

Topic Chapter: Biodiversity

Figure GC 8.1
UWF Grid Connection Location Map

Map Number:
Map 1 of 1


Legend:

■ ■ ■ UWF Grid Connection - 110kV UGC

■ UWF Grid Connection -
Mountphilips Substation Site

Project:
UWF Grid Connection (2019)

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Legend:

Subject Development:

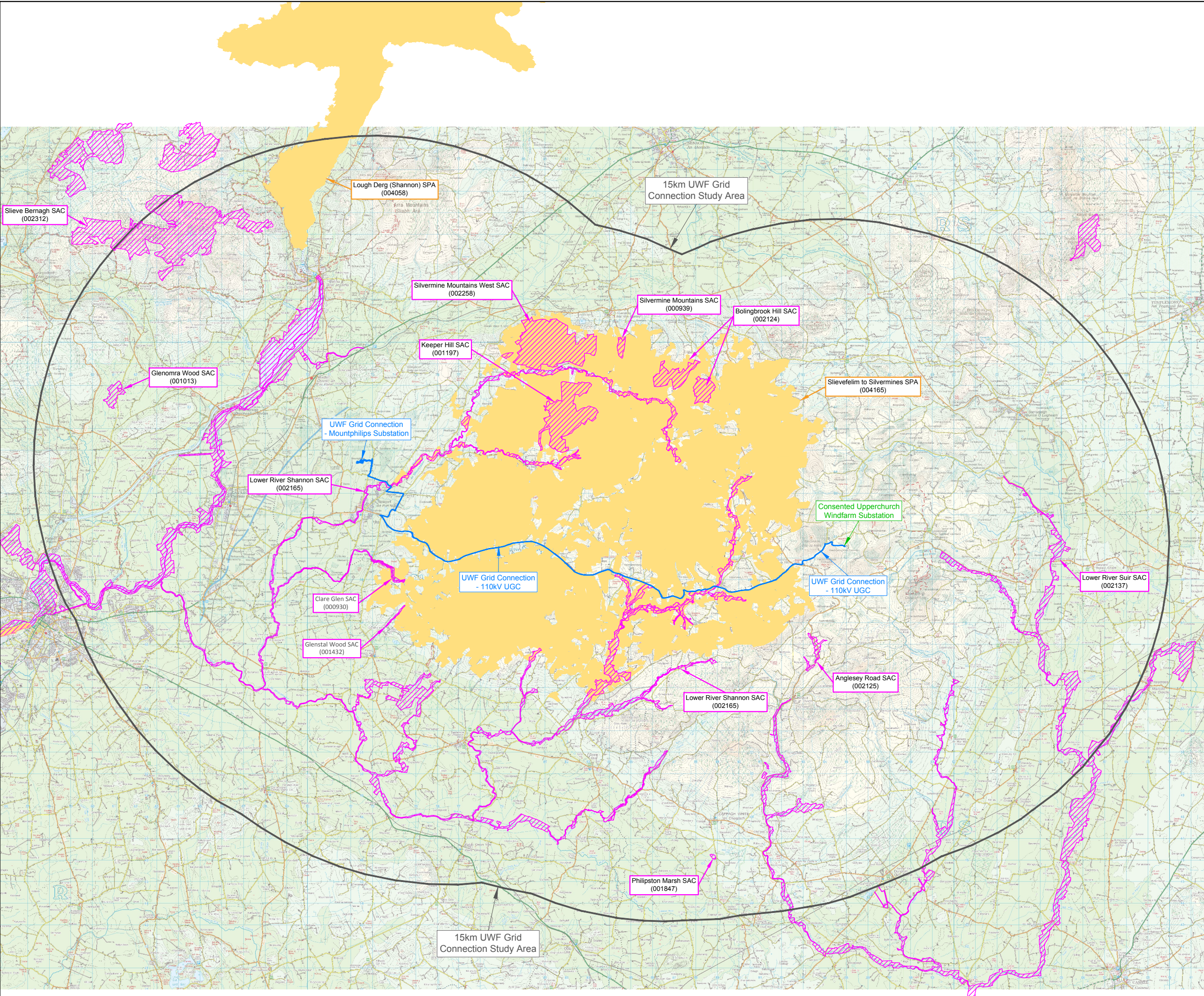
- UWF Grid Connection Construction Works Area

Study Area Extents :

- 15km Study Area:
 - UWF Grid Connection Construction Works Area

Survey Results :

- Special Areas of Conservation
- Special Protection Areas



Project:
UWF Grid Connection (2019)

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Legend:

Study Area Extents :

- UWF Grid Connection Construction Works Area

Cumulative Evaluation Projects :

- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area
- UWF Replacement Forestry Construction Works Area

UWF Other Activities:

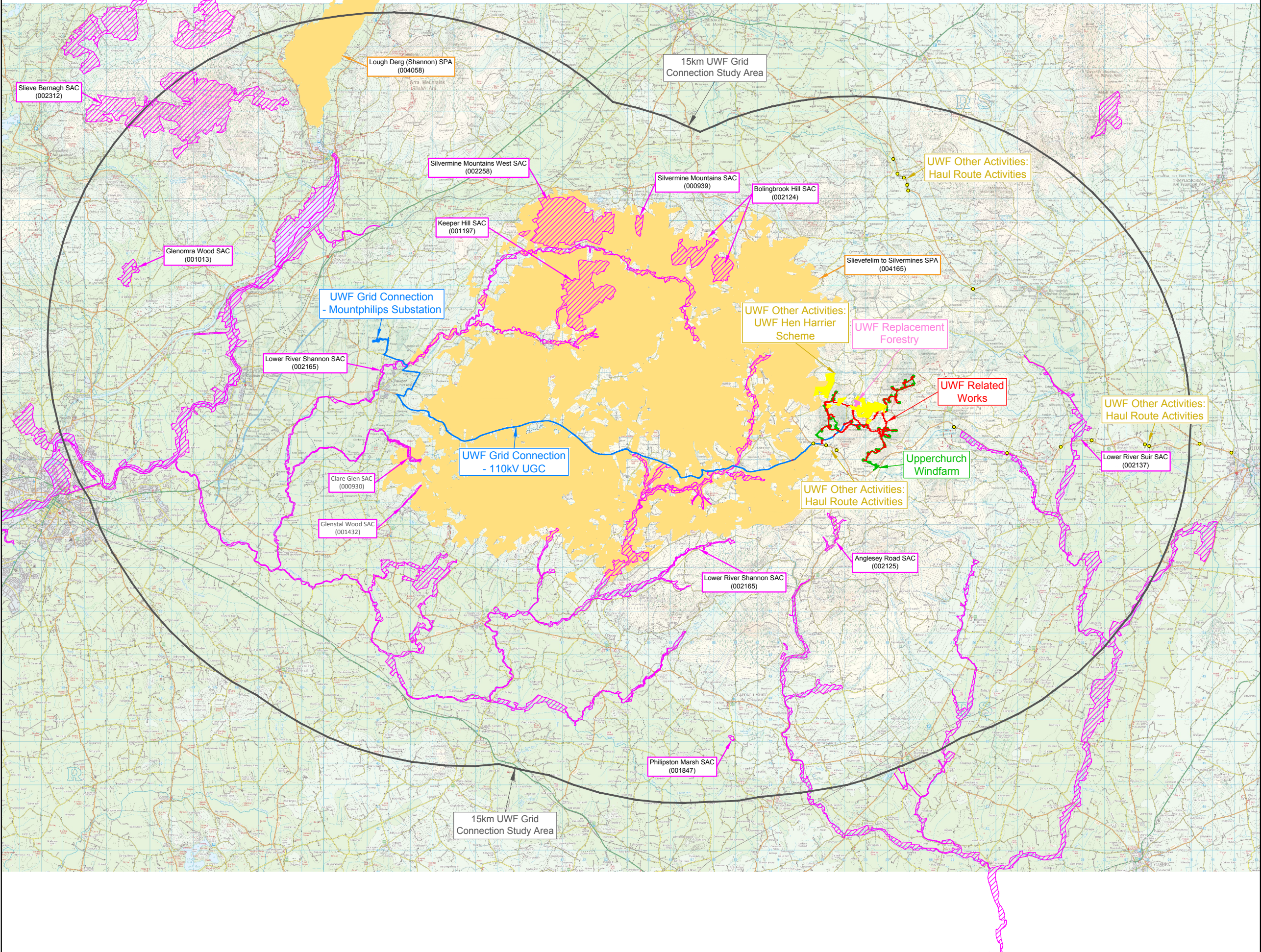
- Upperchurch Hen Harrier Scheme
- Haul Route Activities

Study Area Extents :

