502031 E,
878007 N

10km 0 10km

SCALE 1 : 250,000

597898 E,
878007 N

CARRICK

KILLYBEGS

KILCAR

DONEGAL

ATLANTIC OCEAN
An tAigéan Atlantach

DONEGAL BAY
Bá Dhún na nGall

AREA A, 157.62 km^2

AREA B, 98.41 km^2

AREA C, 94.67 km^2

BUNDORAN

GRANGE

AREA D, 103.85 km^2

AREA E, 96.50 km^2

SLIGO BAY
Cuan Shligigh

SLIGO

EASKY

TEMPLEBOY

BALLYSADARE

BALLYCASTLE

KILLALA BAY
Cuan Chill Ala

BALLINA

502031 E,
821016 N

597898 E,
821016 N

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA
ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM)
DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN ADCP SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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Uisce Éireann Irish Water
UISCE ÉIREANN
Colvill House, 24-26 Talbot St. Dublin 1.
Tel. 1890 278 278 Web. www.water.ie

TITLE

OVERALL
PROPOSED MUL MAP

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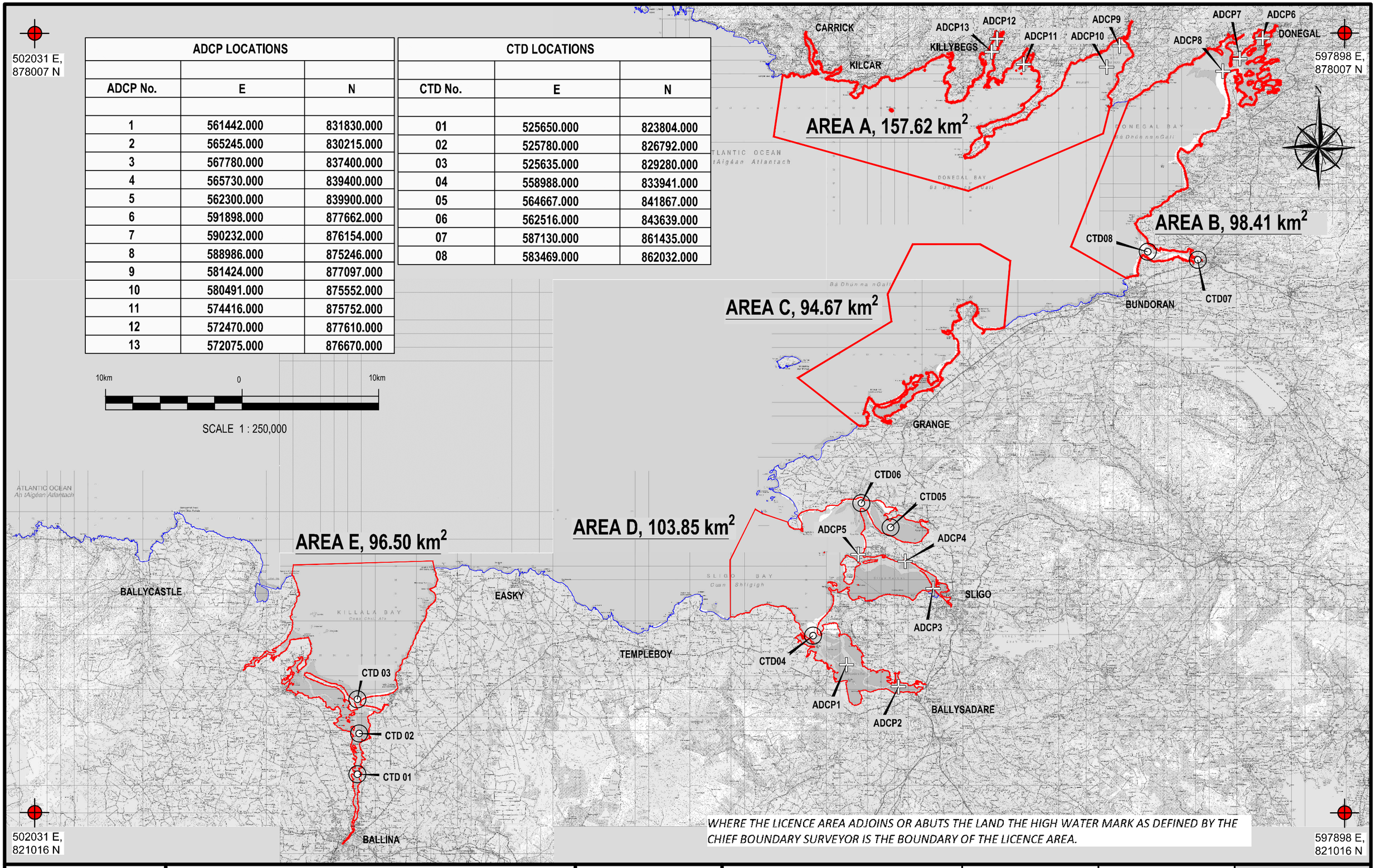
SCALES	DRAWN	CHECKED	APPROVED
1 : 250,000	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-100

