture. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Tributaries are of low importance: Artificially straight channel, lacking in morphological features	
Freeby Brook and its tributaries within Freeby Brook Catchment (trib of Eye) WER water body catchment	Importance: Medium WER classification, as tributary of River Eye flow can be assumed to less than 0.296m3/s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Low Artificially straight through Study Area, aligned between field boundaries Tributaries are of low importance: Artificially straight channel, aligned to field boundaries	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.
Thorpe Brook, its tributaries and drains within Thorpe Brook Catchment (trib of Eye) WER water body catchment	Importance: Medium WER classification, as tributary of River Eye flow can be assumed to be less than 0.296m3/s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Straight within Study Area but sinuous further downstream Tributaries are of low importance: Mostly artificially straight, likely serving a land drainage function	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
Scalford Brook and its tributaries within Scalford Brook Catchment (trib of Wreake) WER waterbody catchment	Importance: Medium WER classification, as tributary of River Wreake/Eye flow can be assumed to be less than 0.296 m3/s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Importance: High Highly sinuous likely with diverse morphological features Tributaries are of low importance: Straight channel, unlikely to have any notable morphological features	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Welby Brook and its tributary (within Welby Brook Catchment (trib of Wreake) WER water body catchment	Importance: Medium WER classification, as tributary of River Wreake flow can be assumed to be less than 0.296 m3/s.	Importance: Medium Channel appears to be artificially straight within the Study Area, but potential for there to be more diverse morphological features downstream	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
Austen Dyke and its tributaries within Austen Dyke Catchment (trib of Wreake) WER water body catchment	Importance: Medium WER classification, as tributary of River Wreake flow can be assumed to be less than 0.296m3/s . Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m3/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Appears to be artificially straight through the Study Area but has higher sinuosity downstream. Tributaries are of low importance: Channel is overly straight and unlikely to have diverse morphological features.	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.

Receptor(s)	Surface Water	Hydromorphology	Flood
Gaddesby Brook and Queniborough Brook, their tributaries and drains within Queniborough Brook catchment (trib of Wreake) WER water body catchment	Importance: Medium WER classification, as tributary of River Wreake flow can be assumed to be less than 0.296m ³ /s . Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: High Highly sinuous with the presence of meander cutoffs Tributaries are of low importance: channels are modified and straight	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Section 4			
Gaddesby Brook and Queniborough Brook, their tributaries and drains within Queniborough Brook catchment (trib of Wreake) WER water body catchment	Importance: Medium WER classification, as tributary of River Wreake flow can be assumed to be less than 0.296m ³ /s . Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.296 m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: High Highly sinuous with the presence of meander cutoffs Tributaries are of low importance: channels are modified and straight	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Eye Brook and its tributaries and drains within Eye Brook WER water body catchment	Importance: Medium WER classification, Q95 value approximately 17.5km downstream of Project 0.035m ³ /s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.035m ³ /s due	Importance: High Highly sinuous with the presence of morphological features such as meander cut-offs.	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.

Receptor(s)	Surface Water	Hydromorphology	Flood
	to small size of channel and catchment size. No wildlife site designations.		
Stonton Brook and its tributaries within Stonton Brook WER water body catchment	Importance: Medium WER classification, as tributary of River Welland Q95 flow can be assumed to be less than 0.135m ³ /s . Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.135m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Moderately sinuous but likely with areas which have been artificially modified. Tributaries are of low importance: small channels which appear to have been modified.	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.
River Welland and its tributaries within Welland - conf to Langton BK to conf Gwash WER water body catchment	Importance: Medium WER classification, Q95 value approximately 7.5km downstream 0.135m ³ /s.	Importance: Medium/High Modified but has some sinuosity where there is the potential for morphological features to be present	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Langton Brook	Importance: Medium WER classification, as tributary of River Welland Q95 flow can be assumed to be less than 0.135m ³ /s . Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.135m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Moderately sinuous but with areas which have been modified Tributaries are of low importance: artificially straight channels.	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
Section 5			
Unnamed tributaries of the River Welland and drains within Welland – conf Jordan to conf Langton BK WER water body catchment	Importance: Medium No WER classification, flow can be assumed to be less than 0.135m ³ /s due to small size of channel and catchment size. No wildlife site designations	Importance: Low Generally straight channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
River Jordan, its tributaries and drains within Jordan (Welland) WER water body catchment	Importance: Medium WER classification, Q95 value approximately 3.3km downstream of Project 0.003m ³ /s. Tributaries are of low importance: No WER classification, flow can be assumed to be less than 0.003m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Modified channel but with some sinuosity which may provide morphological diversity Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
River Ise and its tributary within Ise – Upper WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.179m ³ /s as flow gauge is approximately 25km downstream. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m ³ /s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Modified in places but highly sinuous through study area Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

Receptor(s)	Surface Water	Hydromorphology	Flood
Slade Brook and its tributary within Slade Brook WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.058m³/s as flow gauge is approximately 13km downstream. Tributaries are of low importance: No WER classification, flow can be assumed to be less than 0.058m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Likely has been modified and straight but has moderate sinuosity. Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
Loddington Arm (Ise) tributaries within Loddington Arm (Ise) WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.058m³/s Loddington Arm is a tributary of Slade Brook. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.058m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Low Artificially straight channel within study area Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
Pytchley Brook and its tributaries within Pytchley Brook WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.179m³/s Pytchley Brook is a tributary of River Ise. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Modified to be straight within study area but further downstream is highly sinuous which may indicate some morphological diversity Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.