- 15km Study Area:
 - UWF Grid Connection Construction Works Area

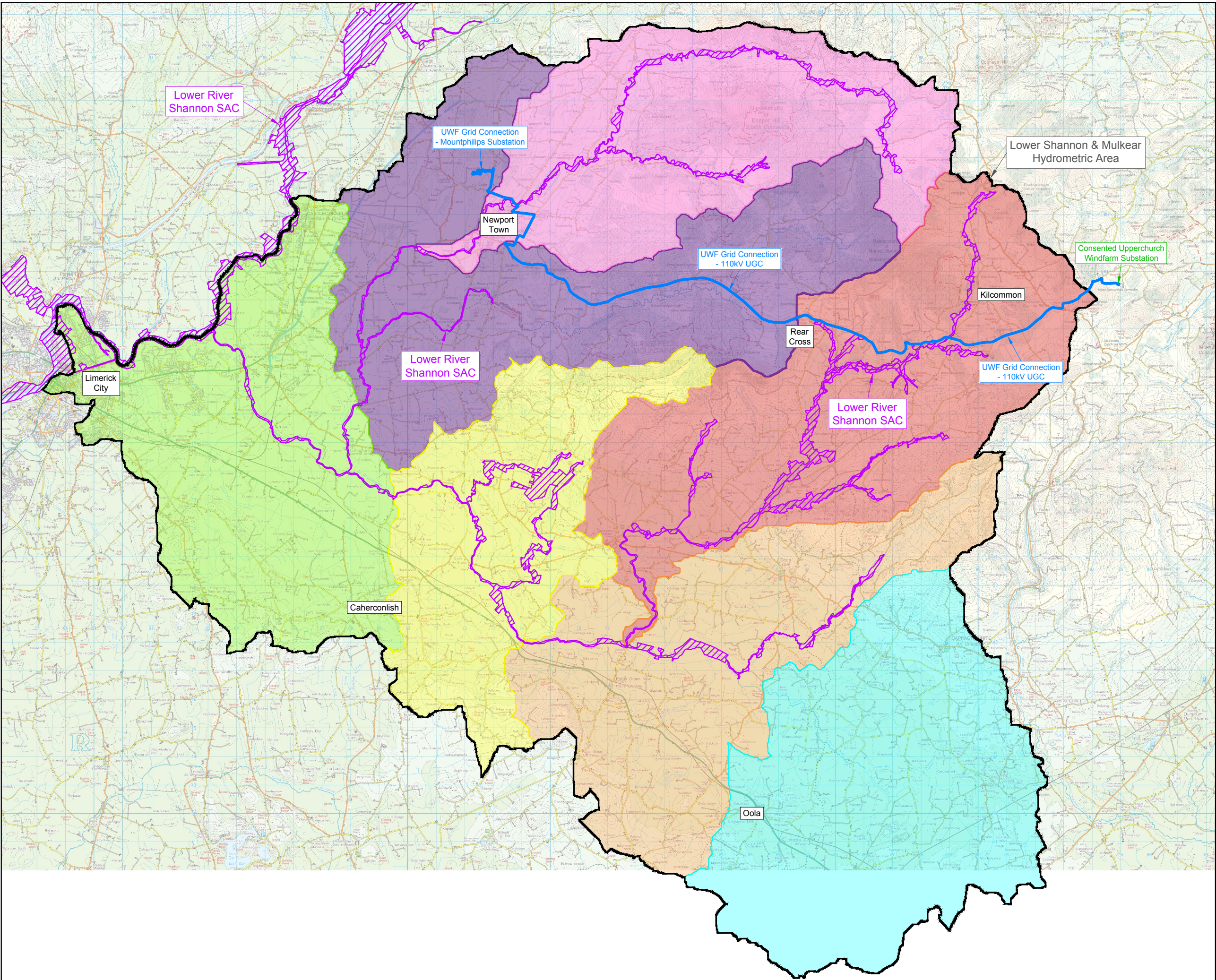
Survey Results :

- Special Areas of Conservation
- Special Protection Areas



Project:
UWF Grid Connection (2019)

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Biodiversity: European Sites
Figure GC 8.2.2
Location of UWF Grid Connection in
relation to Lower River Shannon SAC

Map Number:
Map 1 of 1

Legend:

- Study Area Extents :**
- UWF Grid Connection
Construction Works Area
- Survey Results :**
- Lower River Shannon SAC
 - Lower Shannon & Mulkear
Hydrometric Area
 - Newport (Tipperary) SC 010
 - Kileengarrif SC 010
 - Bilboa SC 010
 - Shannon (Lower) SC 090
 - Mulkear SC 020
 - Mulkear SC 010
 - Dead SC 010



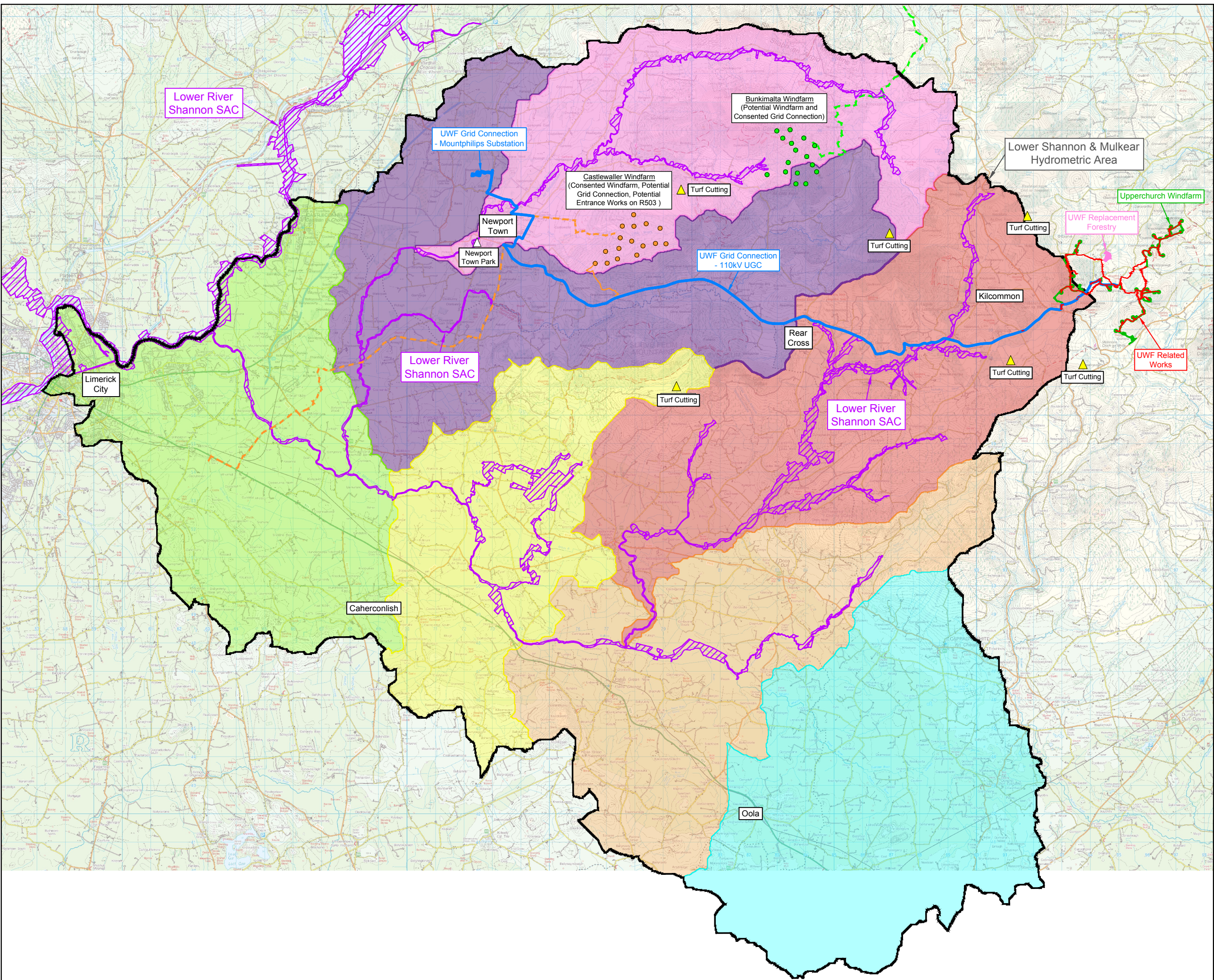
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Biodiversity: European Sites

Figure CE 8.2.2

Location of UWF Grid Connection and other projects/activities in relation to Lower River Shannon SAC

Map Number:

Map 1 of 1

Legend:

Study Area Extents :

— UWF Grid Connection
— Construction Works Area

Cumulative Evaluation Projects :

— UWF Related Works
— Construction Works Area

— Upperchurch Windfarm
— Construction Works Area

● Castlewaller Windfarm
● Consented Windfarm
— Potential Grid Connection
— Potential Entrance Works on R503

● Bunkimalta Windfarm
● Potential Windfarm
— Consented Grid Connection

△ Newport Town Park

▲ Turf Cutting

Forestry and Agriculture Activity

Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

Survey Results :

▨ Lower River Shannon SAC

▭ Mulkear Hydrometric Area

▭ Newport (Tipperary) SC 010

▭ Kileengarriff SC 010

▭ Bilboa SC 010

▭ Shannon (Lower) SC 090

▭ Mulkear SC 020

▭ Mulkear SC 010

▭ Dead SC 010



Project:

UWF Grid Connection (2019)

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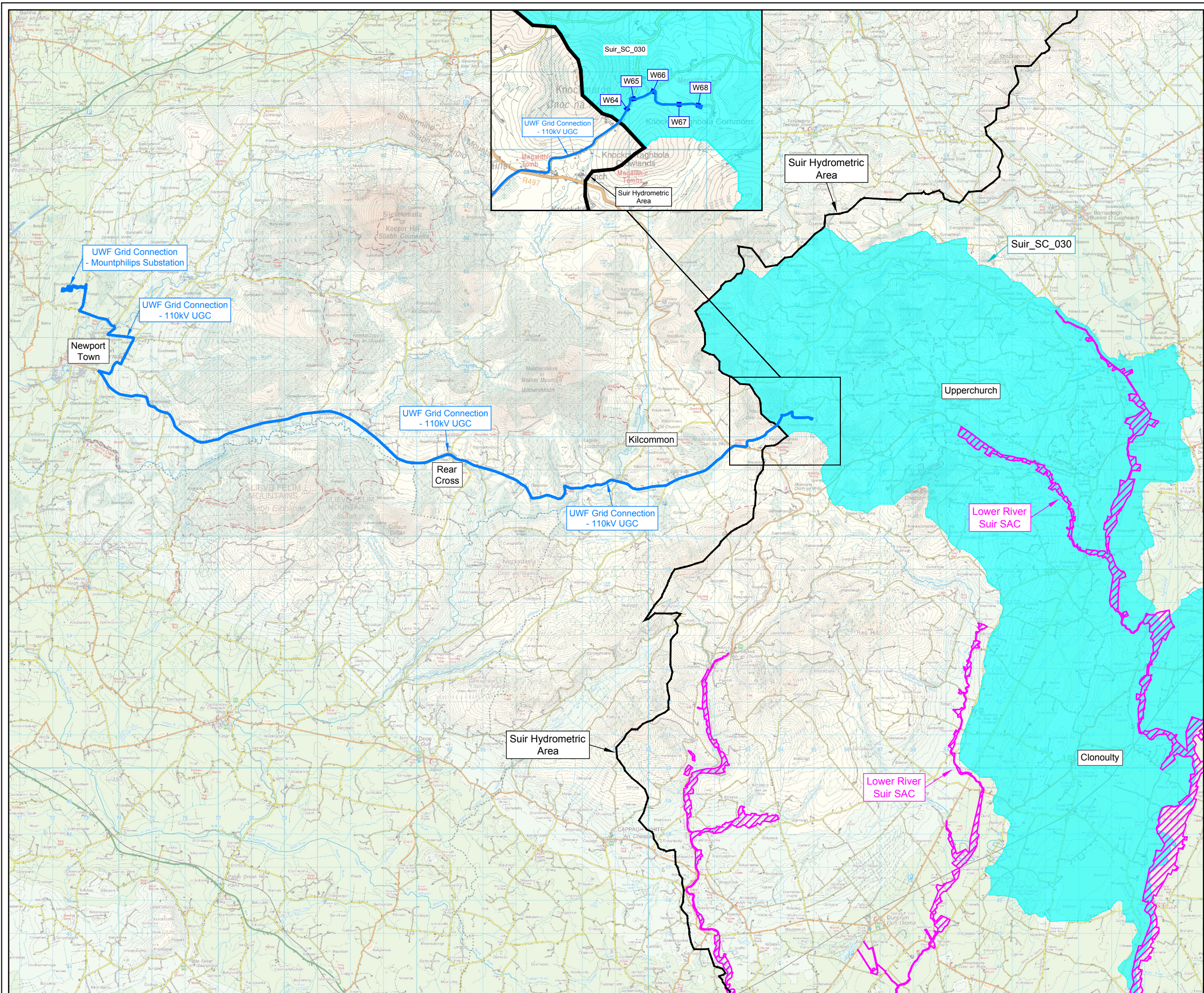
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Biodiversity: European Sites

