

Technical Annex 12L Hayle Estuary: Seasonal Sensitivity  
Matrix for Ecological Receptors

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**HAYLE ESTUARY: SEASONAL SENSITIVITY MATRIX FOR ECOLOGICAL RECEPTORS**

**Aquatic Ecology & Ornithology** SENSITIVE PERIODS FOR CONSTRUCTION WORK

Area	Species or group	Month												Comments
		J	F	M	A	M	J	J	A	S	O	N	D	
Penpol	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Avoid high water temperatures
	Birds - aquatic													Area moderately important for small nos. of Little Grebe, Little Egret, Oystercatcher. V small nos. present in summer.
Carnsew Pool	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Temperature and spawning
	Birds - aquatic													Area important for Little Grebe, Oystercatcher, Dunlin, Redshank, Grey Plover & Bar-tailed Godwit. Nos. peak in winter & autumn/spring passage
C/hse Pool	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Temperature and spawning
	Birds - aquatic													Area important for Little Grebe, Little Egret, Shelduck, Redshank - nos. peak in winter & autumn/spring passage & for Mute Swan and Mallard in small numbers most of year
Carnsew quay	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Temperature and spawning
	Birds - aquatic													Area (adjacent) important for Little Grebe. V small nos. present in summer.
	Birds - terrestrial													Vegn clearance best done outside Mar-Aug; if breeding birds found work must stop immediately. Could exclude bird nesting by physical means pre-spring, so work can take place Mar-Aug if unavoidable
Harbour	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Avoid sandeel spawning & high temps
	Birds - aquatic													Area important for small nos. of Little Egret, Oystercatcher & Dunlin. V small nos. present in summer.
Harbour entrance & sand trap	Aquatic invertebrates & algae													Avoid high water temperatures
	Fish													Avoid sandeel spawning & high temps
	Birds - aquatic													Important for roosting Ringed Plover at estuary mouth as well as moderately important for Dunlin. Nos. peak in winter & autumn/spring passage
Triangular Spit	Birds - aquatic												Adjacent areas (outer Lelant and Harbour) important for Wigeon, Little Egret & moderately important for Little Grebe, Dunlin & Oystercatcher. Nos. peak mostly in winter & autumn/spring passage	

High sensitivity  
 Moderate sensitivity  
 Best time for this species/group

**Terrestrial Ecology** SENSITIVE PERIODS FOR CONSTRUCTION WORK

Area	Species or group	Month												Comments
		J	F	M	A	M	J	J	A	S	O	N	D	
Triangular Spit	Birds - terrestrial													Vegn clearance best done outside Mar-Aug; if breeding birds found work must stop immediately. Could exclude bird nesting by physical means pre-spring, so work can take place Mar-Aug if unavoidable
	Petalwort translocation													Plant is not visible during summer; translocation therefore best timed for winter period, when extent of colonies apparent
North Quay	Reptiles													Capture/translocation programmes can only be conducted whilst reptiles are active; capture is limited by high temperatures during July/Aug. Scrub clearance can occur at any time.
	Bats - maternity roosts (buildings)													Works on maternity roosts possible between mid-September to mid-May; survey of buidlings needed May-Sept prior to works to allow mitigation statement to be prepared and licence obtained
	Bats - hibernation roosts (quarry)													Works on hibernation roosts poss between mid-March to end Oct; survey of potential hibernation sites needed Nov-Feb prior to works to allow mitigation statement to be prepared and licence obtained
	Birds - terrestrial													Vegn clearance best done outside Mar-Aug; if breeding birds found work must stop immediately. Could exclude bird nesting by physical means pre-spring, so work can take place Mar-Aug if unavoidable
South Quay	Petalwort translocation													Plant is not visible during summer; translocation therefore best timed for winter period, when extent of colonies apparent
	Birds - terrestrial													Vegn clearance best done outside Mar-Aug; if breeding birds found work must stop immediately. Could exclude bird nesting by physical means pre-spring, so work can take place Mar-Aug if unavoidable