Receptor(s)	Surface Water	Hydromorphology	Flood
Hardwick Brook and its tributaries within Hardwick Brook WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.179m³/s. Hardwick Brook is a tributary of River Isle. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Modified to be straight within study area but further downstream has moderate sinuosity which may indicate some morphological diversity. Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
Harrowden Brook tributary and drain within Harrowden Brook (Nene) WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.179m³/s. Harrowden Brook is a tributary of River Isle. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Likely modified but with moderate sinuosity which may introduce morphological features Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped surface water flood risk within the Study Area but limited in extent.
Swanspool Brook and its tributaries within Swanspool Brook WER water body catchment	Importance: Medium WER classification, Q95 value can be assumed to be less than 0.179m³/s. Swanspool Brook is a tributary of River Isle. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Likely modified but with moderate sinuosity which may introduce morphological features Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: Medium Areas of mapped Flood Zone 2 and 3 within the Study Area but limited in extent.

Receptor(s)	Surface Water	Hydromorphology	Flood
River Nene within Nene - conf Brampton Branch to conf lse WER water body catchment	Importance: High WER classification, Q95 value can be assumed to be between 0.28 and 2.79 m³/s (upstream and downstream values from the Project. Tributaries are of medium importance: No WER classification, flow can be assumed to be less than 0.28m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Sinuuous channel but likely has been modified in places throughout Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.
Grendon Lakes tributaries within Gendon Brook WER water body catchment	Importance: Medium WER classification, Q95 value of a similarly sized tributary of the River Nene is 0.041m³/s. Tributaries are of low importance: No WER classification, flow can be assumed to be significantly less than 0.179m³/s due to small size of channel and catchment size. No wildlife site designations.	Importance: Medium Sinuuous channel but likely has been modified in places throughout Tributaries are of low importance: generally small and straightened channels with little morphological diversity	Importance: High Areas of mapped Flood Zone 2 and 3 within the Study Area.

References

- Ref 10A.1 Met Office (2025) Location-specific long-term averages at Wittering. [Online]. Available at: <https://www.metoffice.gov.uk/research/climate/maps-and-data/location-specific-long-term-averages/gcrem3s9m> [Accessed November 2025].
- Ref 10A.2 Ordnance Survey Mapping (2025) Bing Maps [Online] Available at: <https://www.bing.com/maps?cp=52.804386%7E-0.205645&lvl=12.2&style=s> [Accessed November 2025].
- Ref 10A.3 British Geological Survey (2025) Geology Viewer [Online]. Available at: https://geologyviewer.bgs.ac.uk/?_ga=2.242096642.1894801621.1755169496-126629760.1755169496 [Accessed November 2025].
- Ref 10A.4 Department for Environment, Food and Rural Affairs (DEFRA) (2024). MAGIC Maps. [Online] Available at: <https://magic.defra.gov.uk/MagicMap.html> [Accessed November 2025].
- Ref 10A.5 Cranfield Soil and AgriFood Institute (2024) Soilscales Map [Online]. Available at <https://www.landis.org.uk/soilscales/> [Accessed November 2025].
- Ref 10A.6 DEFRA (2025) Hydrology Data Explorer. [Online] Available at: <https://environment.data.gov.uk/hydrology/explore> [Accessed November 2025].
- Ref 10A.7 Environment Agency (2019). Environment Agency Statutory Main River Map [Online]. Available at: <https://www.arcgis.com/apps/webappviewer/index.html?id=17cd53dfc524433980cc333726a56386> [Accessed November 2025].
- Ref 10A.8 UK Centre of Ecology & Hydrology Flood Estimation Handbook Web Service. [Online]. Available at: <https://fehweb.ceh.ac.uk/> [Accessed November 2025].
- Ref 10A.9 UK National River Flow Archive (2025) [Online] Available at: <https://nrfa.ceh.ac.uk/data/search> [Accessed November 2025].
- Ref 10A.10 GOV.UK (2010). Flood Map for Planning [Online]. Available at: <https://flood-map-forplanning.service.gov.uk/> [Accessed November 2025].
- Ref 10A.11 Environment Agency (2024) Long Term Flood Risk [Online]. Available at: <https://www.gov.uk/check-long-term-flood-risk> [Accessed November 2025].
- Ref 10A.12 NAFRA Dataset (2020) [Online]. Available at: <https://www.arcgis.com/home/item.html?id=f8488c24a34f4456a69abd894a2ba180> [Accessed November 2025].
- Ref 10A.13 Environment Agency Risk of Flooding from Reservoirs (2024) [Online]. Available at: <https://check-long-term-flood-risk.service.gov.uk/map> [Accessed November 2025].
- Ref 10A.14 Environment Agency Flood Defence Asset Database (2024) [Online]. Available at: <https://www.data.gov.uk/dataset/76828b72-3c9c-4700-83c7-d7c36047d322/floodmap-for-planning-rivers-and-sea-spatial-flood-defences-without-standardisedattributes> [Accessed November 2025].