Figure GC 8.2.3

Location of UWF Grid Connection
in relation to River Suir SAC

Map Number:

Map 1 of 1

Legend:

Study Area Extents:

— UWF Grid Connection
Construction Works Area

Survey Results:

- ▨ Lower River Suir SAC
- ▭ Regional River Suir catchment
- Hydrometric Area HA16
- ▭ EPA Sub-Catchment: Suir_SC_030

Map Information:

W64 Watercourse Crossing Locations

Project:

UWF Grid Connection (2019)

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Date:

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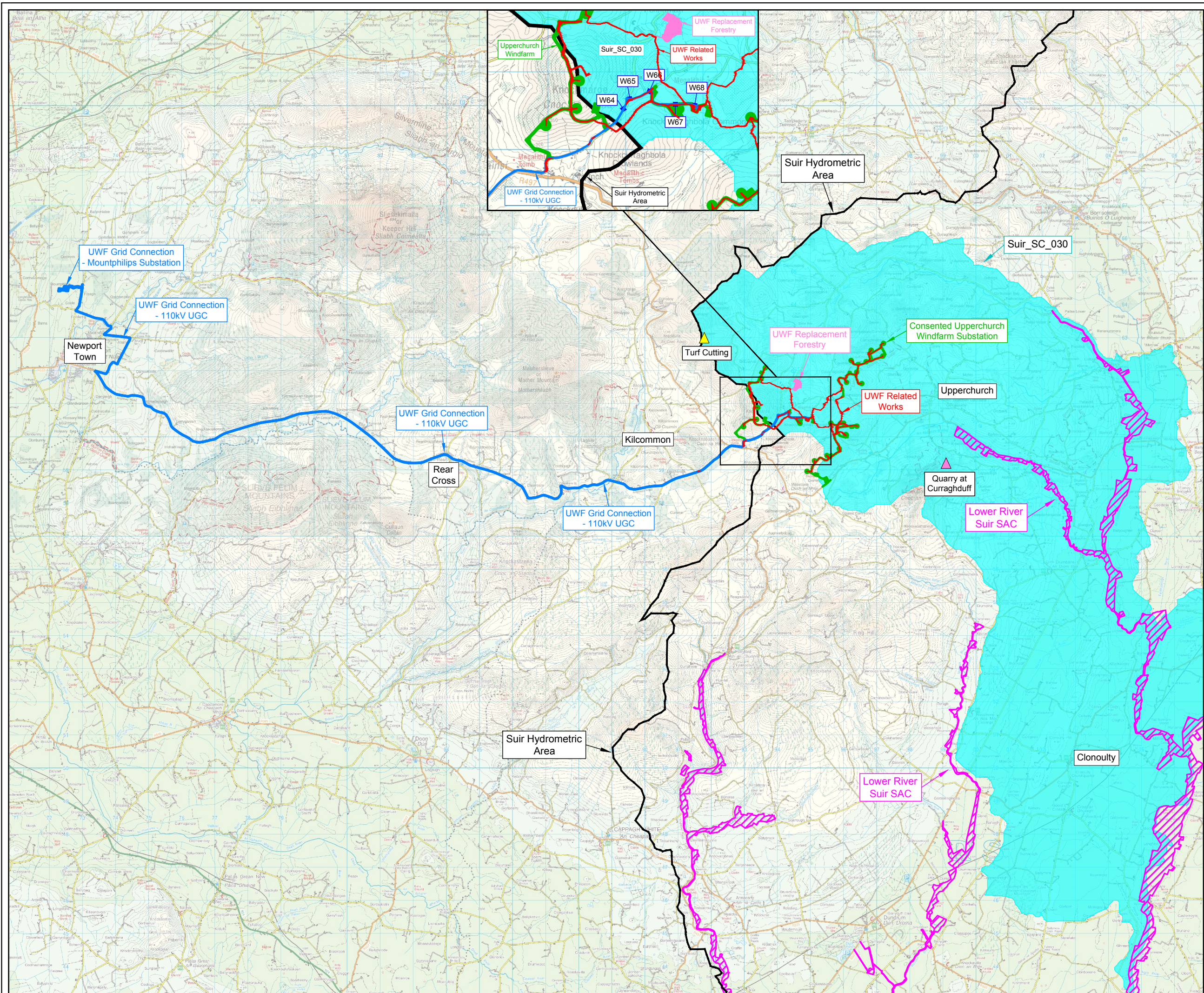
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Biodiversity: European Sites

Figure CE 8.2.3

Location of UWF Grid Connection and other projects/activities in relation to River Suir SAC

Map Number:
Map 1 of 1

Legend:

Study Area Extents :

UWF Grid Connection
Construction Works Area

Cumulative Evaluation Projects :

UWF Related Works
Construction Works Area

Upperchurch Windfarm
Construction Works Area

UWF Replacement Forestry
Construction Works Area

Turf Cutting

Curraghduff Quarry

Forestry and Agriculture Activity

Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

Survey Results :

Lower River Suir SAC

Regional River Suir catchment
- Hydrometric Area HA16

Suir_SC_030 Sub Catchment



Project:
UWF Grid Connection (2019)

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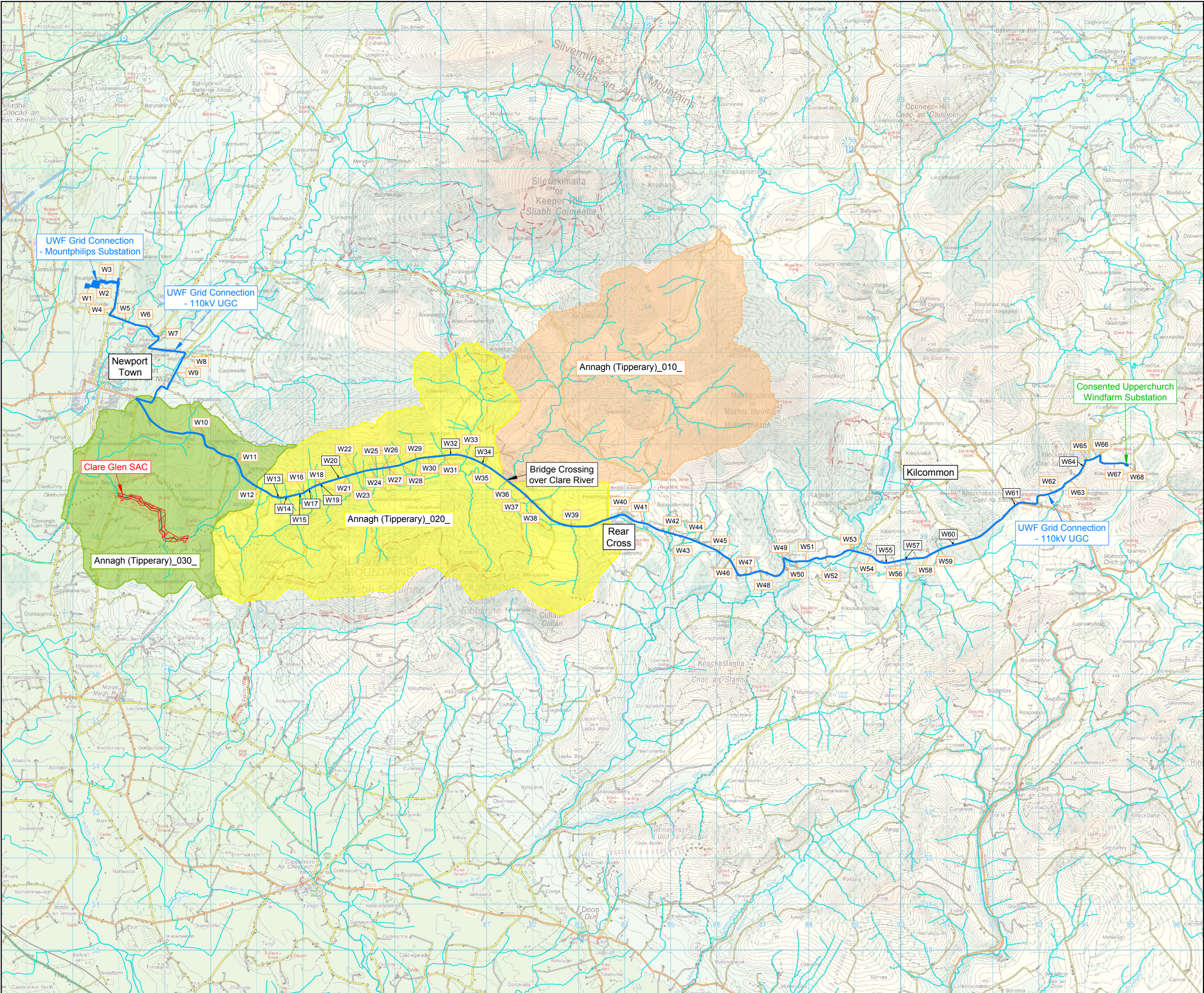
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Biodiversity: European Sites
Figure GC 8.2.4
Location of UWF Grid Connection
in relation to Clare Glen SAC

Map Number:
Map 1 of 1

Legend:

- Study Area Extents:**
- UWF Grid Connection
 - Construction Works Area
- EPA Local Surface Water Bodies:**
- Annagh (Tipperary)_030
 - Annagh (Tipperary)_020
 - Annagh (Tipperary)_010
- Survey Results:**
- Clare Glen SAC
- Map Information:**
- Watercourse
 - Potential Culvert Replacement
 - Watercourse Crossing Locations