REV 2

ADCP LOCATIONS		
ADCP No.	E	N
1	561442.000	831830.000
2	565245.000	830215.000
3	567780.000	837400.000
4	565730.000	839400.000
5	562300.000	839900.000
6	591898.000	877662.000
7	590232.000	876154.000
8	588986.000	875246.000
9	581424.000	877097.000
10	580491.000	875552.000
11	574416.000	875752.000
12	572470.000	877610.000
13	572075.000	876670.000

CTD LOCATIONS		
CTD No.	E	N
01	525650.000	823804.000
02	525780.000	826792.000
03	525635.000	829280.000
04	558988.000	833941.000
05	564667.000	841867.000
06	562516.000	843639.000
07	587130.000	861435.000
08	583469.000	862032.000



WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM) DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

INDICATIVE VESSEL BASED ADCP SURVEY LOCATIONS

INDICATIVE VESSEL BASED CTD SURVEY LOCATIONS

(ADCP AND CTD LOCATIONS SHOWN ARE INDICATIVE ONLY AND ACTUAL ADCP AND CTD LOCATIONS MAY VARY FROM THOSE SHOWN)

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN ADCP SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

OVERALL
SITE LOCATION MAP

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SCALES	DRAWN	CHECKED	APPROVED
1 : 250,000	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-101

REV 2

548401 E, 879256 N

586701 E, 879256 N

AREA A, 157.62 km²

ATLANTIC OCEAN
An tAigéan Atlantach

DONEGAL BAY
Bá Dhún na nGall

SLIEVE LEAGUE
CARRICK
KILCAR
KILLYBEGS
Na Cealla Beaga
Fintragh Bay
McSwyne's Bay
INVER BAY
INVER
Inbhir Abhann Beag
INVER BAY
Bá Inbhir
Carrigan Head
Meenlecknagarvan Hill
Slieve League
Dooish Point
St. John's Point
Rossnowlagh
Donegal Bay Waterworld
Murvagh Beach
Lough Eske
Donegal Airport
Carrigfad
Ballyshannon
Rathmullan
Wardtown Strand
River Eirne
An Eirne
BUNDORAN
Bun Dobhráin
Tullaghan
An Tulachán
Mullaghmore
An Mullach Mór
Kinlough
Cúirt Locha
Glencolumbkille
Port Ectromn
Carrick
An Charraig
Teelin
Kilcar
Cill Chartaigh
Killybegs
Na Cealla Beaga
Dunkineely
Dún Cionnfhaola
Inver
Inbhir Abhann Beag
Mountcharles
Cnoc Uí Fhiaich
Donegal
Dún na nGall

5km 0 5km

SCALE 1 : 100,000

548401 E, 855647 N

586701 E, 855647 N

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA
ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM)
DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

PROPOSED MUL
MAP A

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SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE: 12.01.2024	DATE: 12.01.2024	DATE: 12.01.2024

DRAWING No. 20745-FL-102

REV 2

548401 E, 879256 N

586701 E, 879256 N

ADCP9

ADCP10

ADCP11

ADCP12

ADCP13

INVER

CARRICK

KILCAR

KILLYBEGS

SLIEVE LEAGUE

INVER BAY

Bá Inbhir

McSwyne's Bay

Fintragh Bay

DONEGAL BAY

Bá Dhún na nGall

ATLANTIC OCEAN

An tAigéan Atlantach

AREA A, 157.62 km^2

BUNDORAN

Bun Dobhráin

ADCP LOCATIONS		
ADCP No.	E	N
9	581424.000	877097.000
10	580491.000	875552.000
11	574416.000	875752.000
12	572470.000	877610.000
13	572075.000	876670.000

5km 0 5km

SCALE 1 : 100,000

548401 E, 855647 N

586701 E, 855647 N

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA
ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM)
DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

