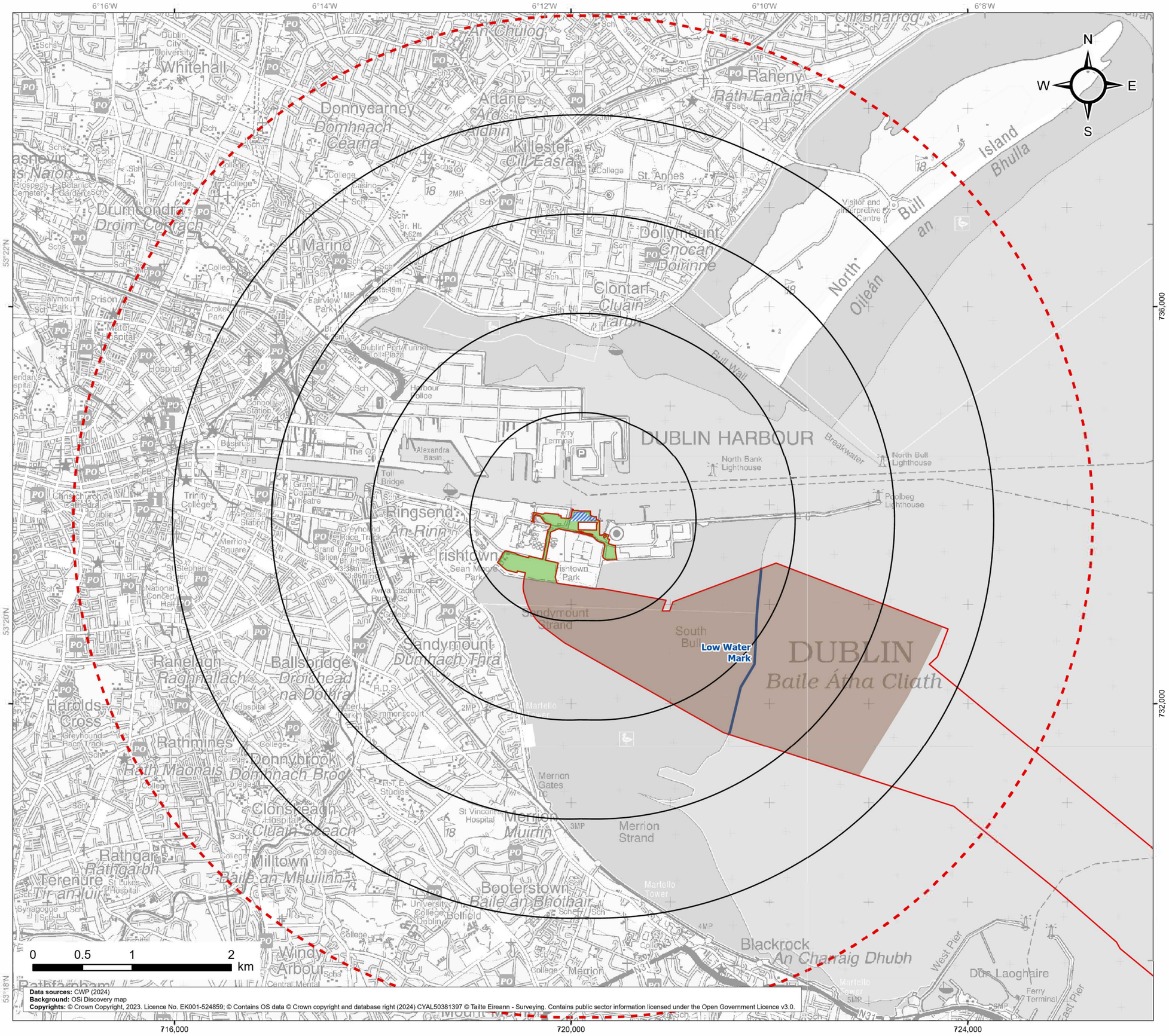
codling wind park

Environmental Impact Assessment Report

Volume 4

Appendix 23.3 Landscape and Visual Impact Assessment (LVIA) Figures and Visualisations



Data sources: CWP (2024)
Background: OSi Discovery map
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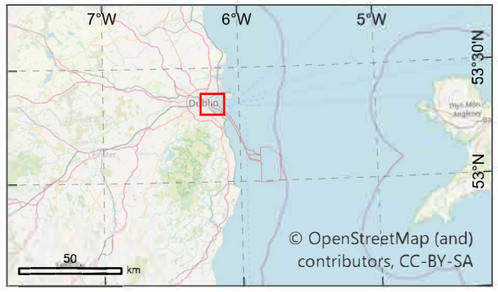


Legend

- Onshore substation (operational boundary)
- 1km radii
- 5km radius LVIA study area
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary

codling wind park	*Project:* Codling Wind Park	*Contractor:* open optimised environments PART OF SLR	*Website:*

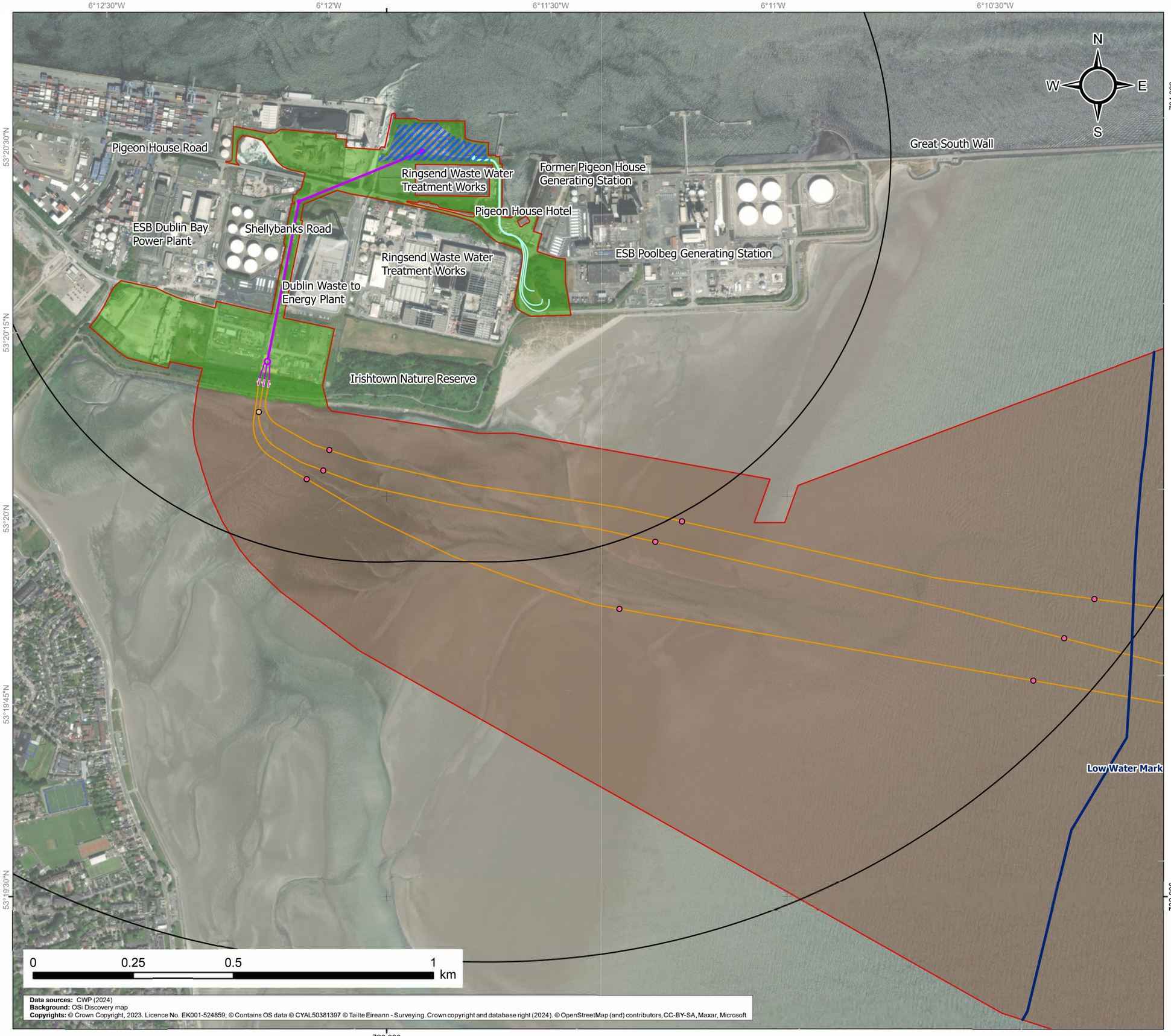
Figure 23.1
Onshore and landfall area locations and LVIA study area

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1032

Internal descriptive code: DU BAY - PAB.PB.RLB.SS.PP.PL.BUFF.5km - INTERTIDAL.AREA.EXT.LWM - (EIAR.Vol.04.Ch.23.Ap.03.FIG.01)

Size: A3
Scale: 1:37,000
CRS: EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	DM/EA	CC



Data sources: CWP (2024)
Background: OSi Discovery map
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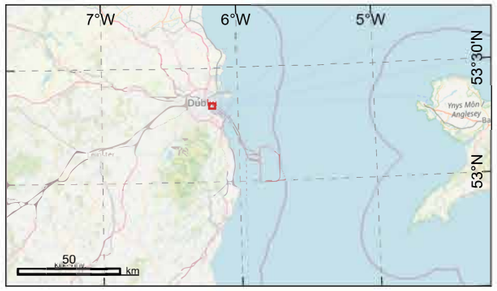


Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall Area
- Planning application boundary
- Cofferdam
- Tensioner platform
- Transition joint bay (TJB)
- ESBN network cable
- Onshore export cable
- Offshore export cable preferred alignments
- Low water mark

codling wind park	*Project:* Codling Wind Park	*Contractor:*	open optimised environments PART OF SLR
		Website:	