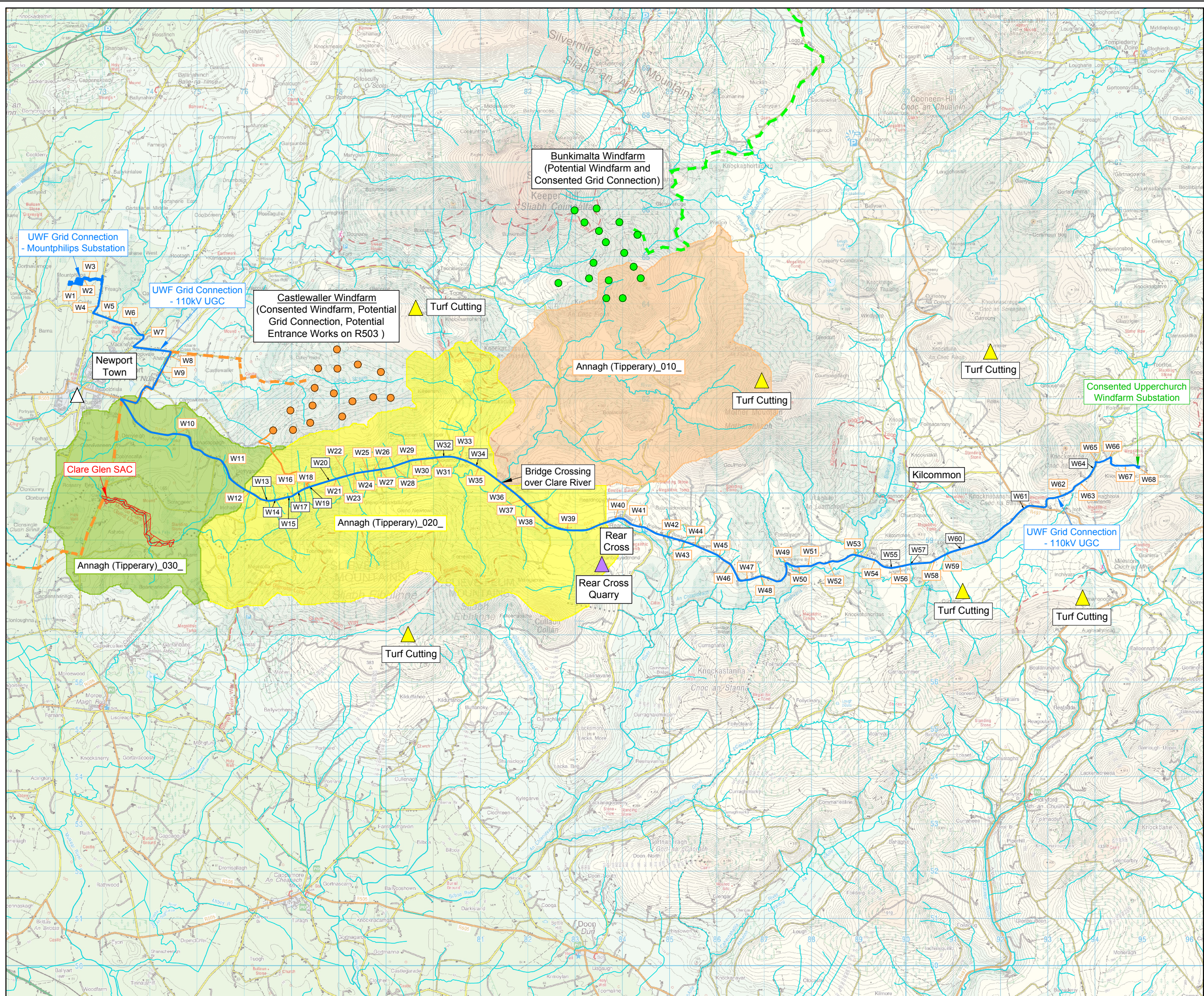
Project:
UWF Grid Connection (2019)

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Biodiversity: European Sites
Figure CE 8.2.4
Location of UWF Grid Connection
and other projects/activities in
relation to Clare Glen SAC

Map Number:
Map 1 of 1

- Legend:
- Study Area Extents:**
- UWF Grid Connection
 - Construction Works Area

- EPA Local Surface Water Bodies:**
- Annagh (Tipperary)_030
 - Annagh (Tipperary)_020
 - Annagh (Tipperary)_010

- Cumulative Evaluation Projects :**
- Castlewaller Windfarm
 - Consented Windfarm
 - Potential Grid Connection
 - Potential Entrance Works on R503
 - Bunkimalta Windfarm
 - Potential Windfarm
 - Consented Grid Connection
 - Turf Cutting

Forestry and Agriculture Activity
Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

- Survey Results:**
- Clare Glen SAC

- Map Information:**
- Watercourse
 - Potential Culvert Replacement
 - Watercourse Crossing Locations



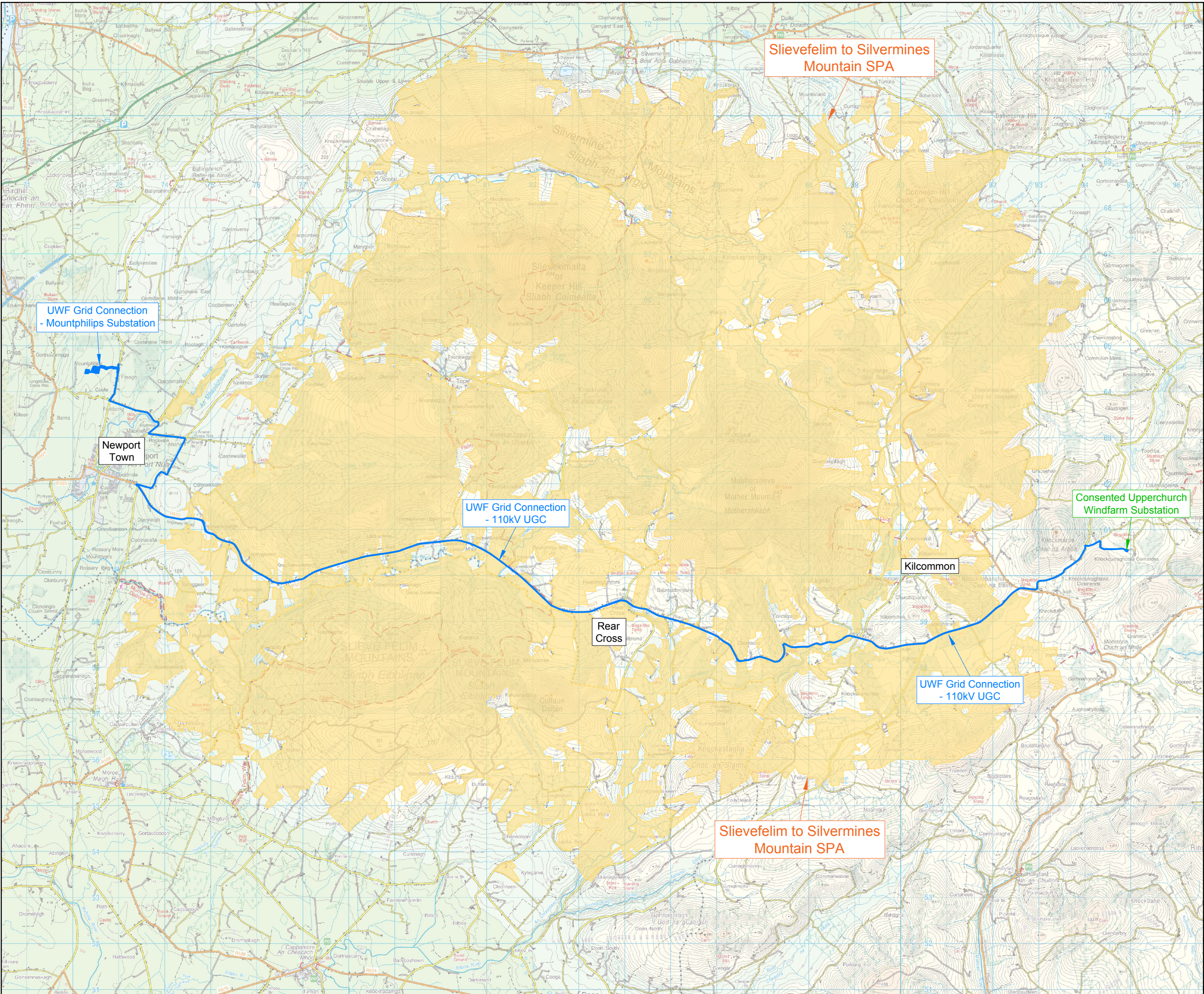
Project:
UWF Grid Connection (2019)

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Biodiversity: European Sites

Figure GC 8.2.5

Location of UWF Grid Connection
in relation to Slievefelim to
Silvermines Mountain SPA

Map Number:

Map 1 of 1

Legend:

Study Area Extents:

UWF Grid Connection

Construction Works Area


Survey Results:

Slievefelim to Silvermines
Mountains SPA

Project:

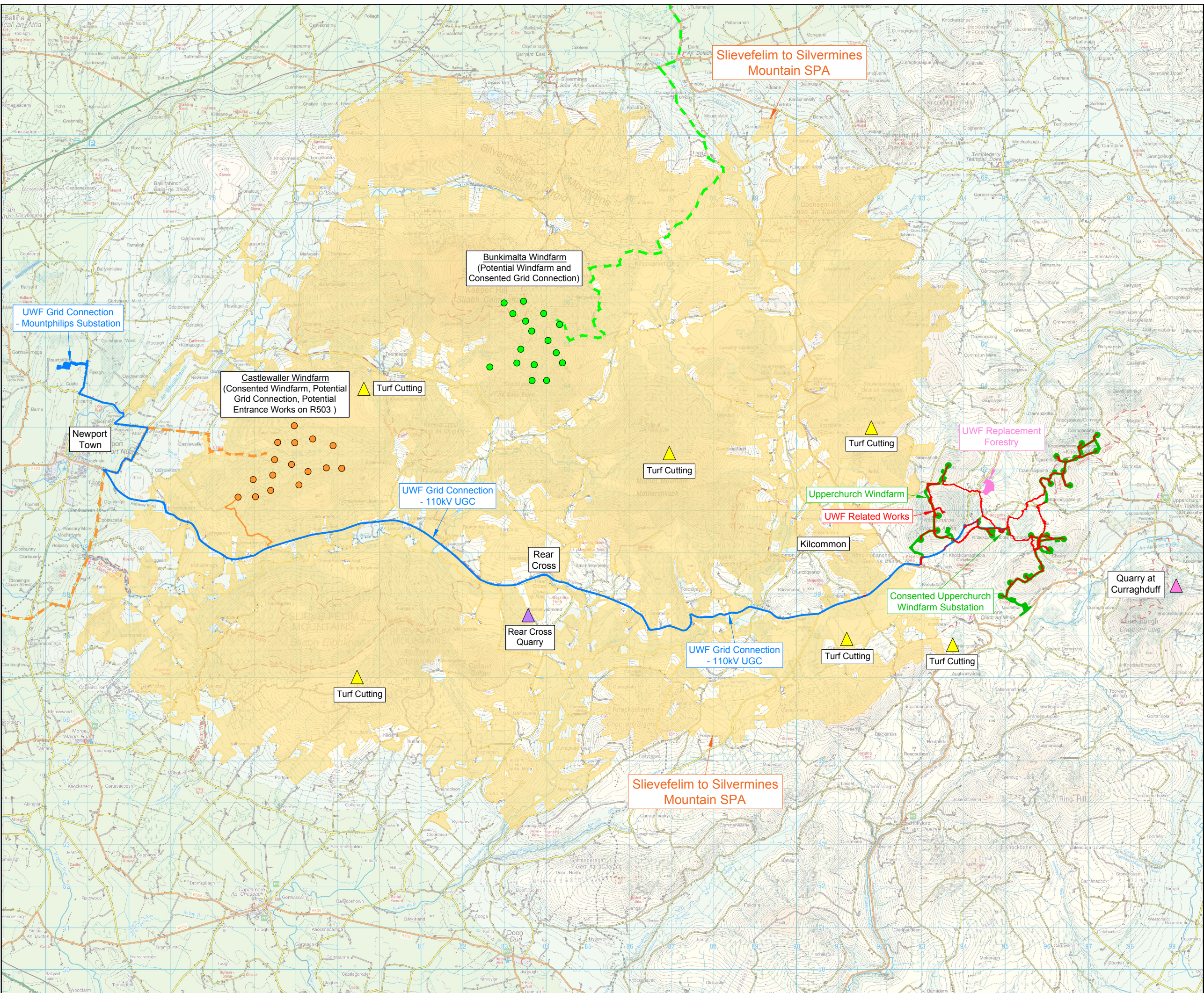
UWF Grid Connection (2019)

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Biodiversity: European Sites

Figure CE 8.2.5

Location of UWF Grid Connection and other projects/activities in relation to Slievefelim to Silvermines Mountain

SPA

Map Number:

Map 1 of 1

Legend:

Study Area Extents:

UWF Grid Connection
Construction Works Area

Cumulative Evaluation Projects :

UWF Related Works
Construction Works Area

Upperchurch Windfarm
Construction Works Area

UWF Replacement Forestry
Construction Works Area

Turf Cutting

Curraghduff Quarry

Rear Cross Quarry

Castlewaller Windfarm

Consented Windfarm

Potential Grid Connection

Potential Entrance Works on R503

Bunkimalta Windfarm

Potential Windfarm

Consented Grid Connection

Forestry and Agriculture Activity
Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

Survey Results:

Slievefelim to Silvermines
Mountains SPA

Project:

UWF Grid Connection (2019)

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Date:

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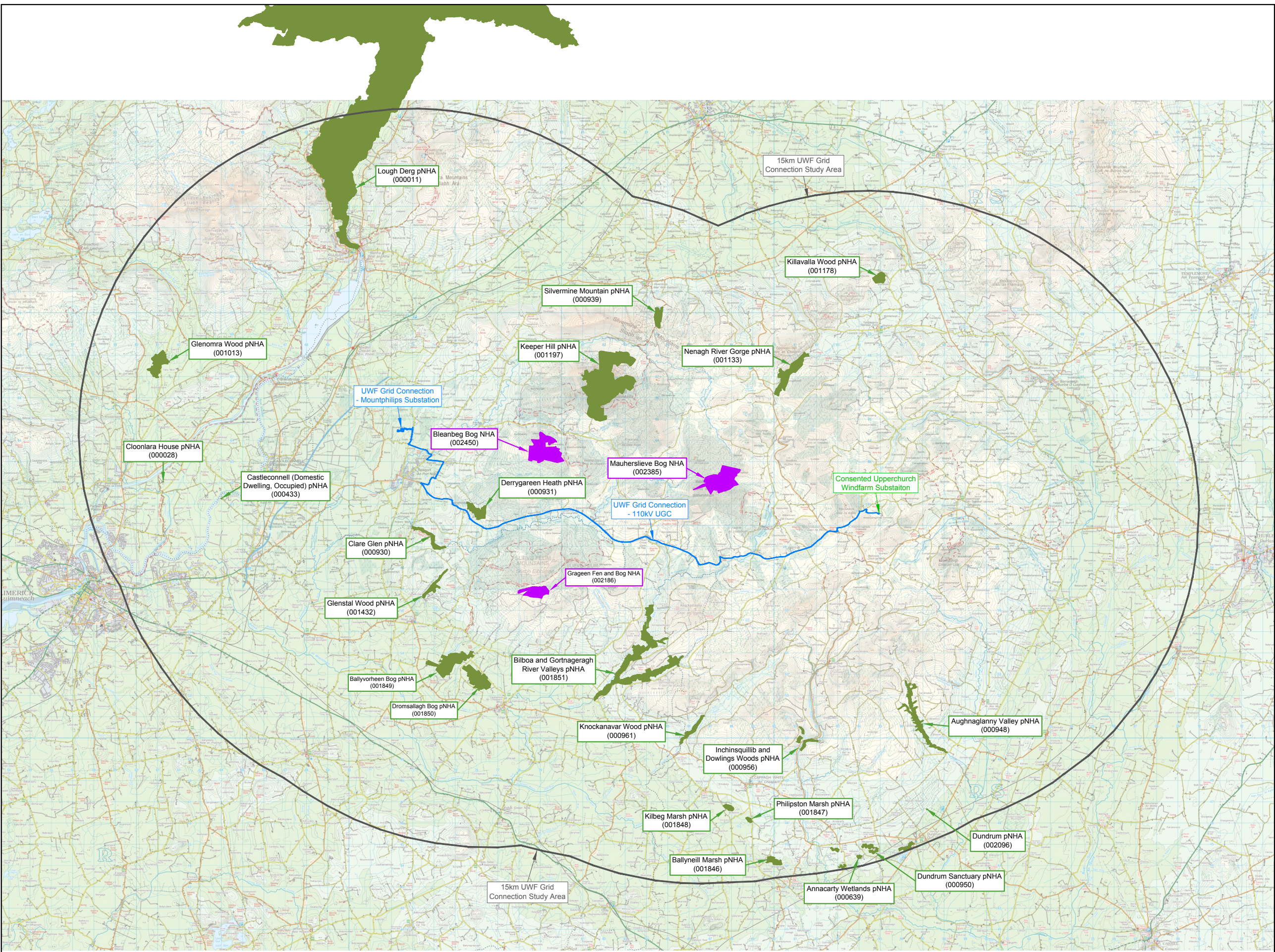
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Biodiversity: National Sites
Figure GC 8.3
UWF Grid Connection Study
Area for National Sites

Map Number:
Map 1 of 1

- Legend:
- Subject Development :**
- UWF Grid Connection Construction Works Area
- Study Area Extents :**
- 15km Study Area:
 - UWF Grid Connection Construction Works Area
- Survey Results :**
- National Heritage Areas
 - Proposed Natural Heritage Areas

Project:
UWF Grid Connection (2019)

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Figure WP 8.3

Whole Project Study
Area for National Sites

Map Number:
Map 1 of 1

Legend:

Elements of the Whole UWF Project:

- UWF Grid Connection
Construction Works Area
- UWF Related Works
Construction Works Area
- Upperchurch Windfarm
Construction Works Area
- UWF Replacement Forestry
Construction Works Area

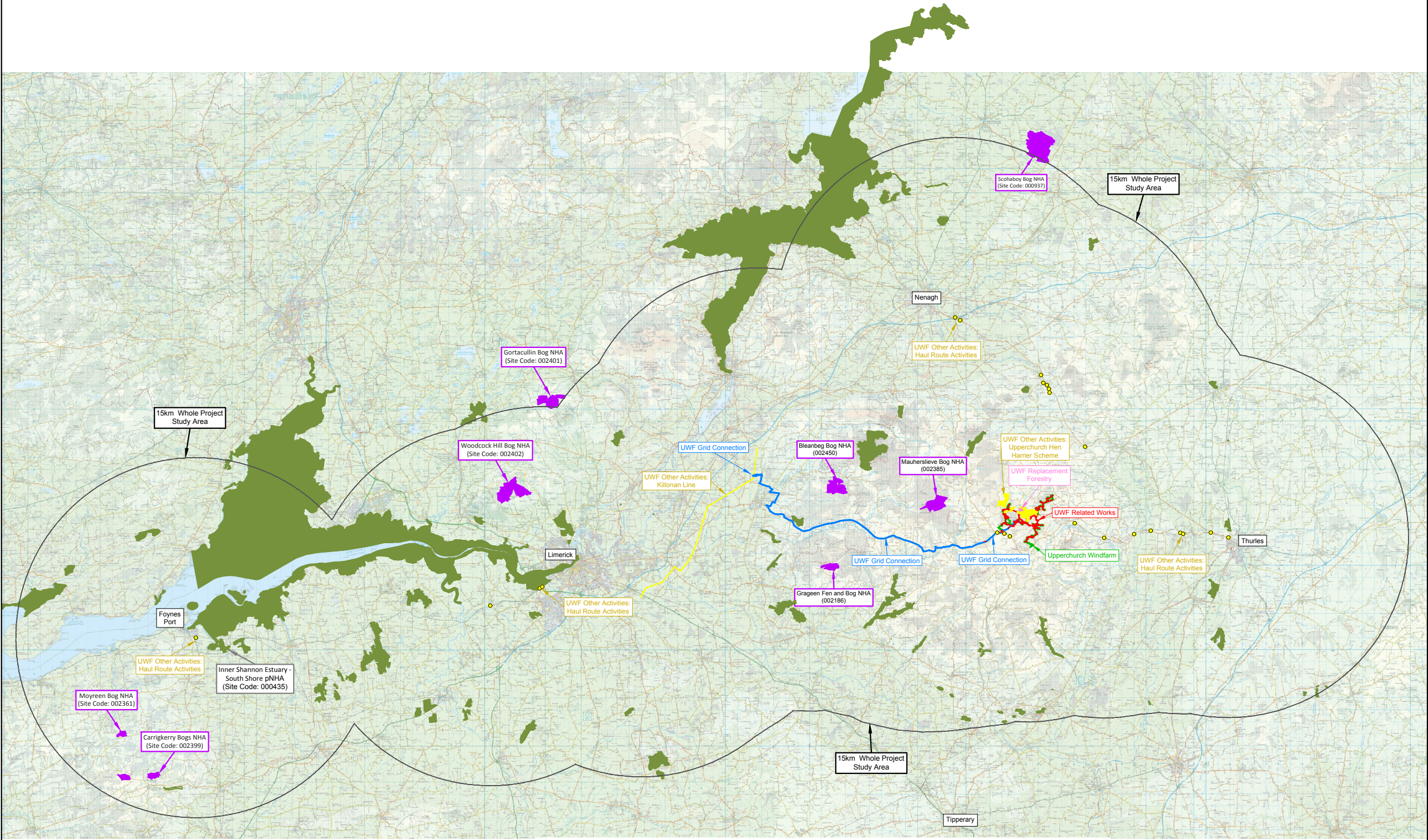
- UWF Other Activities:
- Upperchurch Hen Harrier Scheme
 - Haul Route Activities
 - Killonan Line