- Ref 10A.15 Environment Agency (2024). Catchment data explorer database [Online]. Available at: <https://environment.data.gov.uk/catchment-planning/> [Accessed November 2025].
- Ref 10A.16 Environment Agency (2025). Water Quality Data Archive [Online]. Available at: <https://environment.data.gov.uk/water-quality/view/landing> [Accessed November 2025]
- Ref 10A.17 Environment Agency (2025) Check for Drinking Water Safeguard Zones and NVZs [Online]. Available at: <https://environment.data.gov.uk/farmers/> [Accessed November 2025].
- Ref 10A.18 Environment Agency (2025) Anglian River Basin District [Online] Available at: <https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/5> [Accessed November 2025].
- Ref 10A.19 Environment Agency (2025) Humber River Basin District [Online] Available at: <https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/4> [Accessed November 2025].
- Ref 10A.20 DEFRA. (2017) Designation of ‘main rivers’: guidance to the Environment Agency [Online] Available at: <https://www.gov.uk/government/publications/designation-of-main-rivers-guidance-to-the-environment-agency/designation-of-main-rivers-guidance-to-the-environment-agency> [Accessed November 2025].
- Ref 10A.21 Environment Agency (2025) Drinking Water Protected Areas (Surface Water) [Online] Available at: <https://www.data.gov.uk/dataset/3d136e9a-78cf-4452-824d-39d715ba5b69/drinking-water-protected-areas-surface-water> [Accessed November 2025].
- Ref 10A.22 Environment Agency (2025) Environmental Pollution Incidents (Category 1 and 2) [Online]. Available at: <https://www.data.gov.uk/dataset/c8625e18-c329-4032-b4c7-444b33af6780/environmental-pollution-incidents-category-1-and-21> [Accessed November 2025]
- Ref 10A.23 Environment Agency (2021). Nene Catchment Abstraction Licensing Strategy [Online]. Available at: <https://assets.publishing.service.gov.uk/media/606d91e28fa8f57359cf4346/CAMS-Nene-Catchment-Abstraction-Management-Strategy.pdf> [Accessed November 2025].
- Ref 10A.24 Environment Agency (2021). Welland Catchment Abstraction Licensing Strategy. [Online]. Available at: <https://assets.publishing.service.gov.uk/media/606d942fd3bf7f4017cbef03/CAMS-The-Welland-Catchment-Abstraction-Management-Strategy.pdf> [Accessed November 2025].
- Ref 10A.25 Environment Agency (2020). Witham Abstraction Management Strategy [Online]. Available at: <https://www.gov.uk/government/publications/witham-abstraction-licensing-strategy/witham-abstraction-licensing-strategy> [Accessed November 2025]
- Ref 10A.26 Environment Agency (2020). Soar Abstraction Management Strategy [Online]. Available at: https://assets.publishing.service.gov.uk/media/5f574829e90e070995ad8255/Soar_Abstraction_Licensing_Strategy.pdf [Accessed November 2025].

Ref 10A.27 Natural England (2025) Designated Sites View [Online]. Available at:
<https://designatedsites.naturalengland.org.uk/SiteSearch.aspx> [Accessed November
2025].

Annex 10A.1

Annex 1

Annex 10A.1

Annex 1

Table 10A.1.1 A table of all scoped in water bodies within the Study Area and their assigned ID.

Waterbody Catchment	Name	Section	ID
Moulton River	Drain, trib of Lord's Drain	1	S1D28
	Unnamed drain	1	S1D31
	Unnamed drain	1	S1D32
WELLAND (The Wash TraC)	River Welland	1	River Welland
Vernatt's Drain	Vernatt's Drain	1	Vernatt's Drain
Glen	Blue Gowt Drain	1	Blue Gowt Drain
	Unnamed drain	1	S1D46
	Unnamed drain	1	S1D48
	Unnamed drain	1	S1D49
	Old Sea Drain	1	Old Sea Drain
	Unnamed drain	1	S1D54
	Unnamed drain	1	S1D58
	Unnamed drain	1	S1D59
	Unnamed drain	1	S1D64
	Unnamed drain	1	S1D70

Waterbody Catchment	Name	Section	ID
	River Glen	1	River Glen
	Unnamed drain	1	S1D79
	Unnamed drain	1	S1D80
	Unnamed drain	1	S1D81
	Unnamed drain	1	S1D82
	New Drain	1	New Drain
	Unnamed drain	1	S1D95
	Unnamed drain	1	S1D96
	Unnamed drain	1	S1D97
	Unnamed drain	1	S1D98
	Unnamed drain	1	S1D99
	Unnamed drain	1	S1D100
	Unnamed drain	1	S1D101
	Unnamed drain	1	S1D102
	Unnamed drain	1	S1D103
	Unnamed drain	1	S1D104
	Unnamed drain	1	S1D105
	Unnamed drain	1	S1D106
	Unnamed drain	1	S1D107