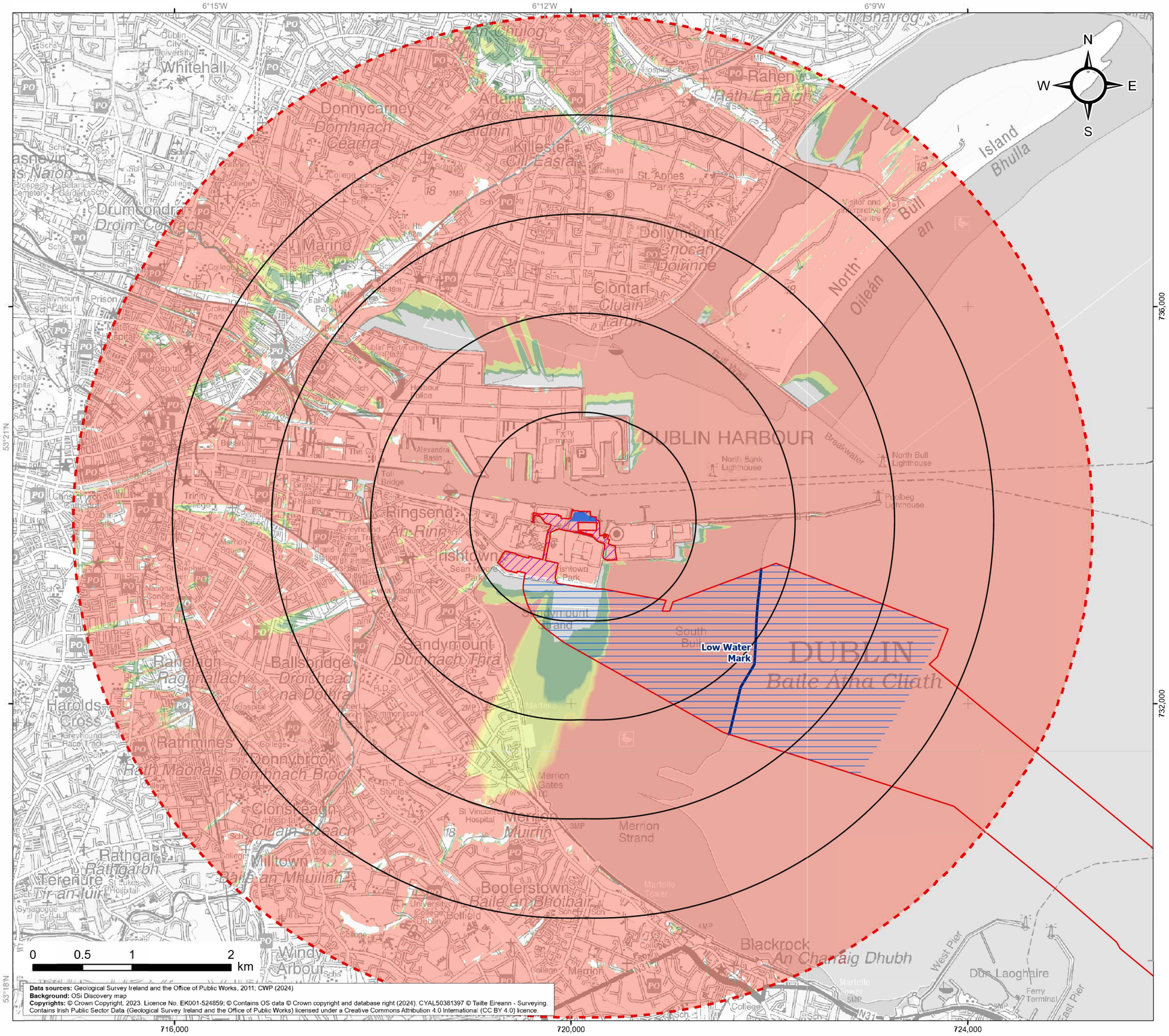
Figure 23.2
Proposed cables (onshore and offshore) and temporary installation structures

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1033

Internal descriptive code: DU.BAY.-PAB..OECs.3PB.Opt8..COFF..INTERTIDAL.PILING..PB.RLB..TJBs6.LoD..OnC.LF4.to.SS.PP.T..SS.PP.PL..ENC - INTERTIDAL.AREA.EXT..LWM - (EIAR.Vol.04.Ch.23.Ap.03.FIG.02)

Size: A3
Scale: 1:9,250
CRS: EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	DM/EA	CC



Data sources: Geological Survey Ireland and the Office of Public Works, 2011; CWP (2024)
Background: OSi Discovery map
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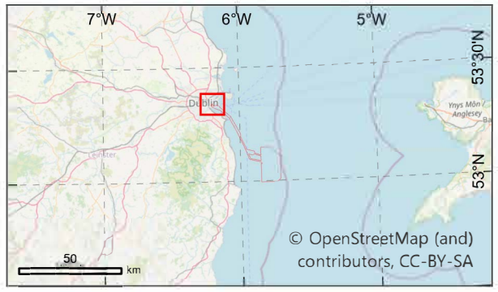


Legend

- Onshore substation (operational boundary)
- 1km radii
- 5km radius LVIA study area
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary

Substation Theoretical Visibility*

- Higher Visibility
- Lower Visibility

Substation Height:	30.2m AOD (Maximum - based on architect's model)	Observer height:	2m
DTM:	OPW DTM	Surface features:	Excluded
DTM resolution:	2m	Earth curvature:	Included

*Higher or lower levels of relative visibility of the substation buildings. This is based on theoretical visibility of a grid of points across the highest levels of each building from locations in the study area at 2m above ground level.

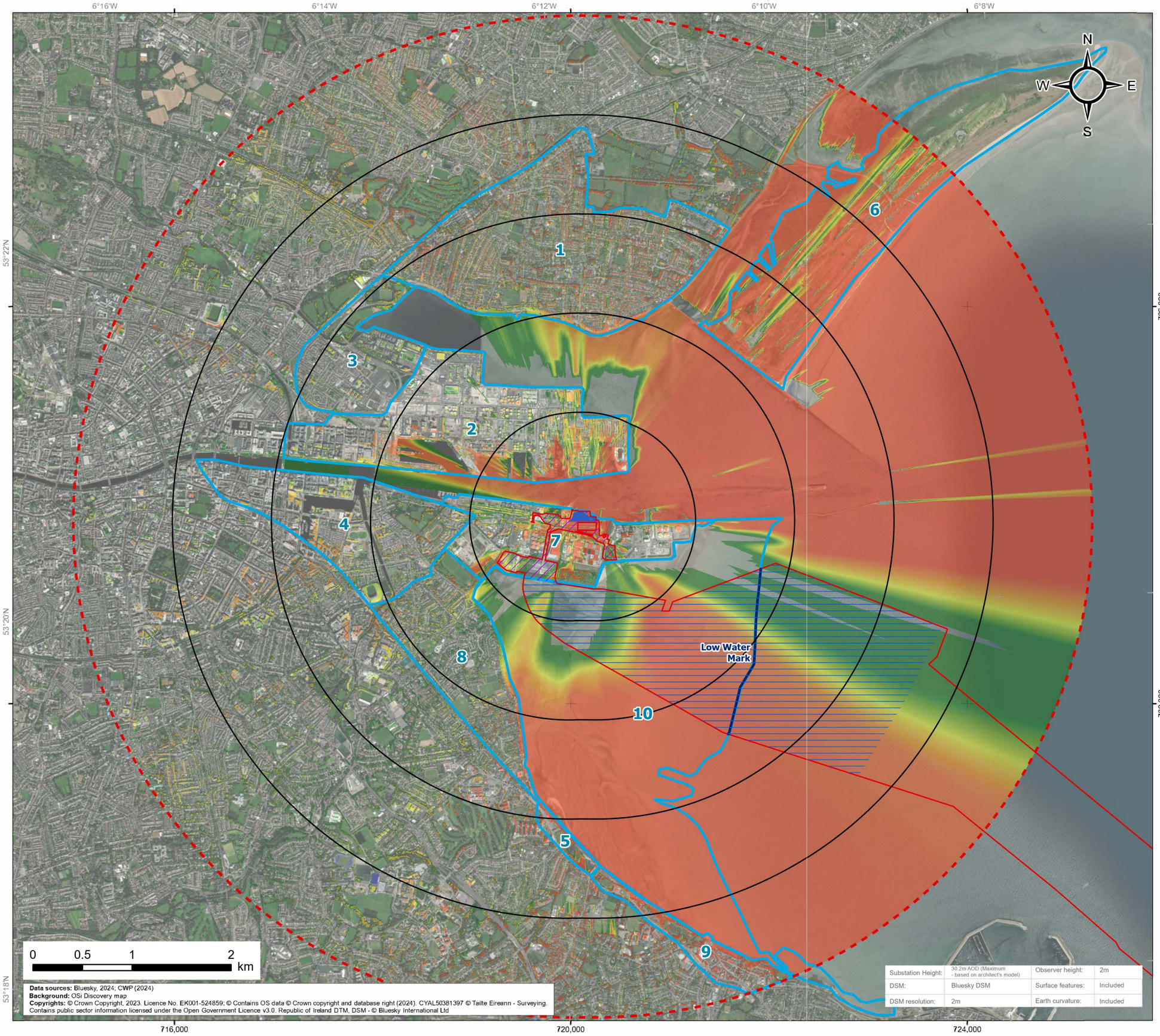
codling wind park	Project: Codling Wind Park	Contractor:	open optimised environments PART OF SLR
		Website:	

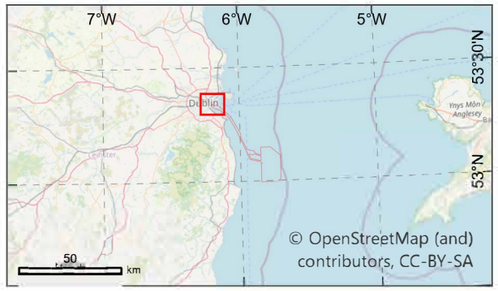
Figure 23.3
Onshore substation bare ground zone of theoretical visibility (ZTV)

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1034

Internal descriptive code:	Size:	CRS:
DU.BAY - PAB .PB.RLB .SS.PP.PL.BUFF.5km SS.PP.ZTV.DTM - INTERTIDAL.AREA.EXT. LWM - (EIAR.Vol.04.Ch.23.Ap.03.FIG.03)	A3 Scale: 1:37,000	EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	DM/EA	CC





Legend

- Onshore substation (operational boundary)
- 1km radii
- 5km radius LVIA study area
- Onshore development area
- Landfall Area
- Low water mark
- Planning application boundary
- Landscape / townscape character areas
  1. Clontarf TCA
  2. Dublin Docklands TCA
  3. East Wall TCA
  4. South Docklands, Irishtown and Ringsend TCA
  5. Merrion TCA
  6. North Bull Island TCA
  7. Poolbeg Peninsula TCA
  8. Sandymount TCA
  9. Booterstown & Blackrock TCA
  10. Mudflats LCA

Substation Theoretical Visibility*

- Higher Visibility
- Lower Visibility

*Higher or lower levels of relative visibility of the substation buildings. This is based on theoretical visibility of a grid of points across the highest levels of each building from locations in the study area at 2m above ground level.

codling wind park	Project: Codling Wind Park	Contractor: open optimised environments PART OF SLR	Website:

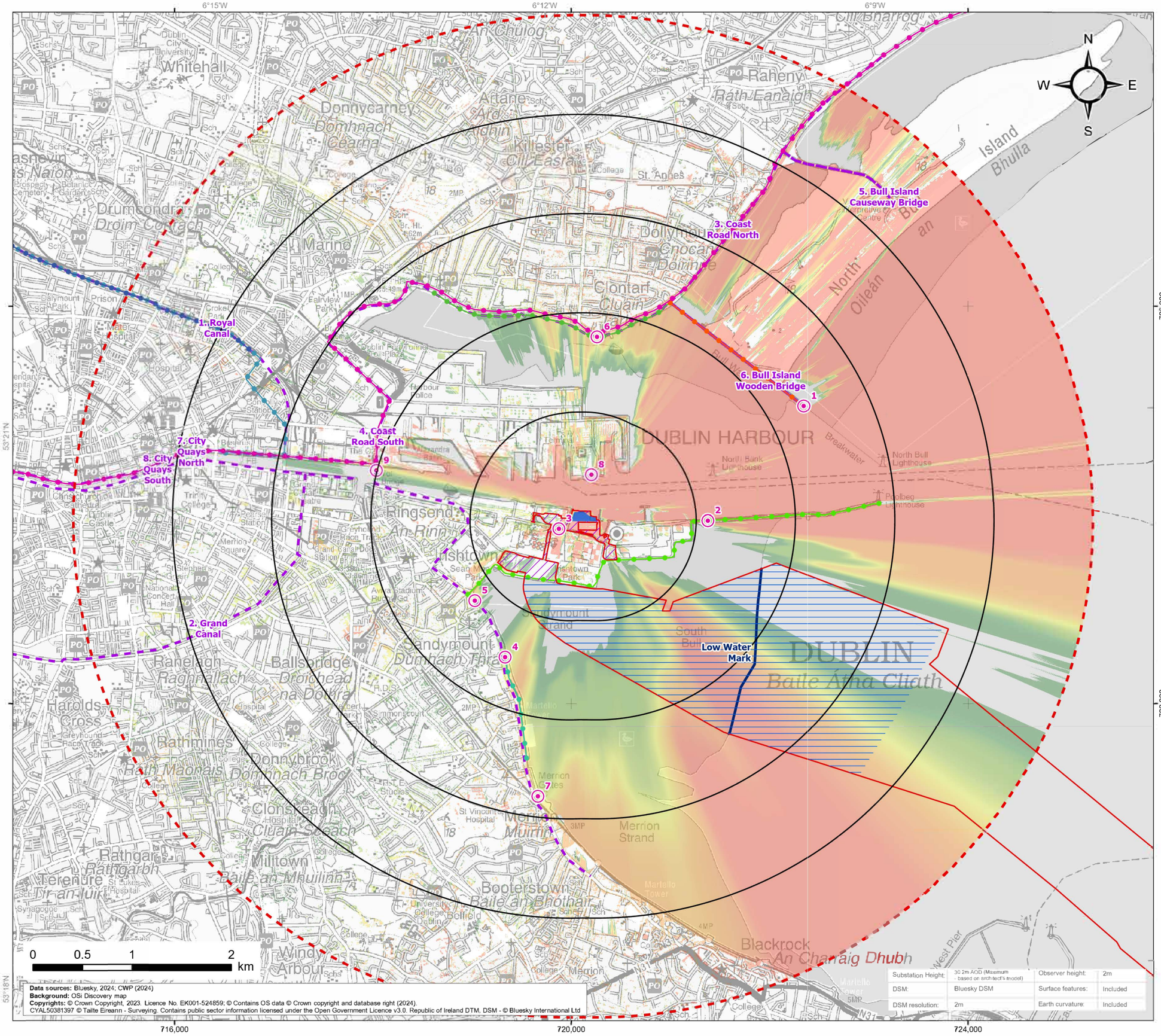
Figure 23.4
Onshore substation obstructed zone of theoretical visibility (ZTV)

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1035

Internal descriptive code: DU.BAY - PAB, PB.RLB, SS.PP.PL.BUFF.5km SS.PP.ZTV.DSM - INTERTIDAL.AREA.EXT LWM, LCAs, TCAs - (EIAR.Vol 04.Ch 23.App 03.FIG.04)

Size: A3
Scale: 1:37,000
CRS: EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	DM/EA	CC



Data sources: Bluesky, 2024; CWP (2024)
Background: OSi Discovery map
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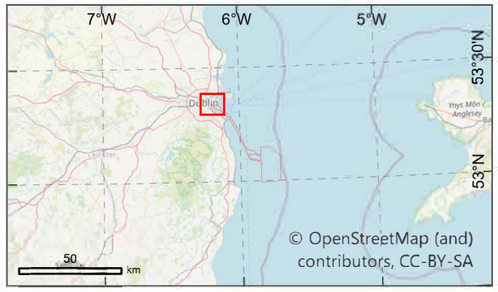
Substation Height:	30.2m AOD (Maximum - based on architect's model)	Observer height:	2m
DSM:	Bluesky DSM	Surface features:	Included
DSM resolution:	2m	Earth curvature:	Included



Legend

- Onshore substation (operational boundary)
- 1km radii
- 5km radius LVIA study area
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary

Visual receptors

- Bull Wall
- Clontarf Promenade
- Great South Wall Walk
- National Famine Way
- Royal Canal Way
- Sandymount Promenade
- Great Dublin Bike Ride
- Public Right of Way

Substation Theoretical Visibility*

- Higher Visibility
- Lower Visibility

Viewpoints

1. Bull Road / Bull Wall
2. Great South Wall
3. Pigeon House Road
4. Sandymount Promenade
5. Sandymount Strand
6. Clontarf
7. Strand Road
8. Dublin Port Ferry Terminal 1
9. Tom Clarke Bridge

*Higher or lower levels of relative visibility of the substation buildings. This is based on theoretical visibility of a grid of points across the highest levels of each building from locations in the study area at 2m above ground level.

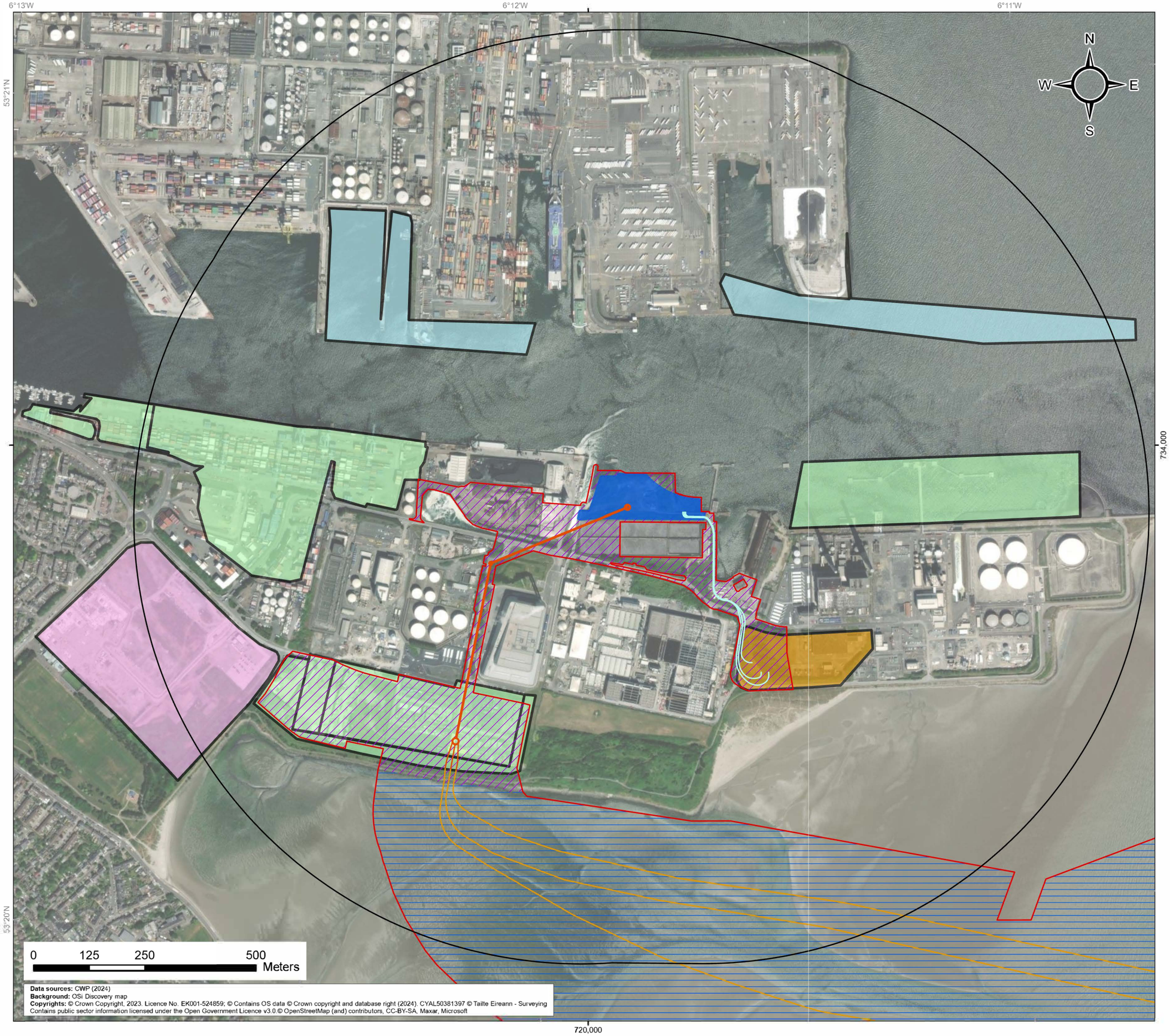
codling wind park	*Project:* Codling Wind Park	*Contractor:* open optimised environments PART OF SLR; *Website:*

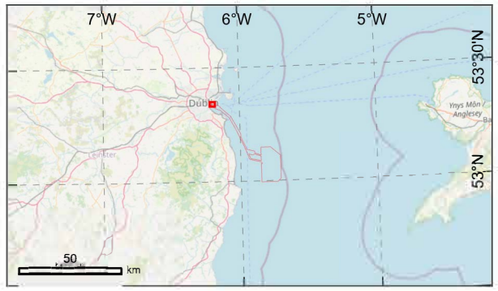
Figure 23.5
Obstructed zone of theoretical visibility (ZTV) with visual receptors and viewpoint locations

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1036

Internal descriptive code:	*Size:* A3	*CRS:*
DU.BAY - PAB_PB_RLB_SS.PP.PL_BUFF.5km_SS.PP.ZTV DSM -VISUAL.RECEPTORS_VIEWPOINTS_INTERTIDAL_AREA.EXT_LWM - (EIAR.Vol.04.Ch.23.Ap.03.FIG.05)	*Scale:* 1:37,000	EPSG 2157

Rev.	*Updates*	*Date*	*By*	*Chk'd*	*App'd*
00	Final for issue	2021/09/08	SP	DM/EA	CC





Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Planning application boundary
- ESBN network cable
- Onshore export cable
- Offshore export cable preferred alignments

Cumulative developments

- Dublin Port 3FM main development area
- Dublin Port MP2
- EirGrid Poolbeg 220kV Substation
- Former Irish Glass Bottle Site

codling wind park	*Project:* Codling Wind Park	*Contractor:*	open optimised environments PART OF SLR
		Website:	

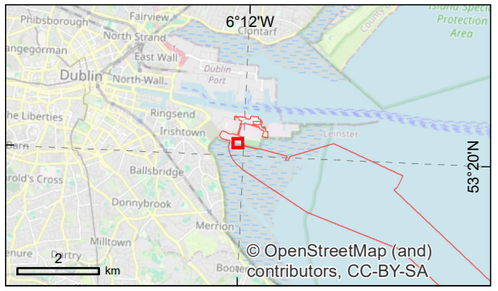
Figure 23.6
Cumulative developments within the LVIA study area

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1037

Internal descriptive code: PB - PAB_OECs.3PB.●06●_PB.RLB_●nC.LF4 to SS.PPT SS.PPPL_ENC_DU.PORT.3FM_DU.PORT.MP2_EIRGRID.PB 220KV.SS_F.IGB.SITE_INTERTIDAL AREA EXT - (EIAR.Vol.04.Ch.23.Ap.03.FIG ●06)

Size: A3
Scale: 1:8,250
CRS: EPSG 2157

Rev.	*Updates*	*Date*	*By*	*Chk'd*	*App'd*
00	Final for issue	2021/09/08	SP	DM/EA	CC



Legend

- Planning application boundary
- Landfall temporary working area
- Temporary shore access ramp working area
- Onshore export tunnel to the onshore substation
- TJB connection to Tunnel cable
- Transition joint bays
- Reinstatement boundary
- Construction boundary
- Reinstated contours after landfall excavation
- Existing contours