INDICATIVE VESSEL BASED ADCP SURVEY LOCATIONS

INDICATIVE VESSEL BASED CTD SURVEY LOCATIONS

{ ADCP AND CTD LOCATIONS SHOWN ARE INDICATIVE ONLY AND ACTUAL ADCP AND CTD LOCATIONS MAY VARY FROM THOSE SHOWN }

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

SITE LAYOUT MAP A

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SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE: 12.01.2024	DATE: 12.01.2024	DATE: 12.01.2024

DRAWING No. 20745-FL-103

REV 2

560841 E, 879271 N

598725 E, 879271 N

AREA B, 98.41 km²

5km 0 5km

SCALE 1 : 100,000

560841 E, 855791 N

598725 E, 855791 N

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA
ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM)
DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

PROPOSED MUL
MAP B

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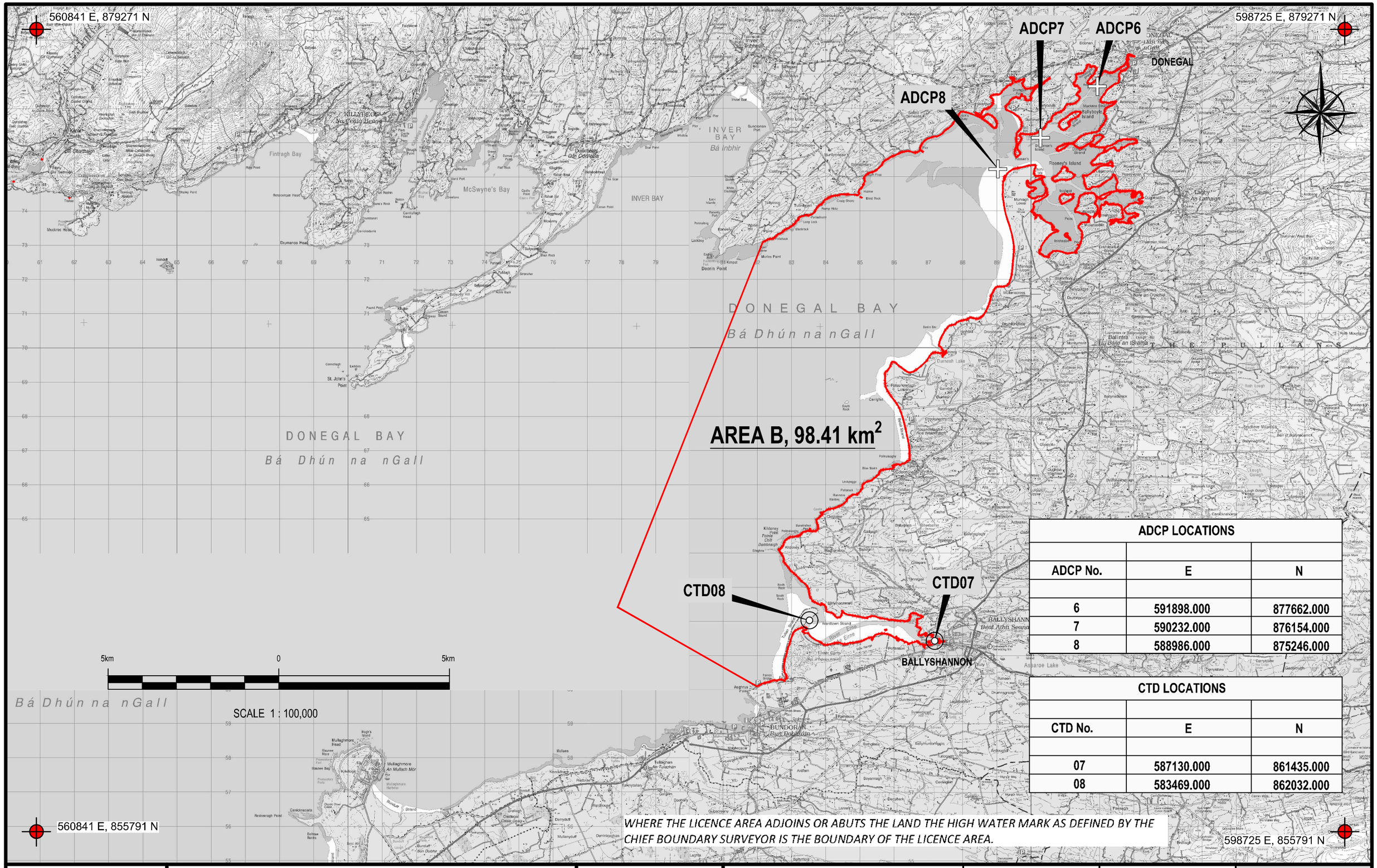
SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-104