Waterbody Catchment	Name	Section	ID
	Unnamed drain	1	S1D108
	Unnamed drain	1	S1D109
	Unnamed drain	1	S1D110
Black Sluice IDB draining to the South Forty Foot Drain	Unnamed drain	1	S1D136
	Unnamed drain	1	S1D137
	Unnamed drain	1	S1D138
	Unnamed drain	1	S1D139
	Unnamed drain	1	S1D140
	Unnamed drain	1	S1D141
	Unnamed drain	1	S1D142
	Unnamed drain	1	S1D143
	Unnamed drain	1	S1D144
	Unnamed drain	1	S1D145
	Unnamed drain	1	S1D146
	Unnamed drain	1	S1D147
	Unnamed drain	1	S1D172
	Unnamed drain	1	S1D173
	Unnamed drain	1	S1D174
	Unnamed drain	1	S1D175

Waterbody Catchment	Name	Section	ID
	Unnamed drain	1	S1D176
	Unnamed drain	1	S1D177
	Unnamed drain	1	S1D178
	Unnamed drain	1	S1D179
	Unnamed drain	1	S1D180
	Unnamed drain	1	S1D181
	Unnamed drain	1	S1D182
	Unnamed drain	1	S1D183
	Unnamed drain	1	S1D184
	South Forty Foot Drain	2	South Forty Foot Drain
	Hacconby Lode	2	Hacconby Lode
	Unnamed Drain	2	S2D1
	Unnamed Drain	2	S2D2
	Unnamed Drain	2	S2D3
	Unnamed Drain	2	S2D4
	Unnamed Drain	2	S2D5
	Unnamed Drain	2	S2D6
	Unnamed Drain	2	S2D7
	Unnamed Drain	2	S2D8

Waterbody Catchment	Name	Section	ID
	Unnamed Drain	2	S2D9
	Unnamed Drain	2	S2D10
	Car Dyke	2	Car Dyke
	Unnamed Drain	2	S2D11
	Unnamed Drain	2	S2D12
	Unnamed Drain	2	S2D13
	Unnamed Drain	2	S2D14
	Unnamed Drain	2	S2D15
	Unnamed Drain	2	S2D16
	Unnamed Drain	2	S2D17
	Unnamed Drain	2	S2D59
	Unnamed Drain	2	S2D60
	Unnamed Drain	2	S2D61
	Unnamed Drain	2	S2D62
	Unnamed Drain	2	S2D63
	Unnamed Drain	2	S2D64
	Unnamed Drain	2	S2D65
	Unnamed Drain	2	S2D66
	Unnamed Drain	2	S2D67

Waterbody Catchment	Name	Section	ID
East Glen River	Unnamed Drain	2	S2D68
	Unnamed Drain	2	S2D69
	East Glen River	2	East Glen River
Grimsthorpe Park Brook	Grimsthorpe Park Brook	2	Grimsthorpe Park Brook
East Glen River	Unnamed trib of East Glen River	2	EGR 2
	Unnamed trib of trib of East Glen River	2	EGR 3
	Unnamed trib of trib of East Glen River	2	EGR 6
West Glen Upper	West Glen River	2	West Glen River
	Unnamed Drain 3 (Honey Pot Lane)	2	UN 3
The Tham	River Tham	2	River Tham
	Unnamed trib of River Tham	2	RT 3
Witham headwaters to conf Cringle BK	River Witham	2	River Witham
	Unnamed trib of River Witham	2	RWI 1
	Unnamed trib, trib of RWI 1	2	RWI 2
	Unnamed trib, trib of RWI 2	2	RWI 3
	Unnamed trib of River Witham	2	RWI 4
Wymondham Brook Catchment (trib of Langham Brook)	Wymondham Brook, a trib of Langham Brook, a trib of River Eye	3	Wymondham Brook
	Unnamed trib of Wymondham Brook	3	WB 3

Waterbody Catchment	Name	Section	ID
Eye from Source to Langham Brook	Unnamed trib of Wymondham Brook	3	WB 6
	River Eye	3	River Eye
	Unnamed trib of River Eye	3	RE 3
	Unnamed trib of River Eye	3	RE 5
	Unnamed trib of River Eye	3	RE 6
Freeby Brook Catchment (trib of Eye)	Freeby Brook	3	Freeby Brook
	Unnamed trib of Freeby Brook	3	FB 2
	Unnamed trib of Freeby Brook	3	FB 3
	Unnamed trib of Freeby Brook	3	FB 6
Thorpe Brook Catchment (trib of Eye)	Thorpe Brook	3	Thorpe Brook
	Unnamed trib of Thorpe Brook	3	TB 1
	Unnamed trib of Thorpe Brook	3	TB 2
	Unnamed Drain 6	3	UN 6
	Unnamed Drain 7	3	UN 7
Scalford Brook Catchment (trib of Wreake)	Scalford Brook	3	Scalford Brook
	Unnamed trib of Scalford Brook	3	SCB 2
	Unnamed trib of Scalford Brook	3	SCB 4
Welby Brook Catchment (trib of Wreake)	Welby Brook	3	Welby Brook
	Unnamed trib of River Wreake	3	RWR 2