Mitigation planting

- Native shrub planting
- Wildflower planting
- Woodland planting

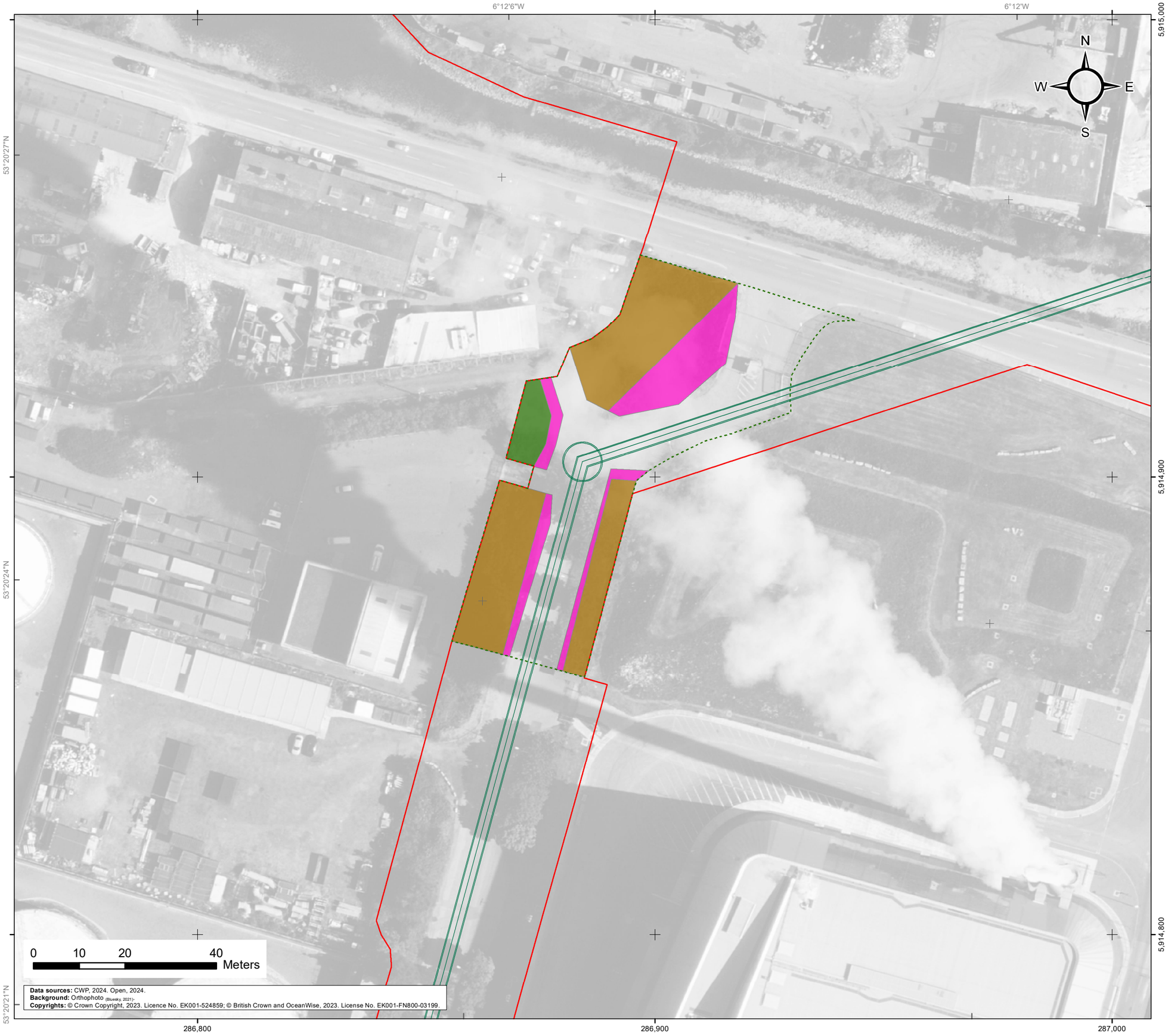
codling wind park	*Project:* Codling Wind Park	*Contractor:* *Website:*

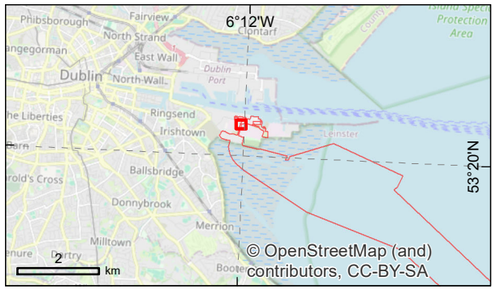
Figure 23.7
Mitigation planting landfall

CWP doc. number: CWP-CWP-ENG-08-01-MAP-1038

Internal descriptive code:	*Size:* A3	*CRS:*
PB.LF4 - PAB..LF4.TWAxHWM..CONSTRUCT.BOUND..TJBs6..REINST.BOUND..REINST.S.BERM.M..CONT..On-C.LF4 to S5.PP.T..SH.ACC - MITIGAT.PLANT - (ORT.BS.21..EIAR.Vol.04.Ch.23.Ap.03.FIG.07)	*Scale:* 1:800	EPSG 25830

Rev.	*Updates*	*Date*	*By*	*Chk'd*	*App'd*
00	Final for issue	2024/07/24	MC/EA	DM	ES





Legend

- Planning application boundary
- Temporary tunnel shaft compound
- Onshore export tunnel to onshore substation

Mitigation planting

- Native shrub planting
- Wildflower planting
- Woodland planting

Note: All planting subject to final reinstatement agreements with relevant landowner.

codling wind park	*Project:* Codling Wind Park	*Contractor:* *Website:*

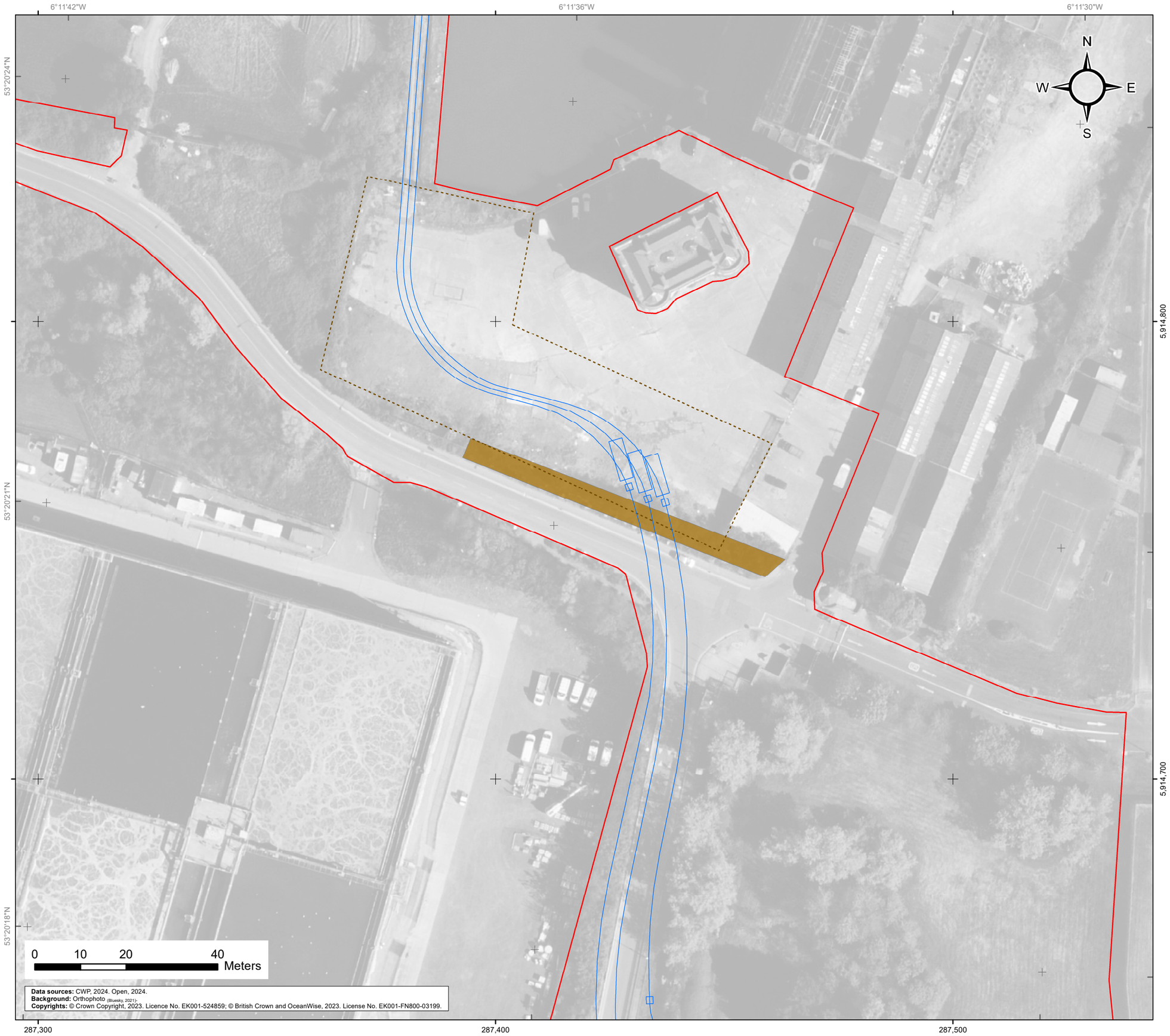
Figure 23.8
Mitigation planting Shellybanks road

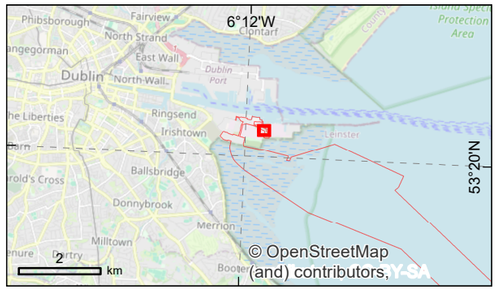
CWP doc. number: CWP-CWP-ENG-08-01-MAP-1039

Internal descriptive code: PB.SHEL.RD - PAB..OnC.LF4.to.SS.PP.T..COMPs.T - MITIGAT.PLANT - (ORT.BS.21..EIAR.Vol.04.Ch.23.Ap.03.FIG.08)

Size: A3
Scale: 1:800
CRS: EPSG 25830

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2024/07/24	MC/EA	DM	ES





Legend

- Planning application boundary
- Construction compound
- ESBN network cables

Mitigation planting

- Native shrub planting

codling wind park	*Project:* Codling Wind Park	*Contractor:* *Website:*

Figure 23.9
Mitigation planting Pigeon House road

CWP doc. number: CWP-CWP-ENG-08-01-MAP-1040

Internal descriptive code:	*Size:* A3	*CRS:*
PB.PH - PAB..ENC..COMPs.ENC - MITIGAT.PLANT - (ORT.BS.22..EIAR.Vol.04.Ch.23.Ap.03.FIG.09)	*Scale:* 1:800	EPSG 25830

