



**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

## **Environmental Statement – Volume 3 – Appendix 26.3 Human Health Cumulative Effects Assessment Matrix (Stage 3 & 4)**

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

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Environmental Statement – Volume 3 –  
Appendix 26.3 Human Health Cumulative  
Effects Assessment Matrix (Stage 3 & 4)

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## DOCUMENT

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# APPENDIX 26.3 HUMAN HEALTH CUMULATIVE EFFECTS ASSESSMENT MATRIX (STAGE 3 & 4)

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## 1.1. INTRODUCTION

This document should be read in conjunction with the cumulative effects assessment ('CEA') chapter (Chapter 29) of the Environmental Statement ('ES') Volume 1 (document reference 6.1.29), Chapter 26 (Human Health) of the ES Volume 1 (document reference 6.1.26) and Appendix 26.2 (Human Health CEA Stage 1 & 2) of the ES Volume 3 (document reference 6.3.26.2).

The CEA for the Proposed Development follows the recommended approach as detailed by the Planning Inspectorate ('PINS') in PINS Advice Note Seventeen (PINS, 2015). This document summarises the final stages of the CEA approach which include;

- Stage 3 – Collate information on the developments identified at Stage 2; and
- Stage 4 – Review the Stage 2 project to assessed whether cumulative effects may arise.

Table 1 summarises the potential cumulative effects of the short-listed developments with the Proposed Development in relation to Human Health

**Table 1 – Stage 3 & 4 CEA Matrix for Human Health**

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
8	Tier 1	Land at 38-44 London Road, Purbrook (APP/17/01 141)	Construction of 43 retirement apartments for older persons including communal facilities, parking, associated landscaping with access from Stakes Road and 2 commercial / residential units fronting London Road.	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction from both 38-44 London Road and Onshore Cable Route.</p> <p>Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the cumulative magnitude would negligible at isolated to properties adjacent to 38-44 London Road.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term.
10	Tier 1	Waterlooville Swimming Pool, Waterberry Drive, Waterlooville	Hybrid Application: Full planning permission for reconfiguration of existing car park and development of single storey deck car parking. Outline planning	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction from both new car park and Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term.

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		e, PO7 7UW (APP/17/00 295)	permission for future extension on current footprint of overflow carpark at Waterlooville Leisure Centre for access and layout with all other matters reserved.	duration, the magnitude would be low and isolated to properties adjacent to Hambledon Road.  Minor adverse effect.		
11	Tier 1	Former BAE Systems, Waterloo Park, Elettra Avenue, Waterlooville (APP/18/01 072)	Outline planning application with all matters, apart from access, reserved for development of office, storage, industrial, hotel, leisure and restaurant uses.	Potential for Human health receptors (high sensitivity) to have increased disturbance from construction (such as dust) from both mixed-use development and Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Hambledon Road.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
16	Tier 1	Former Kingston Prison, Milton Road, Portsmouth, PO3 6AS 16/00085/F UL	Redevelopment of former prison comprising: part demolition and conversion of listed buildings to provide 73 dwellings and commercial unit (within Class A1 or Class A3); demolition of non-listed structures; construction of five blocks of between three and seven stories to provide 157 dwellings; part demolition of listed prison wall and formation of new vehicular accesses to Milton Road and St Marys Road; and	Potential for human health receptors (high sensitivity) to have increased disturbance from the construction of the former prison site. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Milton Road.  Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term



ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>provision of car parking and associated landscaping and other works.</p> <p>Construction not yet started.</p>			
20	Tier 1	Land adj 1A Eveleigh Road, Portsmouth, P06 1DH 16/01588/F UL	Construction of new two storey dwelling	<p>Potential for human health receptors (high sensitivity) to have increased disturbance from construction from both Eveleigh Road and Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Eveleigh Road.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
21	Tier 1	Portsmouth Park Hotel, Eastern Road,	Construction of 2 single storey buildings to form restaurant / takeaway with drive-thru (Use	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction from both the mixed-	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Portsmouth, PO6 1UN (16/00522/FUL)	Class A3/A5) and coffee shop / café (Use Class A1/A3) with drive-thru with associated car parking and landscaping and alterations to existing hotel car park and circulation and realignment of existing access roads	use development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Eastern Road.  Minor adverse effect.		
23	Tier 1	Former Dairy Site, Station Road, Portsmouth, PO6 1PL (17/00224/OUT)	Outline application for the construction of up to 108 dwellings (principle of access only to be considered).	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction from both the residential development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Station Road.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
24	Tier 1	Kendalls Wharf, Eastern Road, Portsmouth, PO3 5LY 17/01676/FUL	<p>Construction of 50m quay wall as a continuation of the existing quay wall and provision of rock armouring at northern end to form a revetment; and construction of a 4m by 4m dolphin structure with linking walkway 25m south of existing quay.</p> <p>Works are expected to take 3 to 4 months to complete. Works would aim to commence on 1 April Dredging works are proposed to be undertaken during late May or early June.</p>	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction from both the quay wall development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Eastern Road.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
27	Tier 1	Land to north of Harbourside	Change of use of enclosed area of unused land to form an	Potential for human health receptors (high sensitivity) to have increased disturbance from the associated	N/A Effect not significant	Minor adverse, indirect,