REV 2



ADCP LOCATIONS		
ADCP No.	E	N
6	591898.000	877662.000
7	590232.000	876154.000
8	588986.000	875246.000

CTD LOCATIONS		
CTD No.	E	N
07	587130.000	861435.000
08	583469.000	862032.000

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM) DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

INDICATIVE VESSEL BASED ADCP SURVEY LOCATIONS

INDICATIVE VESSEL BASED CTD SURVEY LOCATIONS

(ADCP AND CTD LOCATIONS SHOWN ARE INDICATIVE ONLY AND ACTUAL ADCP AND CTD LOCATIONS MAY VARY FROM THOSE SHOWN)

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

SITE LAYOUT MAP B

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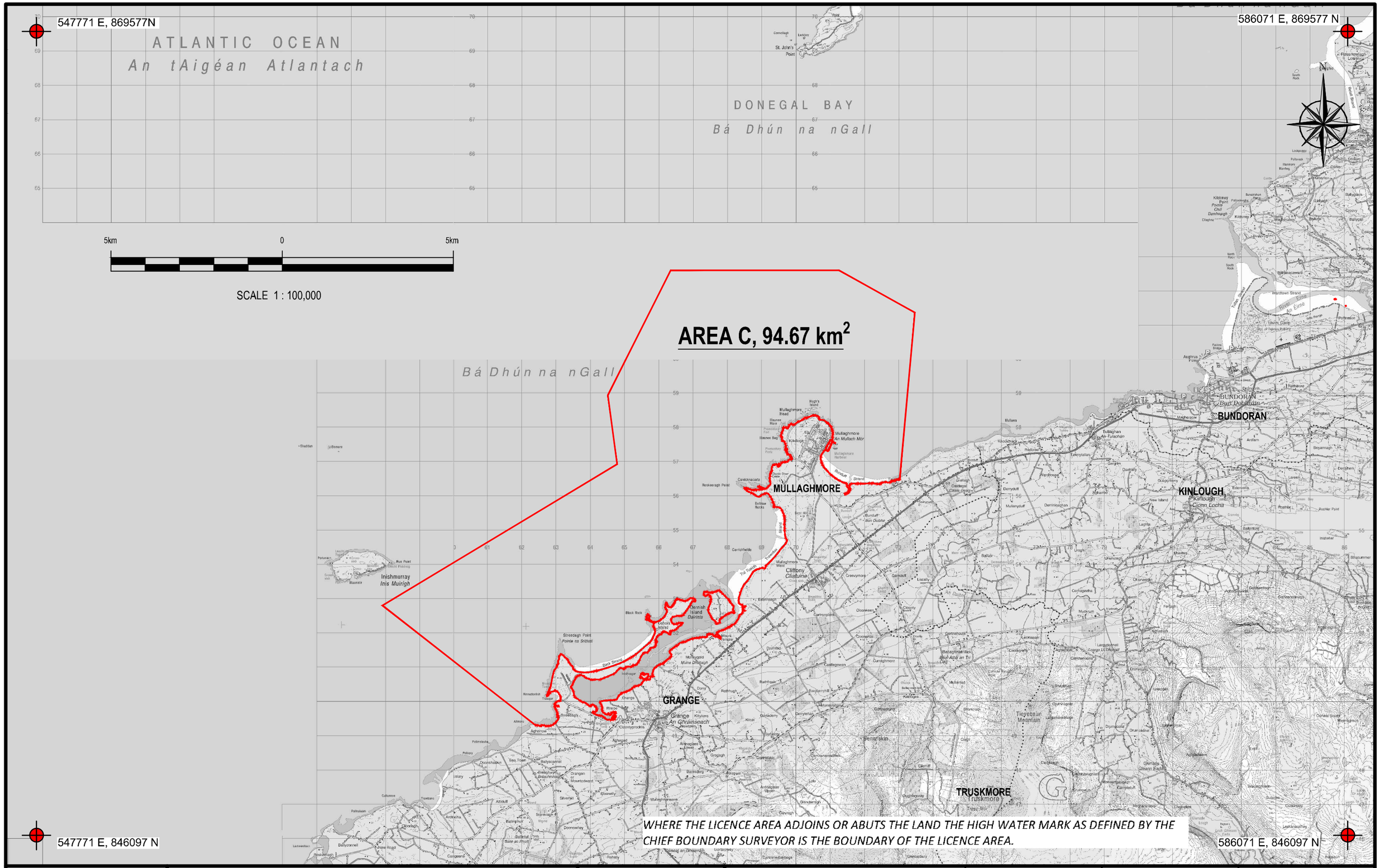
SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-105