Waterbody Catchment	Name	Section	ID
Eye/Wreake from Langham Brook to Soar	Unnamed trib of River Wreake	3	RWR 7
	River Wreake	3	River Wreake
Austen Dyke Catchment (trib of Wreake)	Austen Dyke	3	Austen Dyke
	Unnamed trib of Austen Dyke	3	AD 2
	Unnamed trib of Austen Dyke	3	AD 3
	Unnamed trib of Austen Dyke	3	AD 4
Eye/Wreake from Langham Brook to Soar	Unnamed drain, trib of River Wreake vis Frisby Lakes	3	RWR 8
	Unnamed drain, trib of the River Wreake	3	RWR 10
	Unnamed drain	3	UN 10
	Unnamed trib of the River Wreake	3	RWR 11
	Unnamed drain, trib of trib of the River Wreake	3	RWR 12
	Unnamed drain	3	UN 14
	Unnamed drain, trib of trib of the River Wreake	3	RWR 15
Queniborough Brook catchment (trib of Wreake)	Gaddesby Brook	3	Gaddesby Brook
	Unnamed trib of Gaddesby Brook	3	GB 1
	Unnamed drain, trib of Gaddesby Brook	3	GB 6
	Unnamed drain, terminates in agricultural pond	3	UN 16
	Unnamed drain, trib of Gaddesby Brook	3	GB 7
	Unnamed drain, trib of trib of Gaddesby Brook	4	GB 9

Waterbody Catchment	Name	Section	ID
	Unnamed drain, trib of trib of Gaddesby Brook	4	GB 10
	Unnamed drain	4	UN 18
	Queniborough Brook	4	Queniborough Brook
	Trib of Queniborough Brook	4	QB 1
	Unnamed drain	4	UN 20
Eye Brook	Eye Brook	4	Eye Brook
	Unnamed drain , trib of Eye Brook	4	EB 4
	Unnamed drain , trib of Eye Brook	4	EB 5
	Unnamed drain , trib of Eye Brook	4	EB 7
	Unnamed drain , trib of Eye Brook	4	EB 8
	Unnamed drain , trib of Eye Brook	4	EB 9
	Unnamed drain , trib of Eye Brook	4	EB 10
	Unnamed drain, trib of trib of Eye Brook	4	EB 11
Stonton Brook	Stonton Brook	4	Stonton Brook
	Unnamed trib of Stonton Brook	4	STB 3
	Unnamed trib of trib of Stonton Brook	4	STB 4
	Unnamed trib of Stonton Brook	4	STB 8
	Unnamed trib of Stonton Brook	4	STB 9
	Unnamed trib of Stonton Brook	4	STB 10

Waterbody Catchment	Name	Section	ID
	Unnamed trib of Stonton Brook	4	STB 14
	Glooston Arm	4	Glooston Arm
	Unnamed drain, trib of Glooston Arm	4	GA 1
Welland - conf to Langton BK to conf Gwash	River Welland	4	River Welland
	Unnamed trib of trib of trib of River Welland	4	RWE 3
	Unnamed trib of the River Welland	4	RWE 5
Langton Brook	Langton Brook	4	Langton Brook
Welland - conf Jordan to conf Langton BK	Unnamed trib of the River Welland	5	RWE 8
	Unnamed trib of the River Welland	5	RWE 11
	Unnamed drain	5	UN 24
	Dingley Brook	5	Dingley Brook
Jordan (Welland)	River Jordan	5	River Jordan
	Unnamed drain, trib of River Jordan	5	RJ 1
	Unnamed drain, trib of River Jordan	5	RJ 3
	Unnamed drain, trib of River Jordan	5	RJ 5
	Unnamed trib of River Jordan	5	RJ 6
	Unnamed trib of trib of River Jordan	5	RJ 8
Ise - Upper	River Ise	5	River Ise
	Unnamed trib of the River Ise	5	RI 3

Waterbody Catchment	Name	Section	ID
Slade Brook	Slade Brook	5	Slade Brook
Slade Brook	Unnamed trib of Slade Brook	5	SLB 1
Loddington Arm (Ise)	Unnamed trib of Loddington Arm (Ise)	5	LA 1
	Unnamed trib of Loddington Arm (Ise)	5	LA 2
	Unnamed trib of Loddington Arm (Ise)	5	LA 3
	Cransley Brook	5	Cransley Brook
Slade Brook	Unnamed trib of Slade Brook	5	SLB 3
Pytchley Brook	Pytchley Brook	5	Pytchley Brook
	Unnamed trib of Pytchley Brook	5	PB 1
	Unnamed trib of Pytchley Brook	5	PB 2
Hardwick Brook	Hardwick Brook	5	Hardwick Brook
	Unnamed trib of Hardwick Brook	5	HDB 1
	Unnamed trib of Hardwick Brook	5	HDB 2
Harrowden Brook (Nene)	Unnamed drain, trib of Harrowden Brook	5	HWB 1
	Unnamed drain	5	UN 29
Swanspool Brook	Swanspool Brook	5	Swanspool Brook
	Unnamed trib of Swanspool Brook	5	SWB 1
	Unnamed trib of Swanspool Brook	5	SWB 2
Nene - conf Brampton Branch to conf Ise	River Nene	5	River Nene

Waterbody Catchment	Name	Section	ID
Grendon Brook	Trib of Grendon Lakes	5	GL 1
	Trib of trib of Grendon Lakes	5	GL2

Annex 10A.2

Annex 2

Annex 10A.2

Annex 2

Table 10A.2.1 A table of all scoped out water bodies within the Study Area and their assigned ID.