Study Area Extents :

- 15km Study Area from Whole Project
Construction Works Areas and Activities

Survey Results :

- National Heritage Areas
- Proposed Natural Heritage Areas



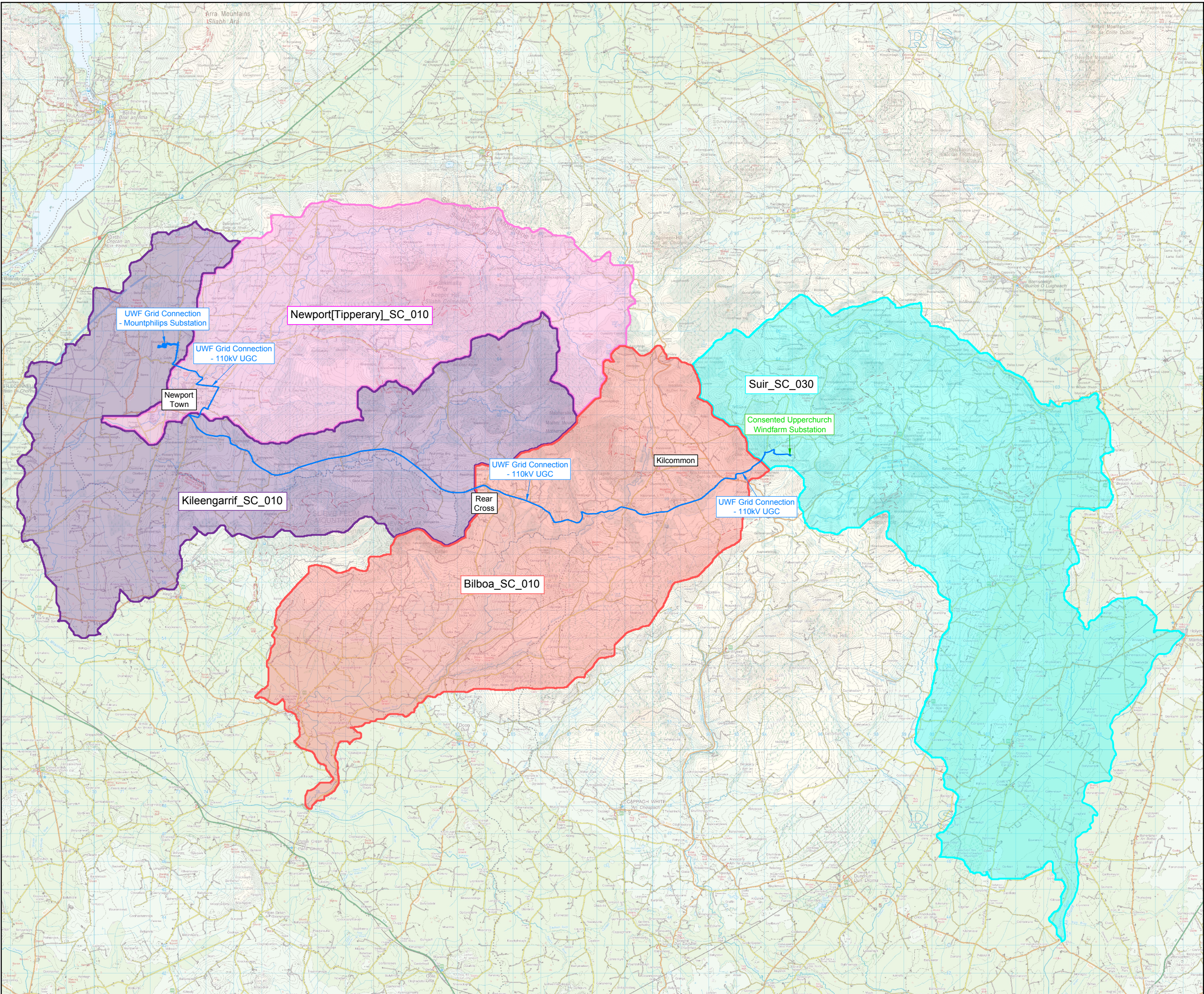
Project:
UWF Grid Connection (2019)

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Biodiversity: Aquatic Habitats & Species

Figure GC 8.4.1

UWF Grid Connection Study Area
for Aquatic Habitats and Species

Map Number:

Overview Map

Legend:

Subject Development:

UWF Grid Connection Construction Works Area

Map Information:

EPA Sub-Catchment:

Kileengarrif_SC_010

Newport[Tipperary]_SC_010

Bilboa_SC_010

Suir_SC_030

Keyplan:

Map 1

Map 2

Map 3

Project:

UWF Grid Connection (2019)

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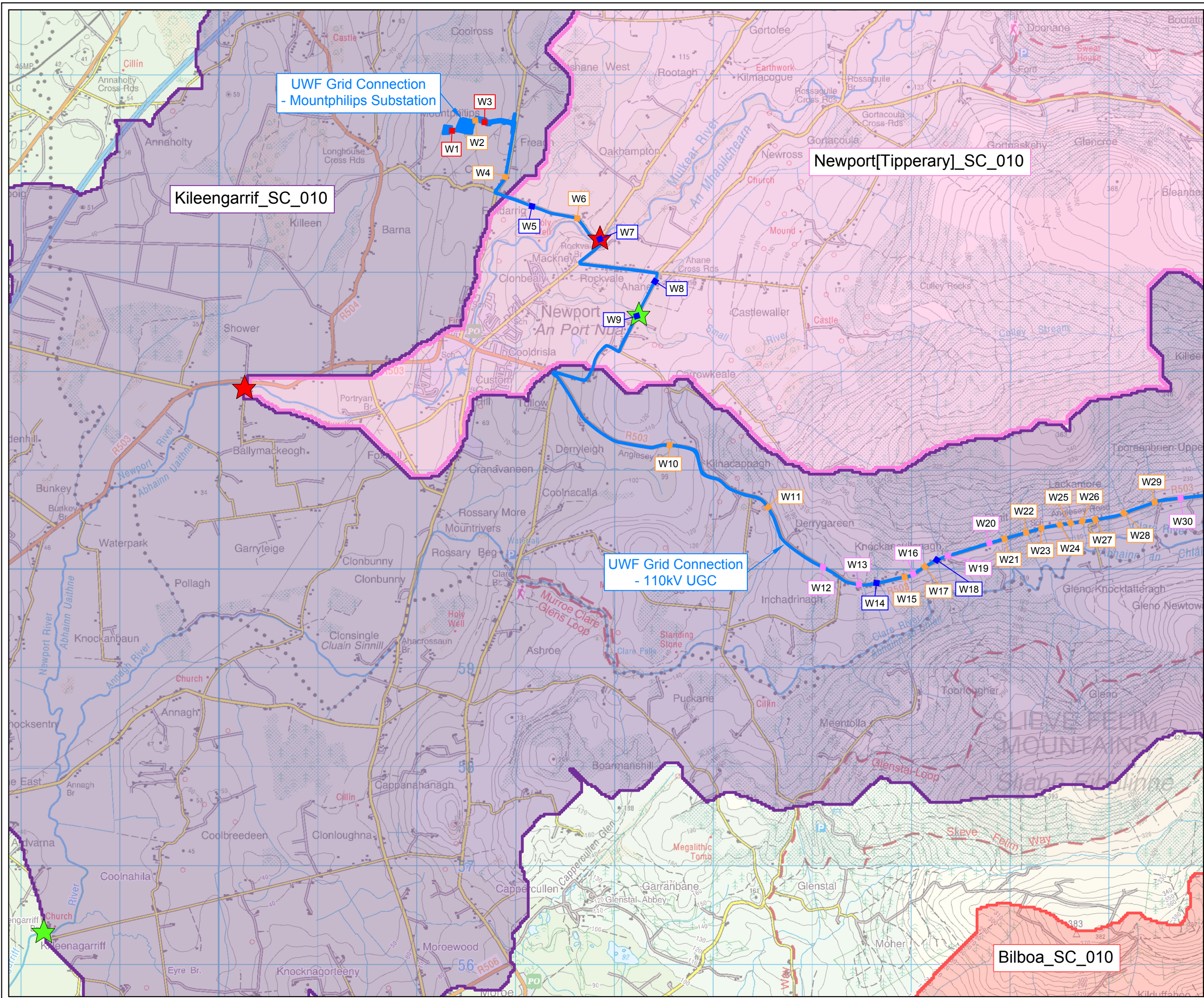
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Biodiversity: Aquatic Habitats & Species
Figure GC 8.4.2

UWF Grid Connection Study Area
for Aquatic Habits and Species

Map Number:
Map 1 of 3

Legend:

Subject Development:
UWF Grid Connection
Construction Works Area

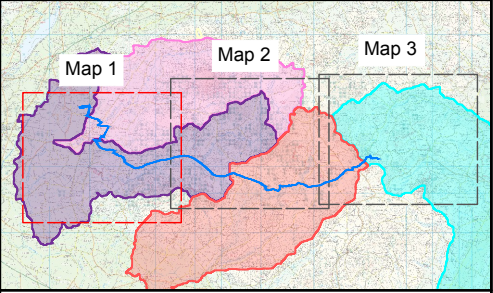
Study Area Extends:
W7 Class 1 Watercourse Crossing
W1 Class 2 Watercourse Crossing
W4 Class 3 Watercourse Crossing
W12 Class 4 Watercourse Crossing

Map Information:
★ EPA Q-Values: Good
★ EPA Q-Values: High

EPA Sub-Catchment:
Kileengarrif_SC_010
Newport[Tipperary]_SC_010
Bilboa_SC_010



Keyplan:



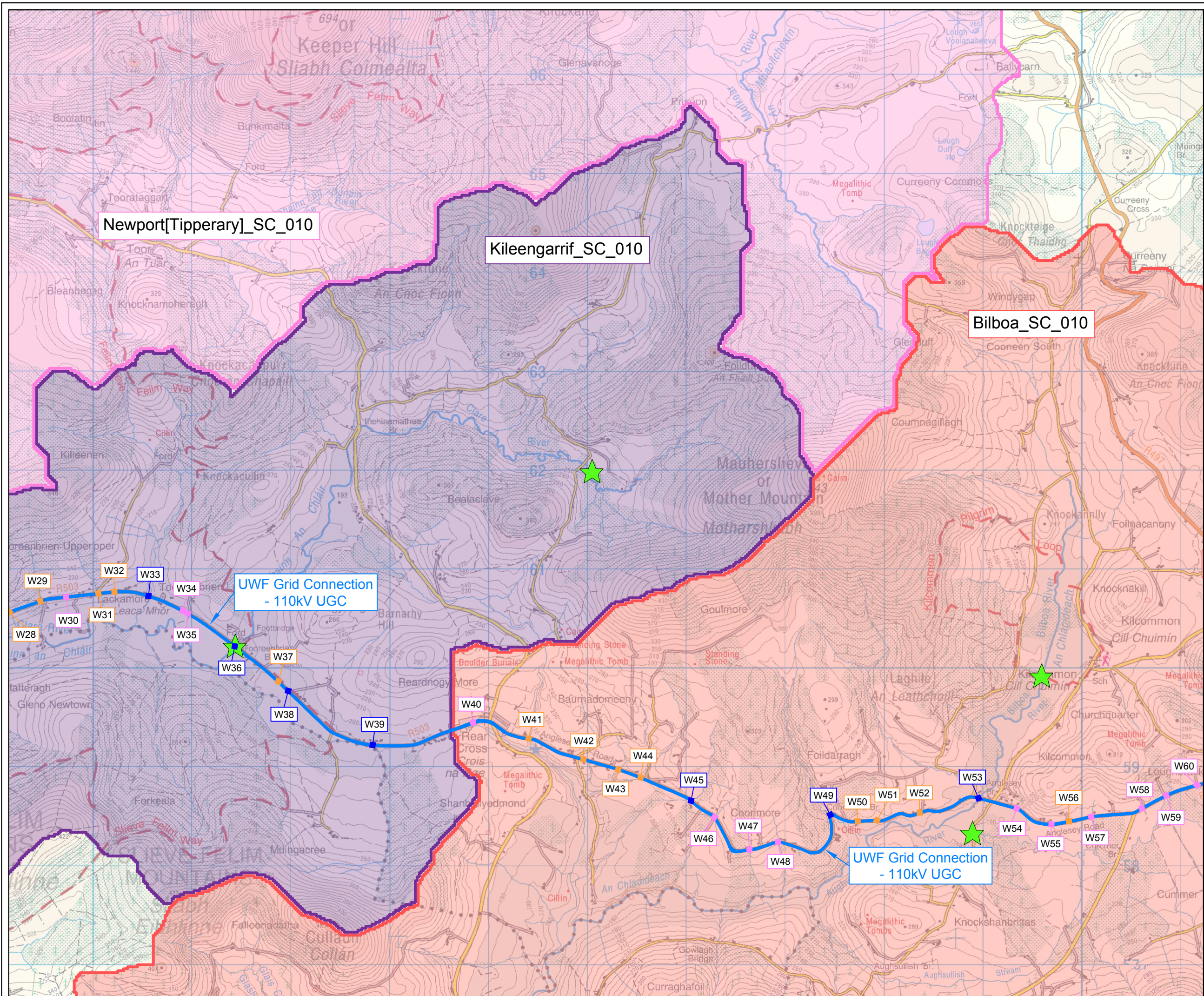
Project:
UWF Grid Connection (2019)

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Biodiversity: Aquatic Habitats & Species
Figure GC 8.4.3

UWF Grid Connection Study Area
for Aquatic Habitats and Species

Map Number:
Map 2 of 3

Legend:

Subject Development:

— UWF Grid Connection
Construction Works Area

Study Area Extents:

- W7 Class 1 Watercourse Crossing
- W4 Class 3 Watercourse Crossing
- W12 Class 4 Watercourse Crossing

Map Information:

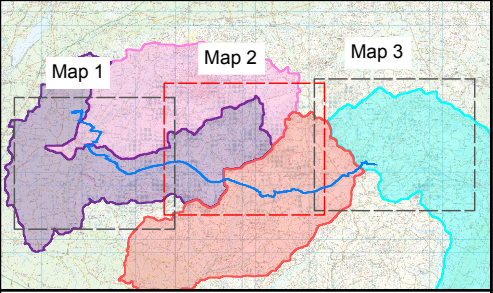
★ EPA Q-Values: Good

EPA Sub-Catchment:

- Kileengarrif_SC_010
- Newport(Tipperary)_SC_010
- Bilboa_SC_010



Keyplan:



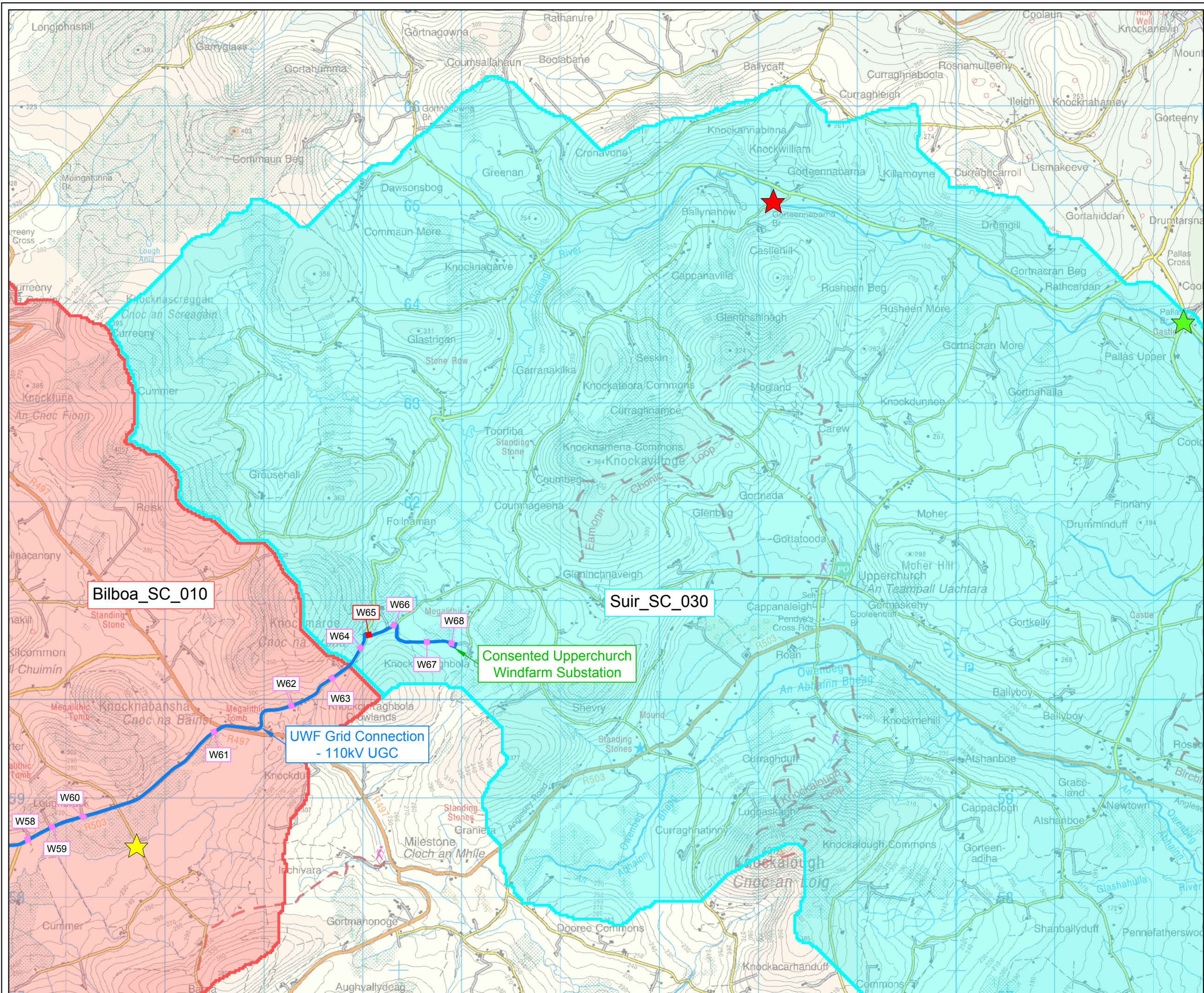
Project:
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Biodiversity: Aquatic Habitats & Species
Figure GC 8.4.4
UWF Grid Connection Study Area
for Aquatic Habitats and Species

Map Number:
Map 3 of 3

Legend:

Subject Development:

UWF Grid Connection
Construction Works Area

Study Area Extents:

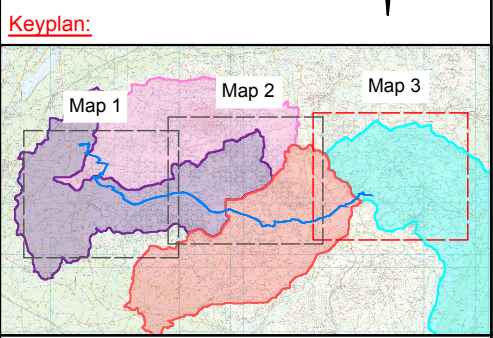
W65 Class 2 Watercourse Crossing
W12 Class 4 Watercourse Crossing