REV 2



WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
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FILE REF: MUL240012

LEGEND

MUL AREA ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM) DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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Colvill House, 24-26 Talbot St. Ext. Dublin 1.
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TITLE

PROPOSED MUL
MAP C

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SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-106 REV 2

547771 E, 869577N

586071 E, 869577 N

ATLANTIC OCEAN
An tAigéan Atlantach

DONEGAL BAY
Bá Dhún na nGall

5km 0 5km

SCALE 1 : 100,000

AREA C, 94.67 km^2

Bá Dhún na nGall

MULLAGHMORE

BUNDORAN
Bun Dobhráin

KINLOUGH
Cionn Locha

GRANGE
An Ghráinseach

TRUSKMORE
Truskmore

Inishmurray
Inis Muiríoch

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

547771 E, 846097 N

586071 E, 846097 N

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA
ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM)
DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

INDICATIVE VESSEL BASED ADCP SURVEY LOCATIONS

INDICATIVE VESSEL BASED CTD SURVEY LOCATIONS

{ ADCP AND CTD LOCATIONS SHOWN ARE INDICATIVE ONLY AND ACTUAL ADCP AND CTD LOCATIONS MAY VARY FROM THOSE SHOWN }

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

SITE LAYOUT MAP C

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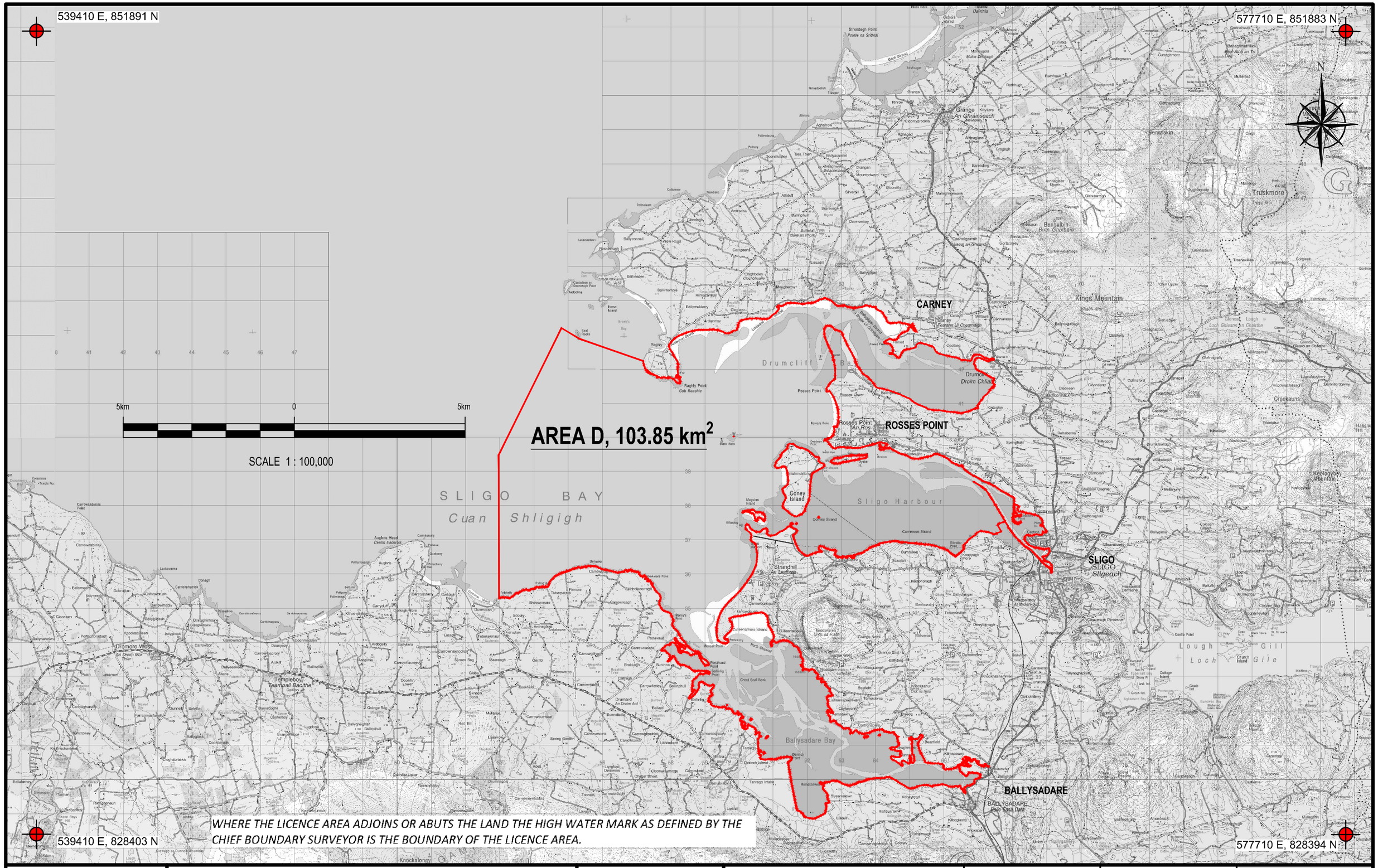
SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE: 12.01.2024	DATE: 12.01.2024	DATE: 12.01.2024