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Holiday and Lodge Park, Eastern Road, Portsmouth, PO3 6QB  (18/01182/FUL)	extension to the existing Harbourside Holiday Park adjoining to the south	works with the extension of the Harbourside Holiday Park and the Onshore Cable Route. Disruption from the onshore cable construction could last  up to several weeks but the magnitude would be low and isolated to Harbourside Park and adjacent businesses.  Minor adverse effect.		temporary and short-term
28	Tier 1	St James Hospital, Locksway Road, Southsea, PO4 8HW  (18/00288/OUT)	Outline application for the construction of 107 dwellings including provision of vehicular and pedestrian access, public open space and hard and soft landscaping  Construction of 4 years anticipated, commencing in 2018 and completing in 2021.	Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the residential development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Locksway Road.  Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
29	Tier 1	Admiral Lord Nelson School, Dundas Lane, Portsmouth, PO3 5XT  (18/01891/F UL)	Construction of single storey front extension to include 10 additional classrooms and new sports pitches	Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the construction of the school site and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Dundas Lan.  Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
30	Tier 1	Unit 5, Interchange Park, Robinson Way, Portsmouth, PO3 5QD  (18/01027/F UL)	Construction of building of 3004 sqm (GEA) for use within light or general industrial purposes (B1 or B2) or storage and distribution (B8)	Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the construction of the industrial site and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				isolated to properties adjacent to Robinson Way. Minor adverse effect		
31	Tier 1	Self-Drive Depot, Airport Service Road, Portsmouth, PO3 5PW (18/01050/FUL)	Construction of After Sales Centre (B2) comprising 18-bay workshop/MOT centre, reception area, service drive-in and associated development	Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the construction at the Self-Drive Depot and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and limited to those accessing services along Airport Service Road and golfers on the Southsea Golf Club Course. Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
33	Tier 1	Cliff House, Drayton Lane, Portsmouth, PO6 1BS	Construction of two-storey, three-bedroom detached chalet bungalow. Construction of carport and	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction at Cliff House and Onshore Cable Route. Disruption from the Onshore Cable Route	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		(18/01620/F UL)	extensions to Cliff House.	development could last up to several weeks but the magnitude would be low and isolated to properties adjacent to Drayton Lane. Minor adverse effect.		
34	Tier 1	81 Solent Road, Portsmouth, PO6 1HJ (18/01618/F UL)	Construction of two dwelling houses following demolition of existing.	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction at 81 Solent Road and the Onshore Cable Route. Disruption from the Onshore Cable Route development could last up to several weeks but the magnitude would be low and isolated to properties adjacent to Solent Road. Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
35	Tier 1	142 Milton Road, Portsmouth, PO4 8PN (18/02089/F UL)	Construction of 4 storey residential block to form 12 flats.	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction at 142 Milton Road and the Onshore Cable Route. Disruption from the Onshore Cable Route development could last up to	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				several weeks but the magnitude would be low and isolated to properties adjacent to Milton Road. Minor adverse effect.		
36	Tier 1	Land Bounded by Tanners Lane, Kidmore Lane and Anmore Road, Denmead (17/00335/F UL)	Erection of 91 residential units, associated public open space, residents car park, landscaping, access, car parking, partial realignment of road junction and associated works (resubmission). 2-year construction programme anticipated.	Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the residential development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Tanners Lane, Kidmore Lane and Anmore Road. Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
37	Tier 1	Land to rear of 32-36 Mill Road, Denmead, PO7 6PA	3 new dwellings	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction at 32-36 Mill Road and the Onshore Cable Route.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term



ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		(16/01861/F UL)		<p>Disruption from the Onshore Cable Route development could last up to several weeks but the magnitude would be low and isolated to properties adjacent to Mill Road.</p> <p>Minor adverse effect.</p>		
43	Tier 1	<p>Grainger Development Site Land West of London Road, Waterlooill / Newlands Phase 1 Hambledon Road, Denmead, Hampshire</p> <p>(APP/10/00 828 and 10/02862/0 UT)</p>	<p>Outline application for the development of approx 2,550 no. dwellings including the construction of a new access from Ladybridge Roundabout, Milk Lane and completion of Maurepas Way access, a local centre (comprising retail, community building, land for health care, land for elderly care) public house, land for 2 primary schools, land for a nursery, land for employment uses,</p>	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from both the residential development and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Hambledon Road.</p> <p>Minor adverse effect</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>associated amenity space along with substantial green infrastructure, SuDS, land for allotments, main pumping station, land for cemetery, restoration of River Wallington, together with landscape structure planting (Matters for Approval Access only). Full planning application for the development of Phase 1 comprising 194 no. dwellings, internal roads, garages, driveways, pathways, boundary treatment, substation, pedestrian/cycle ways, including to Maurepas Way, associated parking spaces, flood attenuation ponds,</p>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			temporary play provision, associated amenity space and hard and soft landscape works. Full planning for engineering operations associated with infrastructure requirements and service provision for the detailed Phase 1 application, the temporary closure of Havant Footpath No 11 and Southwick and Widley Footpath No 30, with suitable alternative route provided (approved 18/04/2012).			
46	Tier 1	Berewood Phase 1, Hambledon	104 units of private rented accommodation	Potential for Human Health receptors (high sensitivity) to have increased disturbance from	N/A Effect not significant	Minor adverse, indirect,

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Road, Denmead (14/02872/R EM)		construction of the Berewood Phase 1 and the Onshore Cable Route. Disruption from the Onshore Cable Route development could last up to several weeks but the magnitude would be low and isolated to properties adjacent to Mill Road. Minor adverse effect.		temporary and short-term
50	Tier 1	Berewood Phase 2 Development Site, London Road, Purbrook (APP/16/01 211 and 16/03168/R EM)	Reserved Matters application for Phase of the Town Park	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the Berewood Phase 2 and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to London Road. Minor adverse effect	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
54	Tier 1	Berewood Phase 10a, South of Marrelsmoor Avenue, Waterlooville, Hampshire (17/02956/REM)	Reserved Matters application for 43 dwellings	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the Berewood Phase 10a and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Marrelsmoor Avenue.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
55	Tier 1	Berewood Phase 9a, West of Marrelsmoor Avenue, Waterlooville, Hampshire 18/01351/REM	Reserved Matters application for 104 dwellings	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the Berewood Phase 9a and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				<p>low and isolated to properties adjacent to Marrelsmoor Avenue.</p> <p>Minor adverse effect.</p>		
56	Tier 1	Berewood E2, Plot 1, Houghton Avenue, Waterlooville, Hampshire (18/01581/REM)	Reserved Matters application for 10,177 sqm of B1/B2/B8 floorspace	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the Berewood Phase 10a and the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Houghton Avenue.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
58	Tier 1	Portsmouth City Centre Highway Network incorporating parts of Mile End	Modification of existing road network around the A3 southwards from the junction with Princess Royal Way to the junction with Unicorn Road, including	Due to distance from human health receptors (high sensitivity), the effects are likely to be limited to disturbance and increased congestion due to construction traffic only.	N/A Effect not significant	Negligible

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Road, Church Street, Commercial Road Marketway, Charlotte Street, Cascades Approach, Hope Street, Flathouse Road (17/02066/C S3)	construction of a new link road between Flathouse Road and the A3 south of Herbert Street; associated site clearance, junction works, bus and cycle routes and necessary highway alterations, with landscaping, street furniture, road signage, markings and lighting. Demolition of Pickfords Vanguard Ltd, Flathouse Road, PO1 4QJ. Partial demolition and reconfiguration of the western edge of Morrisons Supermarket, Victory Retail Park, Flathouse Road, PO1 4QP. Repositioning of Clarence Street service yard access gate to Sainsbury's	Negligible magnitude due to intermittent and temporary effect. Negligible effect.		