WER waterbody catchment	Waterbody	Section	Watercourse ID
Moulton River	Unnamed drain	1	S1D29
	Unnamed drain	1	S1D30
	Unnamed drain	1	S1D33
Glen	Unnamed drain	1	S1D47
	Unnamed drain	1	S1D50
	Unnamed drain	1	S1D51
	Unnamed drain	1	S1D52
	Unnamed drain	1	S1D53
	Unnamed drain	1	S1D55
	Unnamed drain	1	S1D56
	Unnamed drain	1	S1D57
	Unnamed drain	1	S1D60
	Unnamed drain	1	S1D61
	Unnamed drain	1	S1D62
	Unnamed drain	1	S1D63

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D65
	Unnamed drain	1	S1D66
	Unnamed drain	1	S1D67
	Unnamed drain	1	S1D68
	Unnamed drain	1	S1D69
	Unnamed drain	1	S1D71
	Unnamed drain	1	S1D72
	Unnamed drain	1	S1D73
	Unnamed drain	1	S1D74
	Trib of River Glen	1	RG1
	Unnamed drain	1	S1D75
	Unnamed drain	1	S1D76
	Unnamed drain	1	S1D77
	Unnamed drain	1	S1D78
	Unnamed drain	1	S1D83
	Unnamed drain	1	S1D84
	Unnamed drain	1	S1D85
	Unnamed drain	1	S1D86
	Unnamed drain	1	S1D87

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D88
	Unnamed drain	1	S1D89
	Unnamed drain	1	S1D90
	Unnamed drain	1	S1D91
	Unnamed drain	1	S1D92
	Unnamed drain	1	S1D93
	Unnamed drain	1	S1D94
	Unnamed drain	1	S1D111
	Unnamed drain	1	S1D112
	Unnamed drain	1	S1D113
	Unnamed drain	1	S1D114
	Unnamed drain	1	S1D115
	Unnamed drain	1	S1D116
	Unnamed drain	1	S1D117
	Unnamed drain	1	S1D118
	Unnamed drain	1	S1D119
	Unnamed drain	1	S1D120
	Unnamed drain	1	S1D121
	Unnamed drain	1	S1D122

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D123
	Unnamed drain	1	S1D124
	Unnamed drain	1	S1D125
	Unnamed drain	1	S1D126
	Unnamed drain	1	S1D127
	Unnamed drain	1	S1D128
	Unnamed drain	1	S1D129
	Unnamed drain	1	S1D130
	Unnamed drain	1	S1D131
	Unnamed drain	1	S1D132
	Unnamed drain	1	S1D133
	Unnamed drain	1	S1D134
	Unnamed drain	1	S1D135
Black Sluice IDB draining to the South Forty Foot Drain	Unnamed drain	1	S1D148
	Unnamed drain	1	S1D149
	Unnamed drain	1	S1D150
	Unnamed drain	1	S1D151
	Unnamed drain	1	S1D152
	Unnamed drain	1	S1D153

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D154
	Unnamed drain	1	S1D155
	Unnamed drain	1	S1D156
	Unnamed drain	1	S1D157
	Unnamed drain	1	S1D158
	Unnamed drain	1	S1D159
	Unnamed drain	1	S1D160
	Unnamed drain	1	S1D161
	Unnamed drain	1	S1D162
	Unnamed drain	1	S1D163
	Unnamed drain	1	S1D164
	Unnamed drain	1	S1D165
	Unnamed drain	1	S1D166
	Unnamed drain	1	S1D167
	Unnamed drain	1	S1D168
	Unnamed drain	1	S1D169
	Unnamed drain	1	S1D170
	Unnamed drain	1	S1D171
	Star Lode	1	Star Lode

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D185
	Unnamed drain	1	S1D186
	Unnamed drain	1	S1D187
	Unnamed drain	1	S1D188
	Higher Lode	1	Higher Lode
	Unnamed drain	1	S1D189
	Unnamed drain	1	S1D190
	Unnamed drain	1	S1D191
	Unnamed drain	1	S1D192
	Unnamed drain	1	S1D193
	Unnamed drain	1	S1D194
	Unnamed drain	1	S1D195
	Unnamed drain	1	S1D196
	Unnamed drain	1	S1D197
	Unnamed drain	1	S1D198
	Unnamed drain	1	S1D199
	Unnamed drain	1	S1D200
	Unnamed drain	1	S1D201
	Unnamed drain	1	S1D202

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	1	S1D203
	Unnamed drain	1	S1D204
	Unnamed drain	1	S1D205
	Unnamed drain	1	S1D206
	Unnamed drain	1	S1D207
	Unnamed Drain	2	S2D18
	Unnamed Drain	2	S2D19
	Unnamed Drain	2	S2D20
	Unnamed Drain	2	S2D21
	Unnamed Drain	2	S2D22
	Unnamed Drain	2	S2D23
	Unnamed Drain	2	S2D24
	Unnamed Drain	2	S2D25
	Unnamed Drain	2	S2D26
	Unnamed Drain	2	S2D27
	Unnamed Drain	2	S2D28
	Unnamed Drain	2	S2D29
	Unnamed Drain	2	S2D30
	Unnamed Drain	2	S2D31