DRAWING No. 20745-FL-107

REV 2



WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM) DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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Colvill House, 24-26 Talbot St. Ext. Dublin 1.
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TITLE

PROPOSED MUL
MAP D

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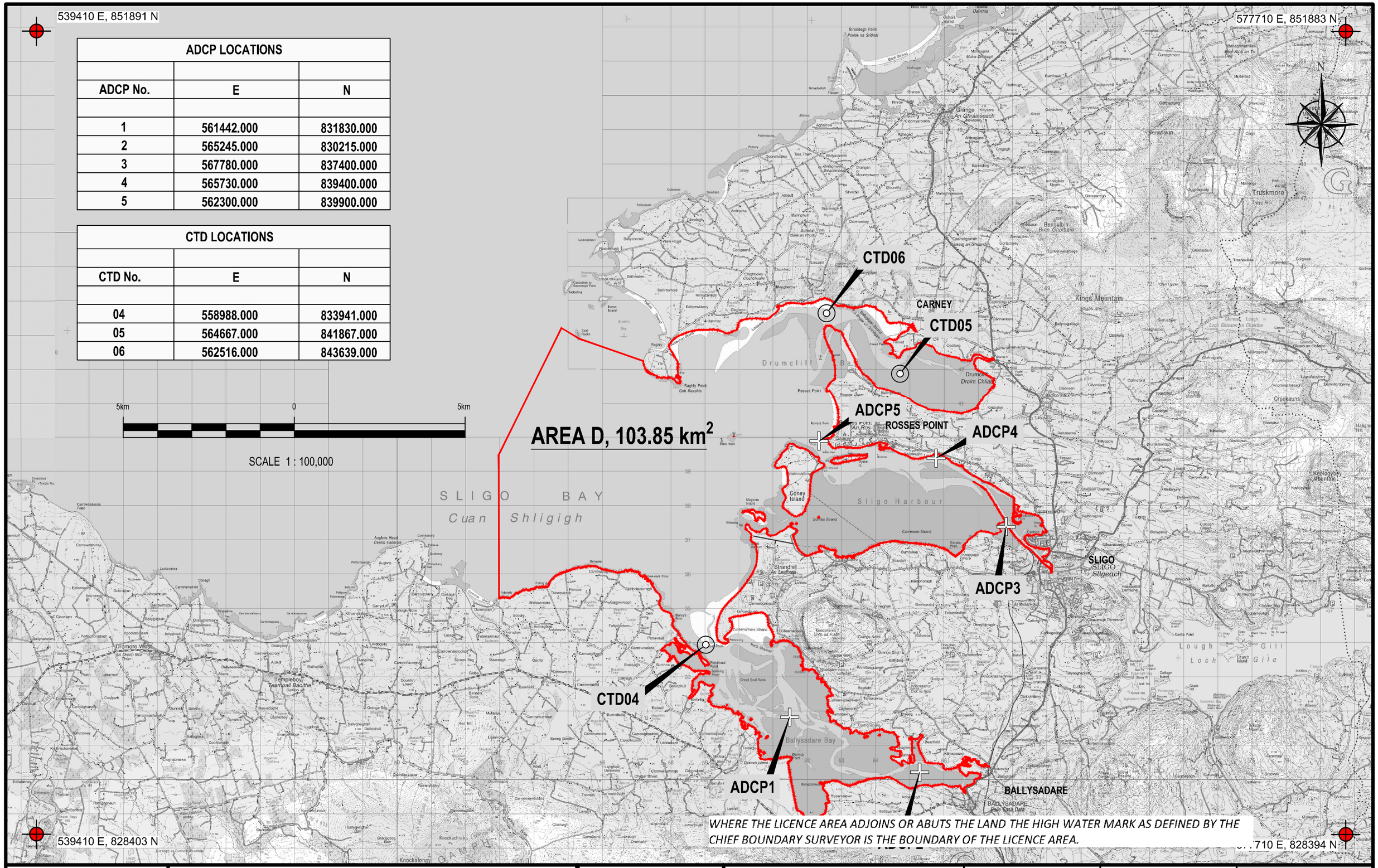
SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-108