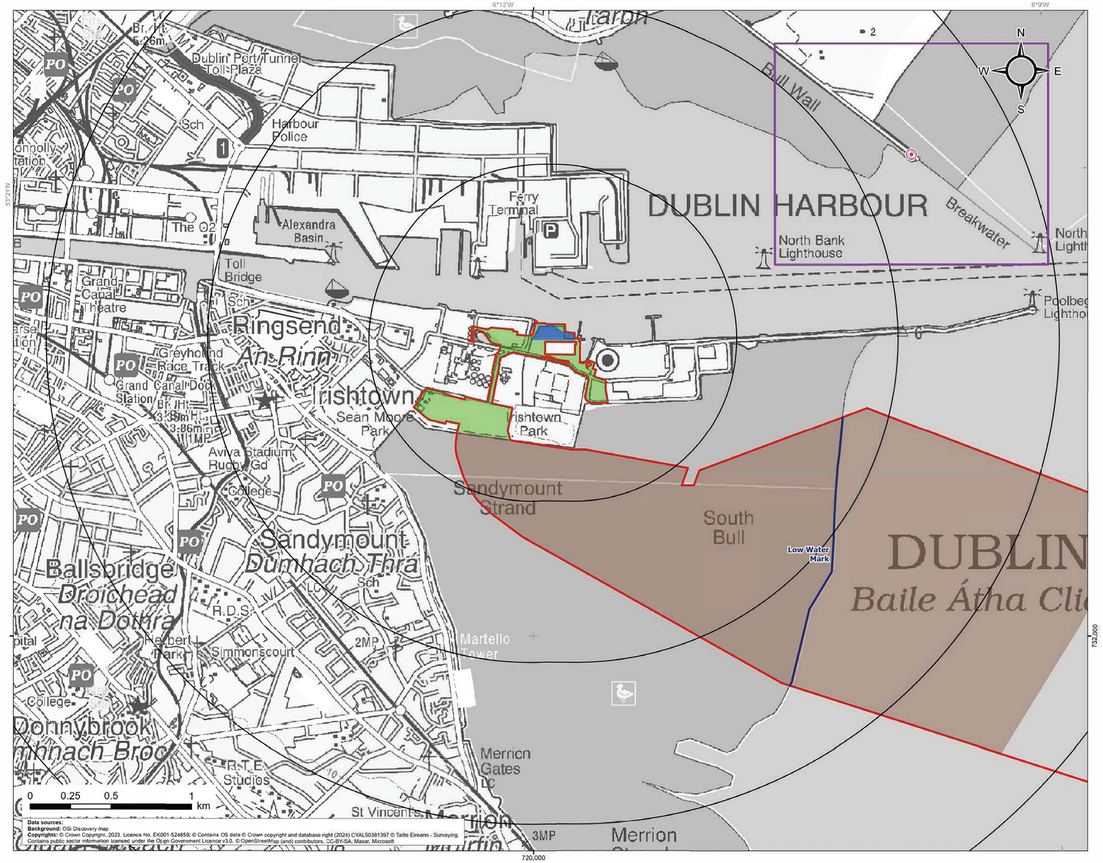
Rev.	*Updates*	*Date*	*By*	*Chk'd*	*App'd*
00	Final for issue	2024/07/23	MC/EA	DM	ES

codling wind park

Environmental Impact Assessment Report

Volume 4

Appendix 23.3 Landscape and Visual Impact Assessment (LVIA) Figures and Visualisations



7°W
6°W
5°W
53°30'N
53°N
Dublin Bay
Wicklow Mountains
Wicklow
Arklow
Gorey
Wexford
Waterford
Kilkenny
Carlow
Tullamore
Mullingar
Kilcock
Dublin
Navan
Kilmore Quay
Rosslare
Dunmanway
Bantry
Cork
Kinsale
Ballyvourney
Tralee
Killarney
Dingle
Ballybunion
Limerick
Ennis
Shannon
Galway
Ballinasloe
Athlone
Roscommon
Castlebar
Westport
Ballina
Sligo
Donegal
Letterkenny
Ballyshannon
Enniskillen
Cavan
Monaghan
Dundalk
Newry
Belfast
Ballymena
Coleraine
Derry
Omagh
Portadown
Lisburn
Ballyclare
Ballycastle
Larne
Newtownards
Downpatrick
Kilkeel
Newcastle
Portrush
Portstewart
Limavady
Strabane
Dungannon
Cookstown
Ballyshannon
Ballyjamesduff
Kilkenny
Tullow
Bagenalstown
Ballinrobe
Tuam
Clonmel
Dungarvan
Youghal
Mallow
Fermoy
Ballyhaise
Ballybofey
Stranraer
Ballycastle
Ballyhaise
Ballybofey
Stranraer
Ballycastle
Ballyhaise
Ballybofey
Stranraer
Ballycastle

OS reference: 722343E 734994N
Eye level: 6.4m AOD
Direction of view: 244°
Distance to onshore substation site: 2.49 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 05/01/2024, 13:13:16

Enlargement Factor: 150% @A1

Figure 23.10.02 - Existing
Viewpoint 1: Bull Road, Bull Wall
Codling Wind Park

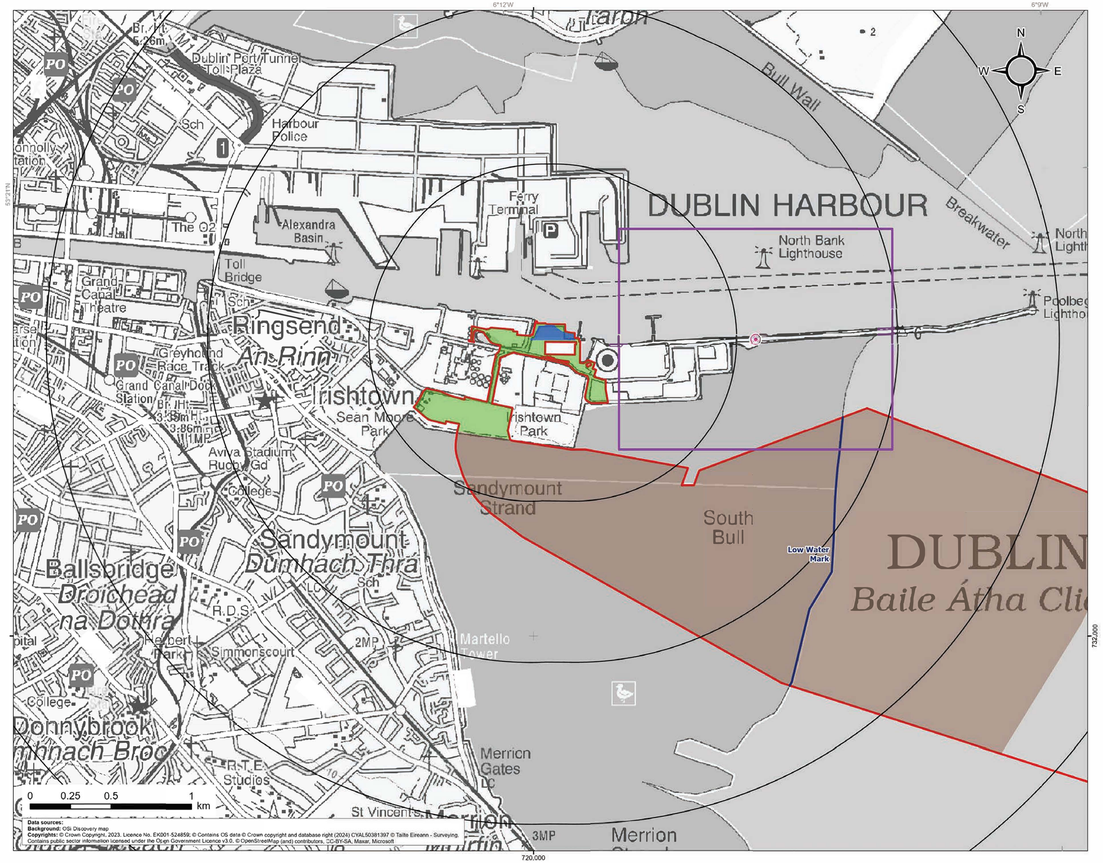
OS reference: 722343E 734994N
Eye level: 6.4m AOD
Direction of view: 244°
Distance to onshore substation site: 2.49 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 05/01/2024, 13:13:16

Enlargement Factor: 150% @A1

Figure 23.10.03 - Proposed Onshore Substation
Viewpoint 1: Bull Road, Bull Wall
Codling Wind Park



Data sources:
Background: OSi Discovery map
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Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 2. Great South Wall
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open (opinion and engineering) part of AECOM SLR	
		Website:	

Viewpoint Plan Figure 23.11.01
Viewpoint 2: Great South Wall

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code:	Size: A3	CRS:
PCOLB - PAB, CONSS, CABLES,PROP, INTERTIDAL,PILING - EWR,FIG.23.02	Scale: 1:19,000	EPSG 2157

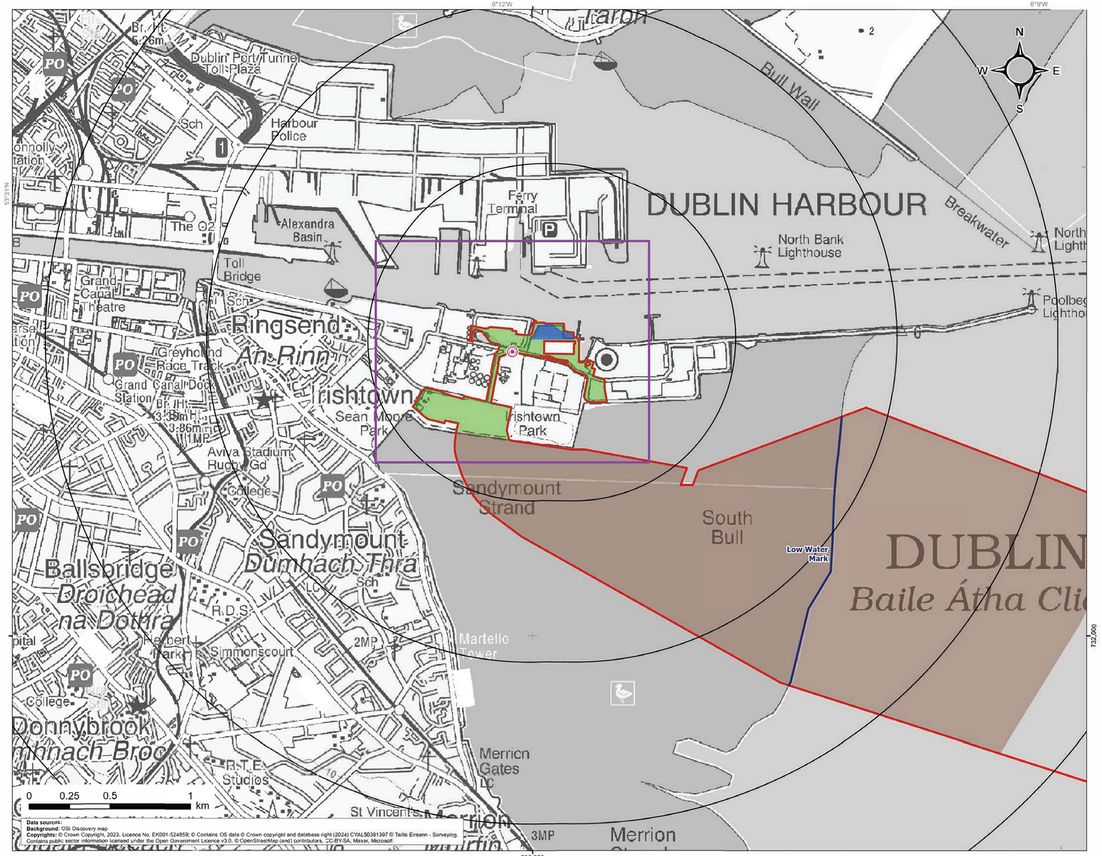
Rev.	Updates:	Date	By	Chk'd	Appr'd
00	Final for issue	2021/09/08	SP	OM/EA	CC

OS reference:	721377E 733844N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:**	150% @A1
Eye level:	4.7m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4		
Direction of view:	272°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m		
Distance to onshore substation site:	1.26 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	14/05/2022, 12:26:36		