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			Supermarket, 315 Commercial Road, PO1 4BS.			
59	Tier 1	Welborne Land North of Fareham, Fareham (P/17/0266/OA)	New Community of Up To 6000 Dwellings and various other uses	Due to distance from human health receptors (high sensitivity), the effects are likely to be limited to disturbance and increased congestion due to construction traffic only.  Negligible magnitude due to intermittent and temporary effect.  Negligible effect.	N/A Effect not significant	Negligible
60	Tier 1	Site of Fawley Power Station (Fawley Waterside) (17/11559)	Mixed use redevelopment of redundant power station.	Due to distance from human health receptors (high sensitivity), the effects are likely to be limited to disturbance and increased congestion due to construction traffic only.  Negligible magnitude due to intermittent and temporary effect.  Negligible effect.	N/A Effect not significant	Negligible



ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
62	Tier 1	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf (19/00706/F UL)	Phase 4 of the North Portsea Island Coastal Flood Defence Scheme is a combination of two distinct sections: Kendall's Wharf and Eastern Road. The full length of the frontage is 2,4 km (300 m for Kendall's Wharf and 2,1 km for Eastern Road). The sea defences are being raised to +4,8 m AOD along the frontage to accommodate a 1 in 500 Standard of Protection (SOP). The road raising and steel sheet piles of Kendall's Wharf works will be raised to a lower level as set back from the coast.	Potential for human health receptors (high sensitivity) to have increased disturbance from construction of the new sea wall and rock armouring as well as the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Eastern Road.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>The Kendall's Wharf defences tie in with Anchorage park embankment defences (constructed in 2016) in the North and are set landward of Kendall's Wharf aggregates, who are responsible for their own flood protection. The first c. 150 m of sea defence will be a raised earth embankment with a 3 m crest and continuation of the 2 m wide coastal path. This will tie into an area of road raising landward of Kendall's Wharf. South of the road will be a 150 m steel sheet pile wall which will tie into the coastal defences at Eastern Road.</p>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>The scope of the works for Eastern Road, at summary level, comprises of the construction of a reinforced seawall, including sheet pile and bearing pile installation with local realignment. Part of this will be an encasement and part new sea wall with a stepped revetment. The construction of replacement slipways and access steps will also be required.</p> <p>Other aspects of phase 4 that will /could be involved and should be considered by the contractor:</p> <ul style="list-style-type: none"> <li>— some minor elements of contractor led design,</li> </ul>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<ul style="list-style-type: none"> <li>— additional ground /site investigation,</li> <li>— services searches and trial pitting to locate services,</li> <li>— installation of flood boards /gates,</li> <li>— responding to any emergency failures to other parts of PCC’s coastal defence related assets for which PCC may call on the contractor’s services,</li> <li>— site clearance,</li> <li>— demolition and removal of 150 m of existing seawall in the southern section of the site and creation of a high roost site /bird island,</li> </ul>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<ul style="list-style-type: none"> <li>— reconstruction of the coastal path,</li> <li>— landscape works.</li> </ul>			
65	Tier 1	Norths Hill, Portsmouth, PO6 3RU (18/01646/FUL)	Construction of 20MW embedded Short Term Operating (STOR) generating plant building; auxillary equipment; DNO substation associated works; and a new wooden maintenance shed.	<p>Potential for human health receptors (high sensitivity) to have increased disturbance from the demolition and development at Fraser Range as well as the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Norths Hill.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
66	Tier 1	Fraser Range (19/00420/FUL)	Part demolition and redevelopment of the site. Including the conversion of three existing structures and construction of new buildings (108	<p>Potential for human health receptors (high sensitivity) to have increased disturbance from the demolition and development at Fraser Range as well as the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			apartments and 26 houses), associated access, parking and landscaping works and construction of new seawall flood defences.	several weeks however, due to the relatively short duration, the magnitude would be low and isolated to receptors located around Fraser Range.  Minor adverse effect.		
67	Tier 1	Land South of Lovedean Electricity Substation, Broadway Lane, Lovedean, Waterlooville  57524/001	Installation of two energy storage systems and associated infrastructure with a total capacity of 49.95MW	Potential for human health receptors (high sensitivity) to have increased disturbance from construction from both the Lovedean substation and the Onshore Cable Route. Disruption from the Onshore Cable Route development could last up to several weeks but the magnitude would be low and isolated to the small number of properties located on Broadway Lane.  Minor adverse effect.  There is the potential for cumulative noise effects which could impact human health, though it is not possible to quantify these effects as	N/A Effect not significant	Minor adverse, indirect, temporary and short-term.