REV 2



ADCP LOCATIONS		
ADCP No.	E	N
1	561442.000	831830.000
2	565245.000	830215.000
3	567780.000	837400.000
4	565730.000	839400.000
5	562300.000	839900.000

CTD LOCATIONS		
CTD No.	E	N
04	558988.000	833941.000
05	564667.000	841867.000
06	562516.000	843639.000

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

FILE REF: MUL240012

LEGEND

MUL AREA ALIGNED WITH HWM CBS

HIGH WATER MARK (HWM) DEFINED BY CHIEF BOUNDARY SURVEYOR

ITM GRID COORDINATE INTERSECT

INDICATIVE VESSEL BASED ADCP SURVEY LOCATIONS

INDICATIVE VESSEL BASED CTD SURVEY LOCATIONS

(ADCP AND CTD LOCATIONS SHOWN ARE INDICATIVE ONLY AND ACTUAL ADCP AND CTD LOCATIONS MAY VARY FROM THOSE SHOWN)

GEODETIC PARAMETERS :

MAPPING PROJECTION
IRENET95
IRISH TRANSVERSE MERCATOR (ITM)

PROJECT TITLE

UISCE ÉIREANN NON-INTRUSIVE SURVEYS

REV	DATE	DESCRIPTION	D	C	A
2	13.11.25	UPDATED TO LATEST GUIDANCE (Version No.7 05/11/2025)	DS	RC	CD
1	13.05.24	HWM & CO-ORDS ADDED	DS	SA	CD

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TITLE

SITE LAYOUT MAP D

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SCALES	DRAWN	CHECKED	APPROVED
1 : 100,000 @ A3	A. McIntyre	C. Dennehy	J.Power
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-109

REV 2

507107 E, 842630 N

545400 E, 842630 N

5km 0 5km

SCALE 1 : 100,000

N

AREA E, 96.50 km^2

KILLALA BAY
Cuan Chill Ala

BALLYCASTLE
Baile an Chaisil

KILLILA

INISHCRONE
Inis Crabhann

BALLINA
Béal an Átha

Downpatrick Head
Ceann Dhún Pádraig

Croaghaun

Lackan Bay

Kilcummin Head

Stonepark Point

Lenadoon Point
Gob Léana Dúna

Easky
Iascaigh

Dromore West
An Droim Mór Thiar

Easky Lough
Loch Iascaí

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

507107 E, 819178 N

545400 E, 819178 N

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
for NICHOLAS O'DWYER LTD.