Figure 23.11.02 - Existing
Viewpoint 2: Great South Wall
Codling Wind Park

OS reference:	721377E 733844N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:**	150% @A1
Eye level:	4.7m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4		
Direction of view:	272°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m		
Distance to onshore substation site:	1.26 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	14/05/2022, 12:26:36		

Figure 23.11.03 - Proposed Onshore Substation
Viewpoint 2: Great South Wall
Codling Wind Park



Data sources:
Background: OSi Discovery map
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Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 3. Pigeon House Road
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open	
	Website:	Part of SLR	

Viewpoint Plan Figure 23.12.01
Viewpoint 3: Pigeon House Road

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code: P0OLB - PAB_CONSS_CABLES.PROP_INTERTIDAL_PB_ING - EIAR.F10.23.02	Size: A3 Scale: 1:19,000	CRS: EPSG 2157

Rev:	Updates	Date	By:	Chk'd	App'd
00	Fine for issue	2024-08-08	SP	DR/EA	CC

EXISTING VIEW

OS reference: 719875E 733763N
Eye level: 5.2m AOD
Direction of view: 63°
Distance to onshore substation site: 0.27 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 14/05/2022, 13:48:20

Enlargement Factor: 150% @A1

Figure 23.12.02 - Existing
Viewpoint 3: Pigeon House Road
Codling Wind Park

TYPE 4 VISUALISATION

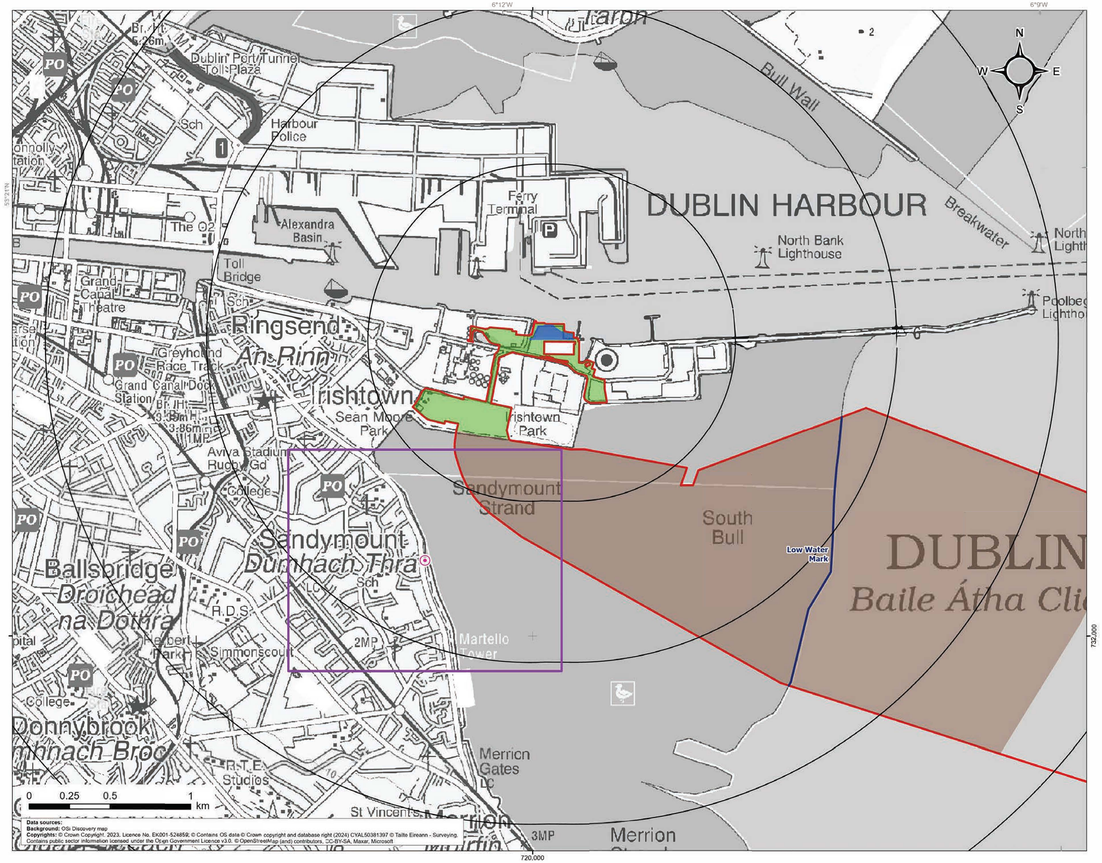
OS reference: 719875E 733763N
Eye level: 5.2m AOD
Direction of view: 63°
Distance to onshore substation site: 0.27 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 14/05/2022, 13:48:20

Enlargement Factor: 150% @A1

Figure 23.12.03 - Proposed Onshore Substation
Viewpoint 3: Pigeon House Road
Codling Wind Park



Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 4. Sandymount Promenade
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open / Website: PART OF SLR

Viewpoint Plan Figure 23.13.01
Viewpoint 4: Sandymount Promenade

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code:	Size: A3	CRS:
POOLB - PAB, CONSS, CABLES,PROP, INTERTIDAL,FB,IND - EIAR,PLG,23.02	Scale: 1:19,000	EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	OM/EA	CC

OS reference:	719332E 732469N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:**	150% @A1
Eye level:	4.2m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4		
Direction of view:	29°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m		
Distance to onshore substation site:	1.62 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	17/09/2022, 15:26:38		

Figure 23.13.02 - Existing
Viewpoint 4: Sandymount Promenade
Codling Wind Park

OS reference: 719332E 732469N
Eye level: 4.2m AOD
Direction of view: 29°
Distance to onshore substation site: 1.62 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 15:26:38

Enlargement Factor: 150% @A1

Figure 23.13.03 - Approximate extents of landfall and temporary access ramp construction areas
Viewpoint 4: Sandymount Promenade
Codling Wind Park

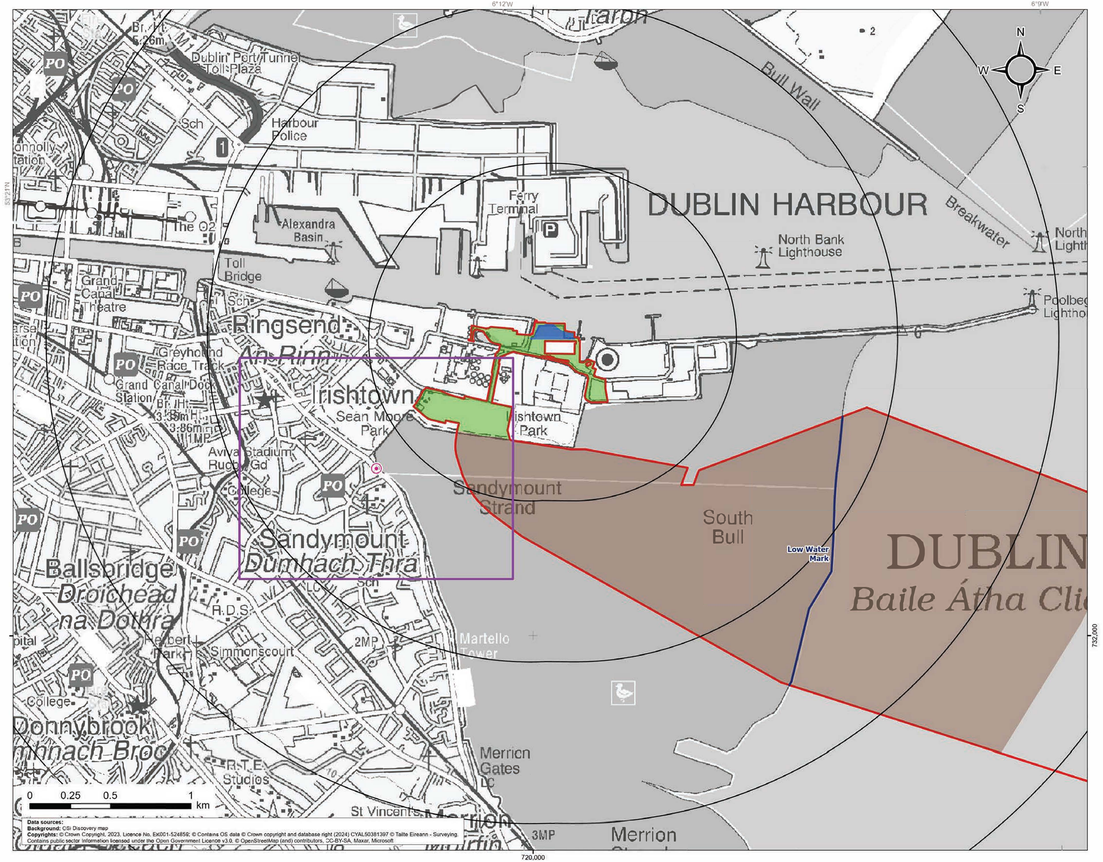
OS reference: 719332E 732469N
Eye level: 4.2m AOD
Direction of view: 29°
Distance to onshore substation site: 1.62 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 15:26:38

Enlargement Factor: 150% @A1

Figure 23.13.04 - Proposed Onshore Substation
Viewpoint 4: Sandymount Promenade
Codling Wind Park



Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 5. Sandymount Strand
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open	
	Website:	PART OF SLR	

Viewpoint Plan Figure 23.14.01
Viewpoint 5: Sandymount Strand

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code: FOOLB - PAB_CONSS_CABLES PROP_INTERTIDAL PILING - EIAR.FIG.23.02

Size: A3
Scale: 1:19,000
CRS: EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final for Issue	2021/09/08	SP	DM/E.A	CC

OS reference: 719027E 733038N
Eye level: 4.6m AOD
Direction of view: 52°
Distance to onshore substation site: 1.38 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 15:59:16

Enlargement Factor: 150% @A1

Figure 23.14.02 - Existing
Viewpoint 5: Sandymount Strand
Codling Wind Park

OS reference: 719027E 733038N
Eye level: 4.6m AOD
Direction of view: 52°
Distance to onshore substation site: 1.38 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 15:59:16

Enlargement Factor: 150% @A1

Figure 23.14.03 - Approximate extents of landfall and temporary access ramp construction areas
Viewpoint 5: Sandymount Strand
Codling Wind Park