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				<p>a noise assessment for the 'other development' has not been undertaken (see Appendix 24.9 Noise and Vibration). These effects are expected to be limited to Broadway Farm Cottages and Broadway Farm House based on these being the closest receptors to the 'other development'.</p>		
68	n/a	<p>Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead</p> <p>19/01071/F UL*</p>	<p>Pivot Power considering site for battery storage plant project</p>	<p>Potential for human health receptors (high sensitivity) to have increased disturbance from construction from both the battery power plant and the Onshore Cable Route. Disruption from the Onshore Cable Route development could last up to several weeks but the magnitude would be low and isolated to the small number of properties located on Old Mill Lane.</p> <p>Minor adverse effect.</p> <p>Appendix 24.9 (Noise and Vibration) has identified the potential for a</p>	N/A Effect not significant	<p>Minor adverse, indirect, temporary and short-term.</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				<p>significant noise effect during the night-time at The Haven and Hillcrest due to the Pivot Power development, during operation.</p> <p>It is not possible to quantify this operational effect until further assessment has been completed by the 'other development'.</p>		
69		36 Mill Road Denmead PO7 6PA (16/01861/F UL)	Proposed land to rear of 32-36 MILL ROAD FOR 3 Houses of 1 No. 3 Bed House and 2 No. 2 Bed Houses	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction at 36 Mill Road and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Mill Road.</p> <p>Minor adverse effect.</p>	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
70		Lovedean Electricity	Installation of 30m high Telecommunication	<p>Potential for Human Health receptors (high sensitivity) to have increased disturbance from</p>	N/A Effect not significant	Minor adverse, indirect,



ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Station, Broadway Lane, Lovedean, Waterlooville, PO8 0SJ (32642/003)	Mast 0.6 m dish and 0.6 m antenna for network connections between electricity substations.	construction at 36 Mill Road and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Broadway Lane.  Minor adverse effect.		temporary and short-term
71		Land South of, Chalton Lane, Clanfield, Waterlooville (28463/002)	207 dwellings and provision of open space, sports pitches, bowling green, pavilion and allotments, with associated access, parking, access roads, footpaths/cycle paths, landscaping and works, with demolition of existing buildings and structures (as amended	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the residential development and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Chalton Lane.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			by plans received 30 September 2014			
72		Yew Tree Cottage, Eastland Gate, Lovedean, Waterlooville, PO8 0SR (26982/003)	Change of use of agricultural fields to private equestrian paddocks, creation of associated manege and horse walker	Potential for Human Health receptors (high sensitivity) to have increased disturbance from construction of the private equestrian paddocks and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Yew Tree Cottage.  Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term
73		England Coast Path – Portsmouth to South Hayling	Natural England's proposals to the Secretary of State under section 51 of the National Parks and Access to the Countryside Act 1949	Potential for human health receptors (high sensitivity) to have increased disturbance from construction of the new sea wall and rock armouring as well as the Onshore Cable Route (such as dust). Construction of the onshore cable could last up to several weeks however, due to the	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			for improved access along the coast of Hampshire between Portsmouth and South Hayling	relatively short duration, the magnitude would be low and isolated to properties adjacent to Eastern Road. Minor adverse effect.		
74	Tier 1	Southsea Seafront from Long Curtain Moat in the West to Eastney Marine Barracks in the East (19/01097/F UL)	Flood and coastal erosion management scheme comprising a combination of vertical sea wall, raising and realignment of the promenade, construction of stepped revetment, rock armour revetments and groynes, secondary defence walls and bunds, beach widening and management, and all associated works, highway alterations,	Potential for human health receptors (high sensitivity) to have increased disturbance from the construction of the flood and coastal erosion management scheme and the Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Southsea Seafront. Minor adverse effect.	N/A Effect not significant	Minor adverse, indirect, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>removal of trees and landscaping. Scheme includes the removal and repositioning of 34 Grade II Listed lamp columns, 3 Grade II Listed shelters and 6. Grade II Listed monuments, works affecting the Grade II Listed South Parade Pier, regrading and works to the Grade II Listed Southsea Common and works to the Grade I Listed Naval Memorial. The proposal constitutes EIA development.</p>			

\*The application for development number 68 (Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead 19/01071/F3UL) was withdrawn on the 2/07/2019. As the application could be re-submitted in the future, for the purpose of the cumulative effects assessment, it has been assessed.