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LEGEND

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ALIGNED WITH HWM CBS

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TITLE

PROPOSED MUL
MAP E

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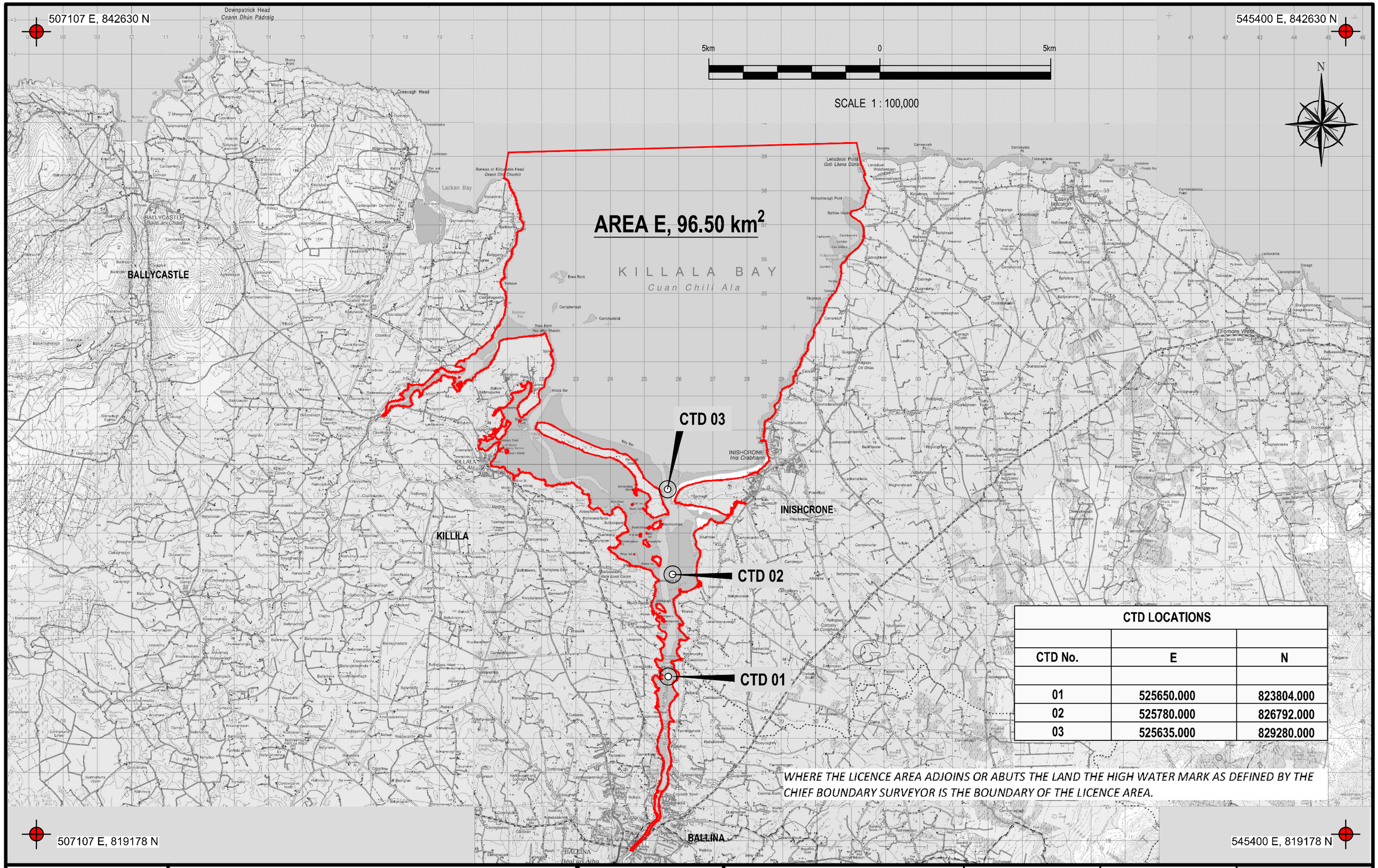
	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-110

REV 2



CTD LOCATIONS		
CTD No.	E	N
01	525650.000	823804.000
02	525780.000	826792.000
03	525635.000	829280.000

WHERE THE LICENCE AREA ADJOINS OR ABUTS THE LAND THE HIGH WATER MARK AS DEFINED BY THE CHIEF BOUNDARY SURVEYOR IS THE BOUNDARY OF THE LICENCE AREA.

PREPARED BY:

Conor Dennehy MSC PHD, MCIWEM C.WEM
Project Engineer,
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MAPPING PROJECTION
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TITLE

SITE LAYOUT MAP E

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	DATE 12.01.2024	DATE 12.01.2024	DATE 12.01.2024

DRAWING No. 20745-FL-111 REV 2

MARITIME USAGE LICENCE (MUL) APPLICATION
MUL240012

DRAWING LIST - CONTENTS

DRAWING No.	DRAWING TITLE
20745-FL-100	OVERALL PROPOSED MUL MAP
20745-FL-101	OVERALL SITE LOCATION MAP
20745-FL-102	PROPOSED MUL MAP A
20745-FL-103	SITE LAYOUT MAP A
20745-FL-104	PROPOSED MUL MAP B
20745-FL-105	SITE LAYOUT MAP B
20745-FL-106	PROPOSED MUL MAP C
20745-FL-107	SITE LAYOUT MAP C
20745-FL-108	PROPOSED MUL MAP D
20745-FL-109	SITE LAYOUT MAP D
20745-FL-110	PROPOSED MUL MAP E
20745-FL-111	SITE LAYOUT MAP E

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