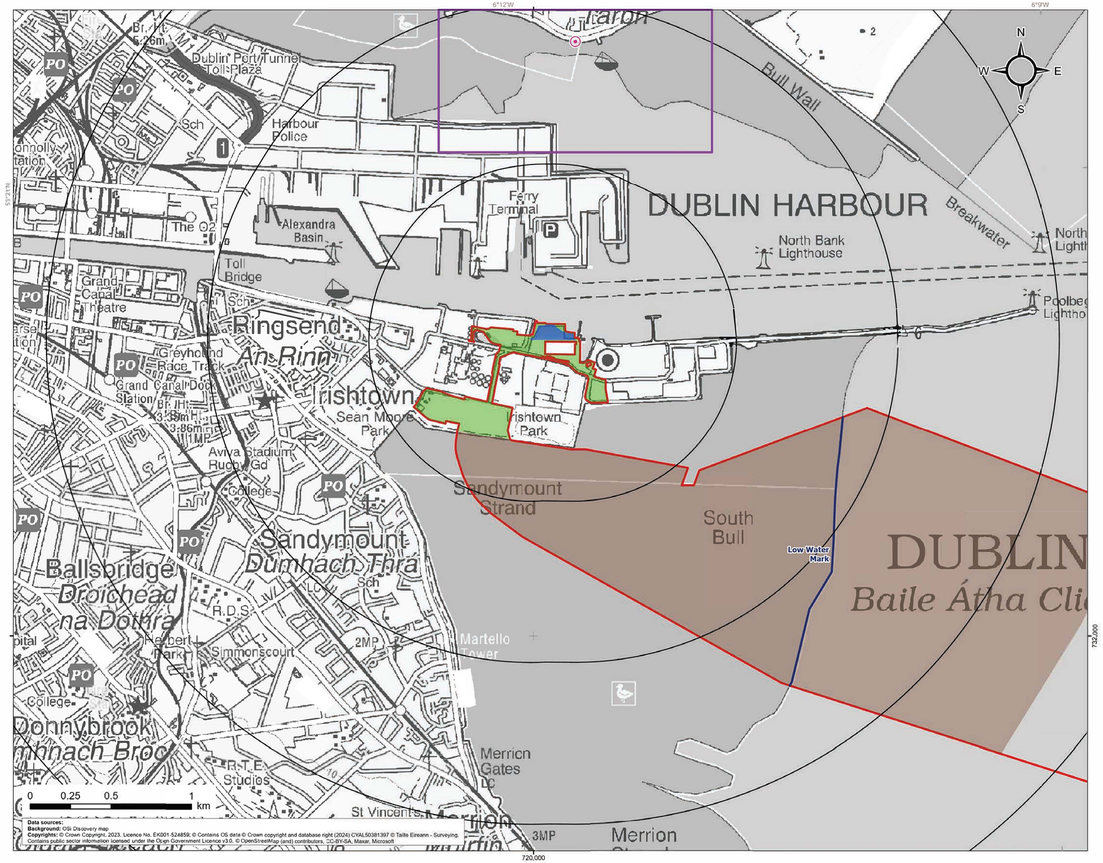
OS reference: 719027E 733038N
Eye level: 4.6m AOD
Direction of view: 52°
Distance to onshore substation site: 1.38 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 15:59:16

Enlargement Factor: 150% @A1

Figure 23.14.04 - Proposed Onshore Substation
Viewpoint 5: Sandymount Strand
Codling Wind Park



Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 6. Clontarf
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open (opinnovation) PART OF AECOM SLR	Website:

Viewpoint Plan Figure 23.15.01
Viewpoint 6: Clontarf

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code:	Size: A3	CRS:
PCOLB - PAB; CONBS; CABLES;PROP; INTERTIDAL;FB;IND - EWR;PIG;23.02	Scale: 1:19,000	EPSG 2157

Rev.	Updates:	Date	By	Chk'd	App'd
00	Final for issue	2021/09/08	SP	OM/EA	CC

OS reference: 720259E 735691N
Eye level: 2.5m AOD
Direction of view: 185°
Distance to onshore substation site: 1.81 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 05/01/2024, 10:07:51

Enlargement Factor: 150% @A1

Figure 23.15.02 - Existing
Viewpoint 6: Clontarf
Codling Wind Park

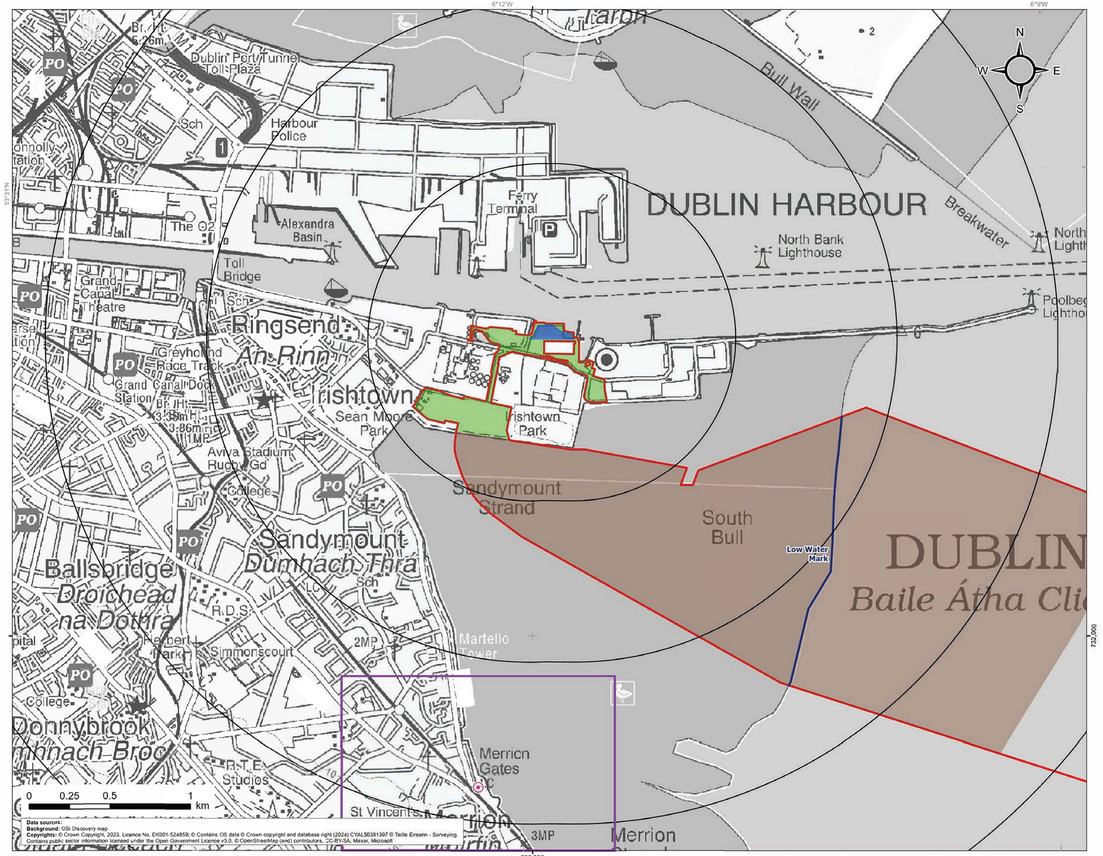
OS reference: 720259E 735691N
Eye level: 2.5m AOD
Direction of view: 185°
Distance to onshore substation site: 1.81 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 05/01/2024, 10:07:51

Enlargement Factor: 150% @A1

Figure 23.15.03 - Proposed Onshore Substation
Viewpoint 6: Clontarf
Codling Wind Park



Data sources:
Background: OSi Discovery map.
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Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 7. Strand Road
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open (a) Website: part of SLR

Viewpoint Plan Figure 23.16.01
Viewpoint 7: Strand Road

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code:	Size: A3	CRS:
PODLB - PAB_CONSS_CABLES_PROP_INTERTIDAL_PB_IND - EIAR_FIG.23.02	Scale: 1:19,000	EPSG 2157

Rev.	Updates	Date	By	Chk'd	App'd
00	Final Issue(s)	2021-06-08	SP	DRDB	CC

OS reference: 719663E 731064N
Eye level: 3.4m AOD
Direction of view: 9°
Distance to onshore substation site: 2.86 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 14:22:51

Enlargement Factor: 150% @A1

Figure 23.16.02 - Existing Viewpoint 7: Strand Road
Codling Wind Park

OS reference:	719663E 731064N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:** 150% @A1
Eye level:	3.4m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4	
Direction of view:	9°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m	
Distance to onshore substation site:	2.86 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	17/09/2022, 14:22:51	

Figure 23.16.03 - Approximate extents of landfall and temporary access ramp construction areas
Viewpoint 7: Strand Road
Codling Wind Park

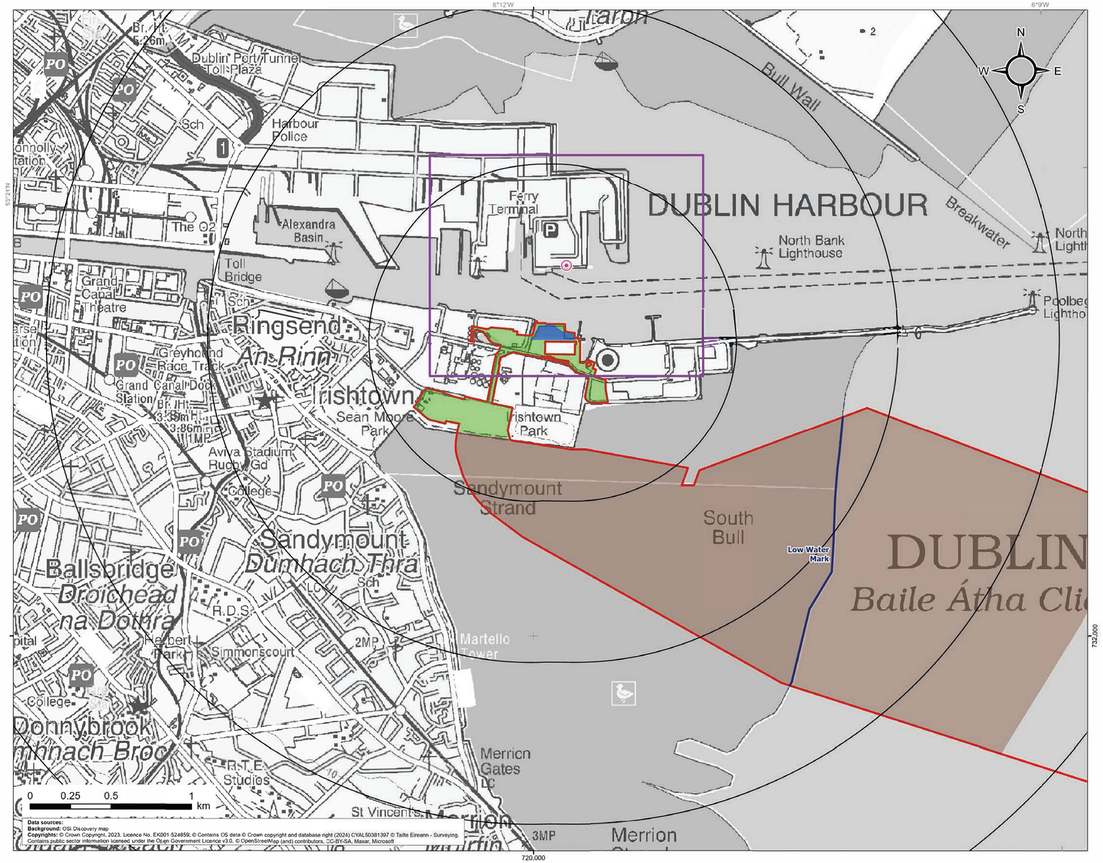
OS reference: 719663E 731064N
Eye level: 3.4m AOD
Direction of view: 9°
Distance to onshore substation site: 2.86 km