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed Drain	2	S2D32
	Unnamed Drain	2	S2D33
	Unnamed Drain	2	S2D34
	Unnamed Drain	2	S2D35
	Unnamed Drain	2	S2D36
	Unnamed Drain	2	S2D37
	Unnamed Drain	2	S2D38
	Unnamed Drain	2	S2D39
	Unnamed Drain	2	S2D40
	Unnamed Drain	2	S2D41
	Unnamed Drain	2	S2D42
	Unnamed Drain	2	S2D43
	Unnamed Drain	2	S2D44
	Unnamed Drain	2	S2D45
	Unnamed Drain	2	S2D46
	Unnamed Drain	2	S2D47
	Unnamed Drain	2	S2D48
	Unnamed Drain	2	S2D49
	Unnamed Drain	2	S2D50

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed Drain	2	S2D51
	Unnamed Drain	2	S2D52
	Unnamed Drain	2	S2D53
	Unnamed Drain	2	S2D54
	Unnamed Drain	2	S2D55
	Unnamed Drain	2	S2D56
	Unnamed Drain	2	S2D57
	Unnamed Drain	2	S2D58
	Unnamed Drain	2	S2D70
	Unnamed Drain	2	S2D71
	Unnamed Drain	2	S2D72
	Unnamed Drain	2	S2D73
	Unnamed Drain	2	S2D74
	Unnamed Drain	2	S2D75
	Unnamed Drain	2	S2D76
East Glen River	Unnamed Drain	2	S2D77
	Unnamed Drain	2	S2D78
	Unnamed Drain	2	S2D79
	Unnamed Drain	2	S2D80

WER waterbody catchment	Waterbody	Section	Watercourse ID
Black Sluice IDB draining to the South Forty Foot Drain	Unnamed Drain	2	S2D81
	Unnamed Drain	2	S2D82
	Unnamed Drain	2	S2D83
	Unnamed Drain	2	S2D84
	Unnamed Drain	2	S2D85
	Unnamed Drain	2	S2D86
	Unnamed Drain	2	S2D87
	Unnamed Drain	2	S2D88
	Unnamed Drain	2	S2D89
	Unnamed Drain	2	S2D90
	Unnamed Drain	2	S2D91
	Unnamed Drain	2	S2D92
	Unnamed Drain	2	S2D93
	Unnamed Drain	2	S2D94
Grimsthorpe Park Brook	Unnamed trib of Grimsthorpe Park Brook	2	GPB 3
	Unnamed trib of Grimsthorpe Park Brook	2	GPB 4
East Glen River	Unnamed trib, trib of East Glen River	2	EGR 1
	Unnamed trib, trib of trib of East Glen River	2	EGR 4
	Unnamed trib, trib of East Glen River	2	EGR 5

WER waterbody catchment	Waterbody	Section	Watercourse ID
West Glen Upper	Unnamed trib of West Glen River	2	WGR 1
	Unnamed trib, trib of trib of West Glen River	2	WGR 2
	Unnamed trib of West Glen River	2	WGR 3
	Unnamed trib of West Glen River	2	WGR 4
	Unnamed Drain 1	2	UN 1
	Unnamed Drain 2	2	UN 2
	Unnamed Drain 4	2	UN 4
	Unnamed Drain 5	2	UN 5
The Tham	Unnamed trib of River Tham	2	RT 1
	Unnamed trib of River Tham	2	RT 2
Witham headwaters to conf Cringle BK	Unnamed trib of River Witham	2	RWI 5
	Unnamed trib, trib of trib of River Witham	2	RWI 6
	Unnamed trib, trib of trib of River Witham	2	RWI 7
Wymondham Brook Catchment (trib of Langham Brook)	Unnamed trib of Wymondham Brook	3	WB 1
	Unnamed trib of Wymondham Brook	3	WB 2
	Unnamed trib of Wymondham Brook	3	WB 4
	Unnamed trib of Wymondham Brook	3	WB 5
	Unnamed trib of Wymondham Brook	3	WB 7
Eye from Source to Langham Brook	Unnamed trib of River Eye	3	RE 4

WER waterbody catchment	Waterbody	Section	Watercourse ID
Freeby Brook Catchment (trib of Eye)	Unnamed trib of Freeby Brook	3	FB 1
	Unnamed trib of Freeby Brook	3	FB 4
	Unnamed trib of Freeby Brook	3	FB 5
Thorpe Brook Catchment (trib of Eye)	Unnamed trib of Thorpe Brook	3	TB 3
Scalford Brook Catchment (trib of Wreake)	Unnamed trib of Scalford Brook	3	SCB 1
	Unnamed trib of Scalford Brook	3	SCB 3
	Unnamed trib of Scalford Brook	3	SCB 5
	Unnamed trib of Scalford Brook	3	SCB 6
Welby Brook Catchment (trib of Wreake)	Unnamed drain, trib of trib of River Wreake	3	RWR 3
	Unnamed drain, trib of trib of River Wreake	3	RWR 4
	Unnamed drain, trib of trib of River Wreake	3	RWR 5
	Unnamed drain, trib of trib of River Wreake	3	RWR 6
Eye/Wreake from Langham Brook to Soar	Unnamed trib of River Eye	3	RE 1
	Unnamed trib of River Eye	3	RE 2
Austen Dyke Catchment (trib of Wreake)	Unnamed trib of Austen Dyke	3	AD 1
Eye/Wreake from Langham Brook to Soar	Unnamed trib of River Wreake	3	RWR 1
	Unnamed Drain	3	UN 8
	Unnamed drain, trib of River Wreake vis Frisby Lakes	3	RWR 9
	Unnamed drain	3	UN 9