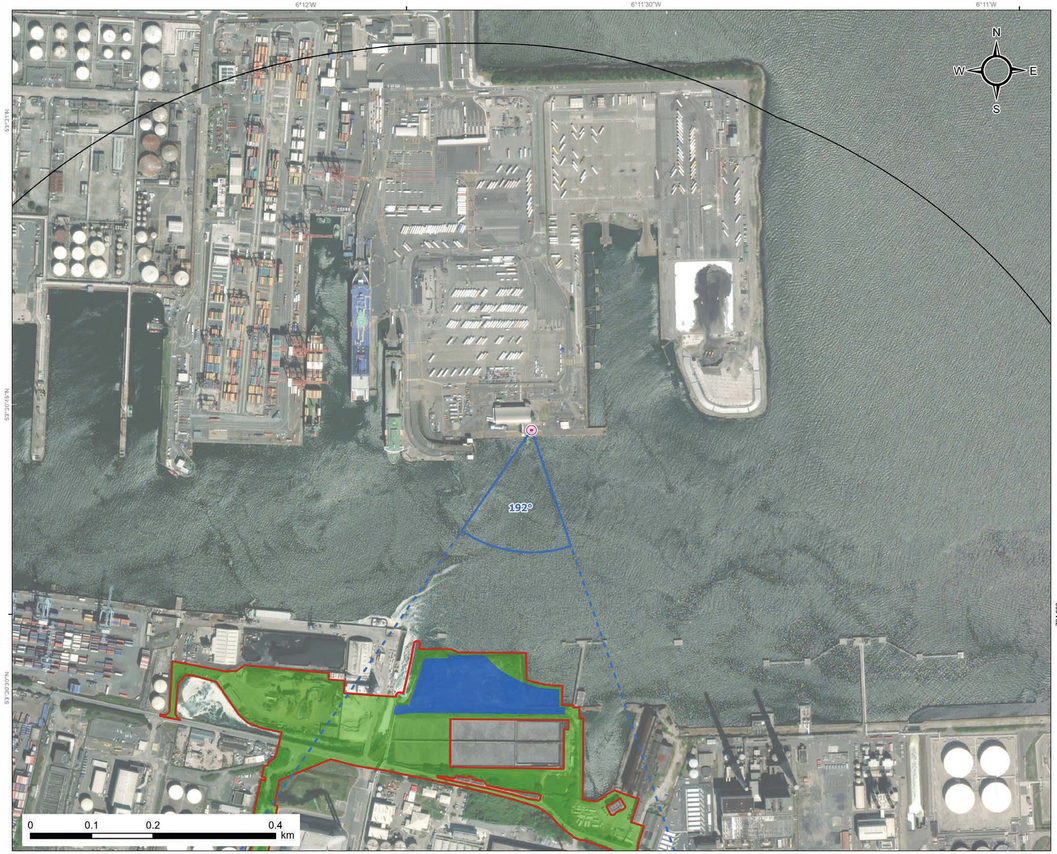
Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 17/09/2022, 14:22:51

Enlargement Factor: 150% @A1

Figure 23.16.04 - Proposed onshore Substation
Viewpoint 7: Strand Road
Codling Wind Park





Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 8. Dublin Port Ferry Terminal 1
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: Website:	open (ophmoor) part of SLR

Viewpoint Plan Figure 23.17.01
Viewpoint 8: Dublin Port Ferry Terminal 1

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code: PCOLB - PAB; CONSS; CABLES; PROP; INTERTIDAL; FB; IND - EIAR; PIU; 23.02

Size: A3
Scale: 1:19,000
CRS: EPSG 2157

Rev.	Updates	Date	By	Chk'd	Appr'd
00	Final for issue	2021/09/08	SP	OM/EA	CC

OS reference: 720204E 734301N
Eye level: 4.8m AOD
Direction of view: 192°
Distance to onshore substation site: 0.43 km

Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 21/11/2023, 16:07:35

Enlargement Factor: 150% @A1

Figure 23.17.02 - Existing
Viewpoint 8: Dublin Ferry Terminal 1
Codling Wind Park

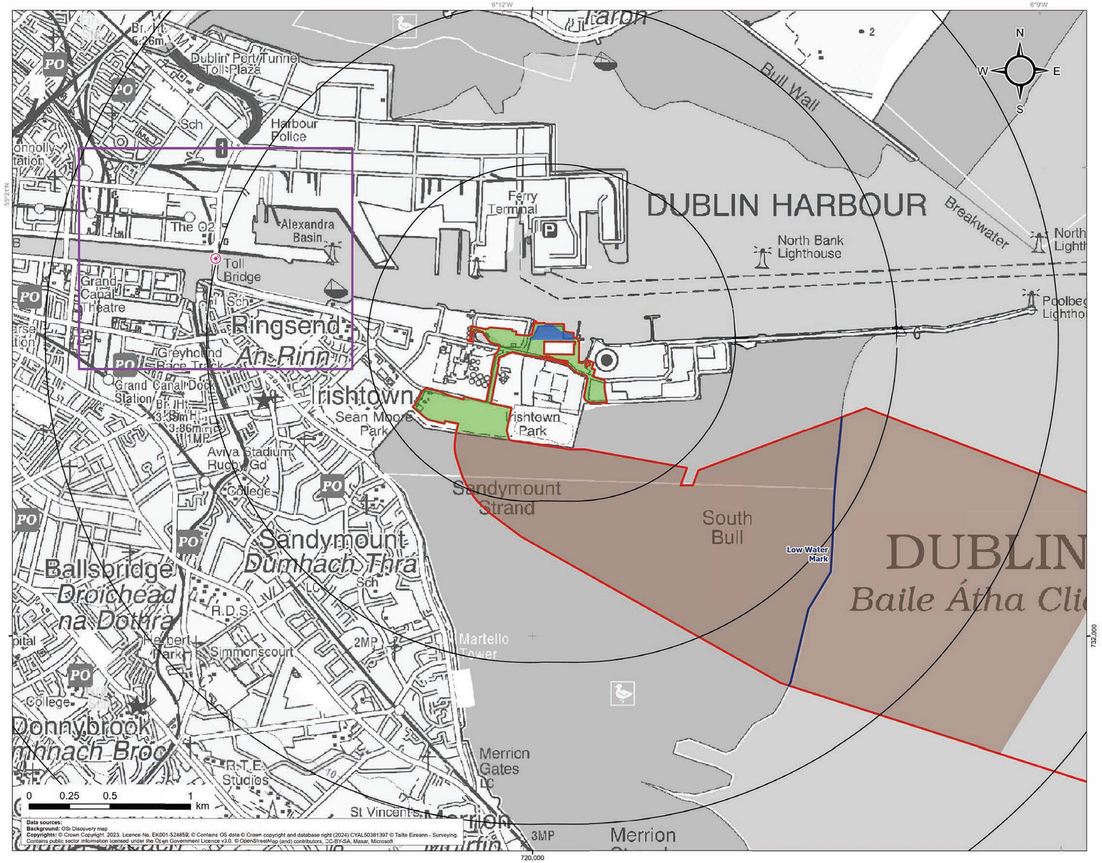
OS reference: 720204E 734301N
Eye level: 4.8m AOD
Direction of view: 192°
Distance to onshore substation site: 0.43 km

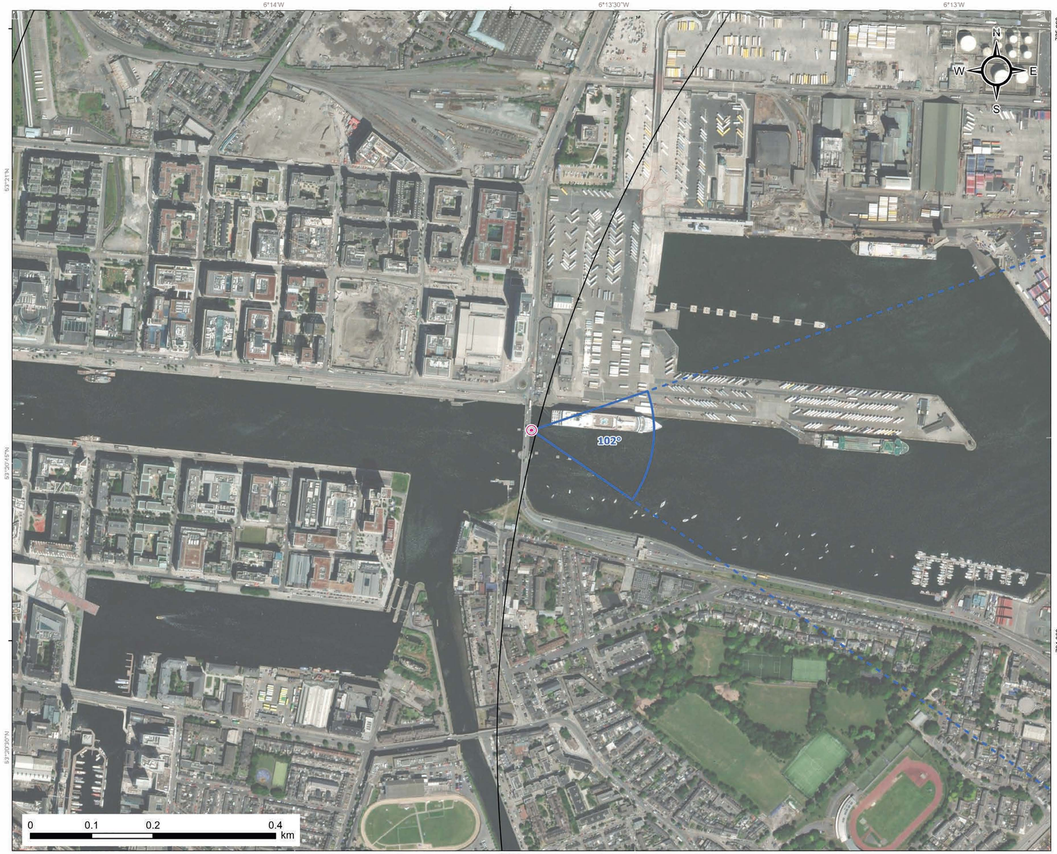
Horizontal field of view: 53.5° (planar projection)
Principal distance: 812.5 mm
Paper size: 841 x 297 mm (half A1)
Correct printed image size: 820 x 260 mm

Camera: Canon EOS 6D
Lens: Canon EF 50mm f/1.4
Camera height: 1.5 m
Date and time: 21/11/2023, 16:07:35

Enlargement Factor: 150% @A1

Figure 23.17.03 - Proposed Onshore Substation
Viewpoint 8: Dublin Ferry Terminal 1
Codling Wind Park





Legend

- Onshore substation (operational boundary)
- 1km radii
- Onshore development area
- Landfall area
- Low water mark
- Planning application boundary
- VP 9. Tom Clarke Bridge
- Direction of view (53.5 degree field of view)

codling wind park	Project: Codling Wind Park	Contractor: open	
		Website:	PART OF SLR

Viewpoint Plan Figure 23.18.01
Viewpoint 9: Tom Clarke Bridge

CWP doc. number: CWP-OPE-ENG-08-01-MAP-1038

Internal descriptive code:	Size: A3	CRS:
POOLB - PAB - CONSS - CABLES - PROF - INTERTIDAL_PB.IN3 - EWR.PIG.23.02	Scale: 1:19,000	EPSG 2157

Rev.	Updates:	Date	By	Chk'd	Appr'd
00	Final for issue	2021/09/08	SP	OM/EA	CC

OS reference:	718035E 734344N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:**	150% @A1
Eye level:	7.0m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4		
Direction of view:	102°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m		
Distance to onshore substation site:	2.13 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	21/09/2023, 14:11:35		

Figure 23.18.02 - Existing
Viewpoint 9: Tom Clarke Bridge
Codling Wind Park

OS reference:	718035E 734344N	**Horizontal field of view:**	53.5° (planar projection)	**Camera:**	Canon EOS 6D	**Enlargement Factor:**	150% @A1
Eye level:	7.0m AOD	**Principal distance:**	812.5 mm	**Lens:**	Canon EF 50mm f/1.4		
Direction of view:	102°	**Paper size:**	841 x 297 mm (half A1)	**Camera height:**	1.5 m		
Distance to onshore substation site:	2.13 km	**Correct printed image size:**	820 x 260 mm	**Date and time:**	21/09/2023, 14:11:35		

Figure 23.18.03 - Proposed Onshore Substation
Viewpoint 9: Tom Clarke Bridge
Codling Wind Park