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	3	UN 11
	Unnamed drain	3	UN 12
	Unnamed drain	3	UN 13
	Unnamed drain, trib of trib of the River Wreake	3	RWR 13
	Unnamed drain, trib of trib of trib of River Wreake	3	RWR 14
	Unnamed drain, trib of trib of the River Wreake	3	RWR 16
Queniborough Brook catchment (trib of Wreake)	Unnamed drain	3	UN 15
	Unnamed drain, trib of trib of Gaddesby Brook	3	GB 2
	Unnamed drain, trib of trib of Gaddesby Brook	3	GB 3
	Unnamed drain, trib of Gaddesby Brook	3	GB 4
	Unnamed drain, trib of Gaddesby Brook	3	GB 5
	Unnamed drain	3	UN 17
	Unnamed river, trib of Gaddesby Brook	4	GB 8
	Unnamed drain	4	UN 19
Eye Brook	Unnamed drain , trib of Eye Brook	4	EB 1
	Unnamed drain , trib of Eye Brook	4	EB 2
	Unnamed drain , trib of Eye Brook	4	EB 3
	Unnamed drain , trib of Eye Brook	4	EB 6
Stonton Brook	Unnamed drain	4	UN 21

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed drain	4	UN 22
	Unnamed trib of Stonton Brook	4	STB 1
	Unnamed trib of Stonton Brook	4	STB 2
	Unnamed trib of Stonton Brook	4	STB 5
	Unnamed trib of trib of Stonton Brook	4	STB 6
	Unnamed trib of Stonton Brook	4	STB 7
	Unnamed trib of Stonton Brook	4	STB 11
	Unnamed trib of Stonton Brook	4	STB 12
	Unnamed trib of Stonton Brook	4	STB 13
	Unnamed drain, connecting a series of ponds	4	UN 23
	Unnamed drain, trib of Glooston Arm	4	GA 2
Welland - conf to Langton BK to conf Gwash	Unnamed trib of the River Welland (Main River)	4	RWE 1
	Unnamed trib of trib of River Welland	4	RWE 2
	Unnamed trib of trib of River Welland	4	RWE 4
Langton Brook	Unnamed trib of Langton Brook	4	LB 1
	Unnamed trib of Langton Brook	4	LB 2
	Unnamed trib of Langton Brook	4	LB 3
Welland - conf Jordan to conf Langton BK	Unnamed trib of the River Welland	4	RWE 6
	Unnamed trib of the River Welland	4	RWE 7

WER waterbody catchment	Waterbody	Section	Watercourse ID
	Unnamed trib of trib of the River Welland	5	RWE 9
	Unnamed trib of the River Welland	4	RWE 10
	Unnamed drain	5	UN 25
Jordan (Welland)	Unnamed drain, trib of River Jordan	5	RJ 2
	Unnamed drain, trib of River Jordan	5	RJ 4
	Unnamed trib of River Jordan	5	RJ 7
	Unnamed drain, trib of River Jordan	5	RJ 9
	Unnamed drain, trib of River Jordan	5	RJ 10
Ise - Upper	Unnamed drain	5	UN 26
	Unnamed drain, trib of River Ise	5	RI 1
	Unnamed drain, trib of River Ise	5	RI 2
	Unnamed trib of the River Ise	5	RI 4
Slade Brook	Unnamed drain, trib of trib of Slade Brook	5	SLB 2
Loddington Arm (Ise)	Unnamed trib of Loddington Arm (Ise)	5	LA 4
	Unnamed drain	5	UN 27
Slade Brook	Unnamed drain, trib of trib of Slade Brook	5	SLB 4
Pytchley Brook	Unnamed drain, trib of trib of Pytchley Brook	5	PB 3
Ise - Lower	Unnamed trib of River Ise	5	RI 5
Harrowden Brook (Nene)	Harrowden Brook	5	Harrowden Brook

WER waterbody catchment	Waterbody	Section	Watercourse ID
Swanspool Brook	Unnamed drain	5	UN 28
Nene - conf Brampton Branch to conf Ise	Unnamed drain	5	UN 30
	Unnamed drain	5	UN 31
	Unnamed drain, trib of the River Nene	5	RN 1
	Unnamed drain, trib of the River Nene	5	RN 2
Grendon Brook	Grendon Brook	5	Grendon Brook
	Unnamed drain	5	UN 32
	Unnamed drain	5	UN 33
	Unnamed trib of Grendon Brook, from one of Grendon Lakes	5	GRB 1

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