Map Information:

★ EPA Q-Values: Good
★ EPA Q-Values: Moderate
★ EPA Q-Values: High

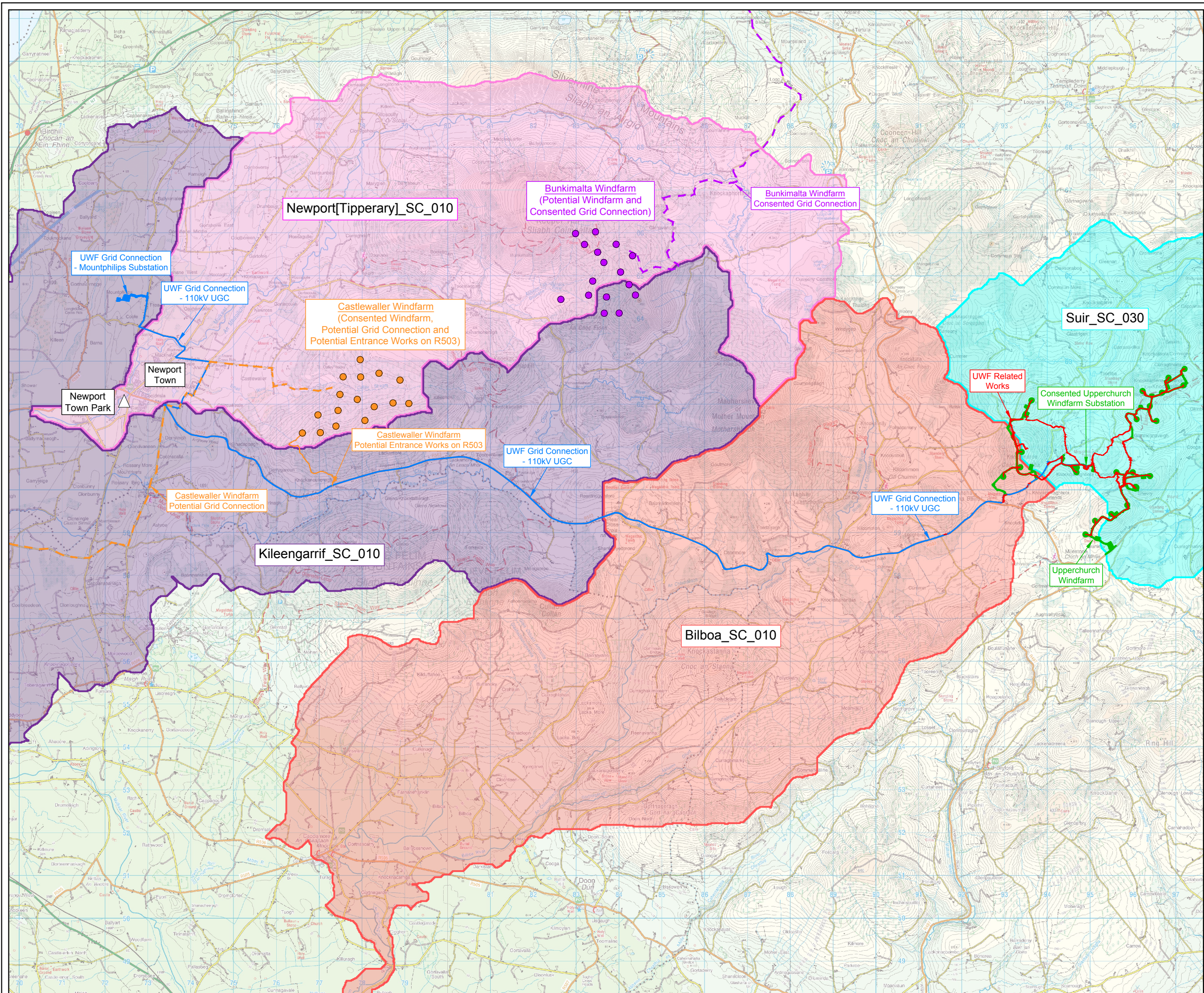
EPA Sub-Catchment:

Suir_SC_030
Bilboa_SC_010



Project:
UWF Grid Connection (2019)

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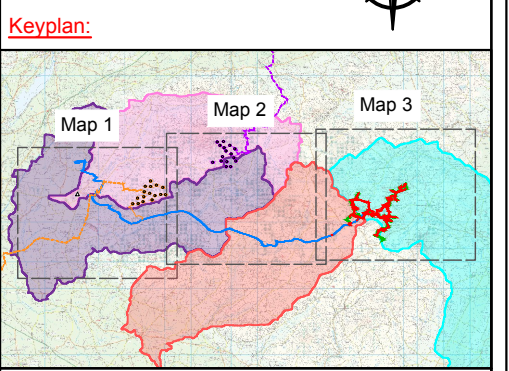


Biodiversity: Aquatic Habitats & Species
Figure CE 8.4.1
UWF Grid Connection Cumulative Evaluation Study Area for Aquatic Habitats and Species

Map Number:
Overview Map

- Legend:
- Study Area Extents:**
- UWF Grid Connection Construction Works Area
- Cumulative Evaluation Projects:**
- UWF Related Works Construction Works Area
 - Upperchurch Windfarm Construction Works Area
 - Castlewaller Windfarm Consented Windfarm
 - Potential Grid Connection
 - Potential Entrance Works on R503
 - Bunkimalta Windfarm Potential Windfarm
 - Consented Grid Connection
 - Newport Town Park

- Map Information:**
- EPA Sub-Catchment:
- Kileengarrif_SC_010
 - Newport[Tipperary]_SC_010
 - Bilboa_SC_010
 - Suir_SC_030



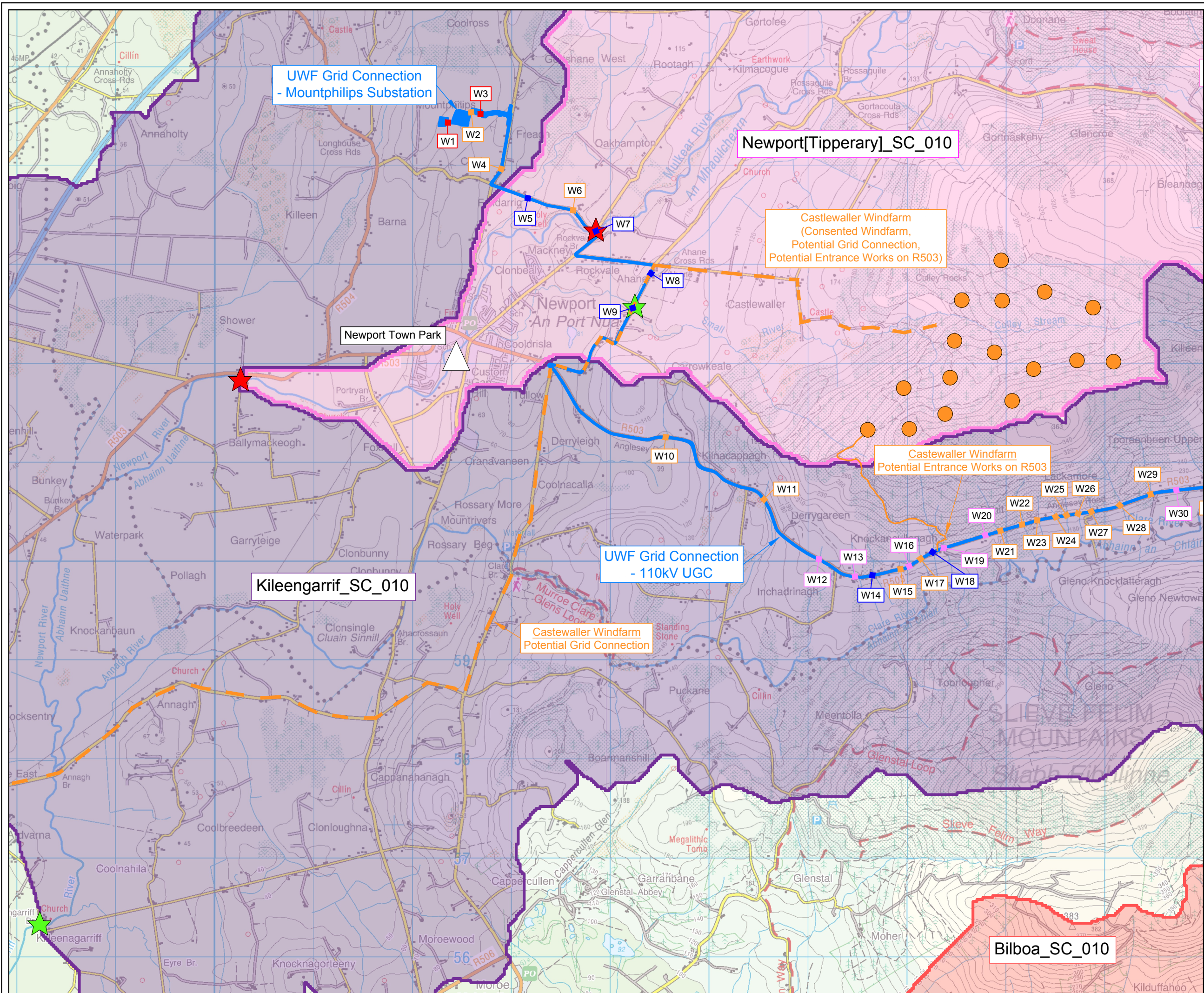
Project:
UWF Grid Connection (2019)

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Biodiversity: Aquatic Habitats & Species

Figure CE 8.4.2

UWF Grid Connection Cumulative Evaluation Study Area for Aquatic Habitats and Species

Map Number:
Map 1 of 3

Legend:

Subject Development:

- UWF Grid Connection Construction Works Area

Study Area Extents:

- W7 Class 1 Watercourse Crossing
- W1 Class 2 Watercourse Crossing
- W4 Class 3 Watercourse Crossing
- W12 Class 4 Watercourse Crossing

Cumulative Evaluation Projects:

- Castlewaller Windfarm Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503
- Newport Town Park

Map Information:

- EPA Q-Values: Good
- EPA Q-Values: High

EPA Sub-Catchment:

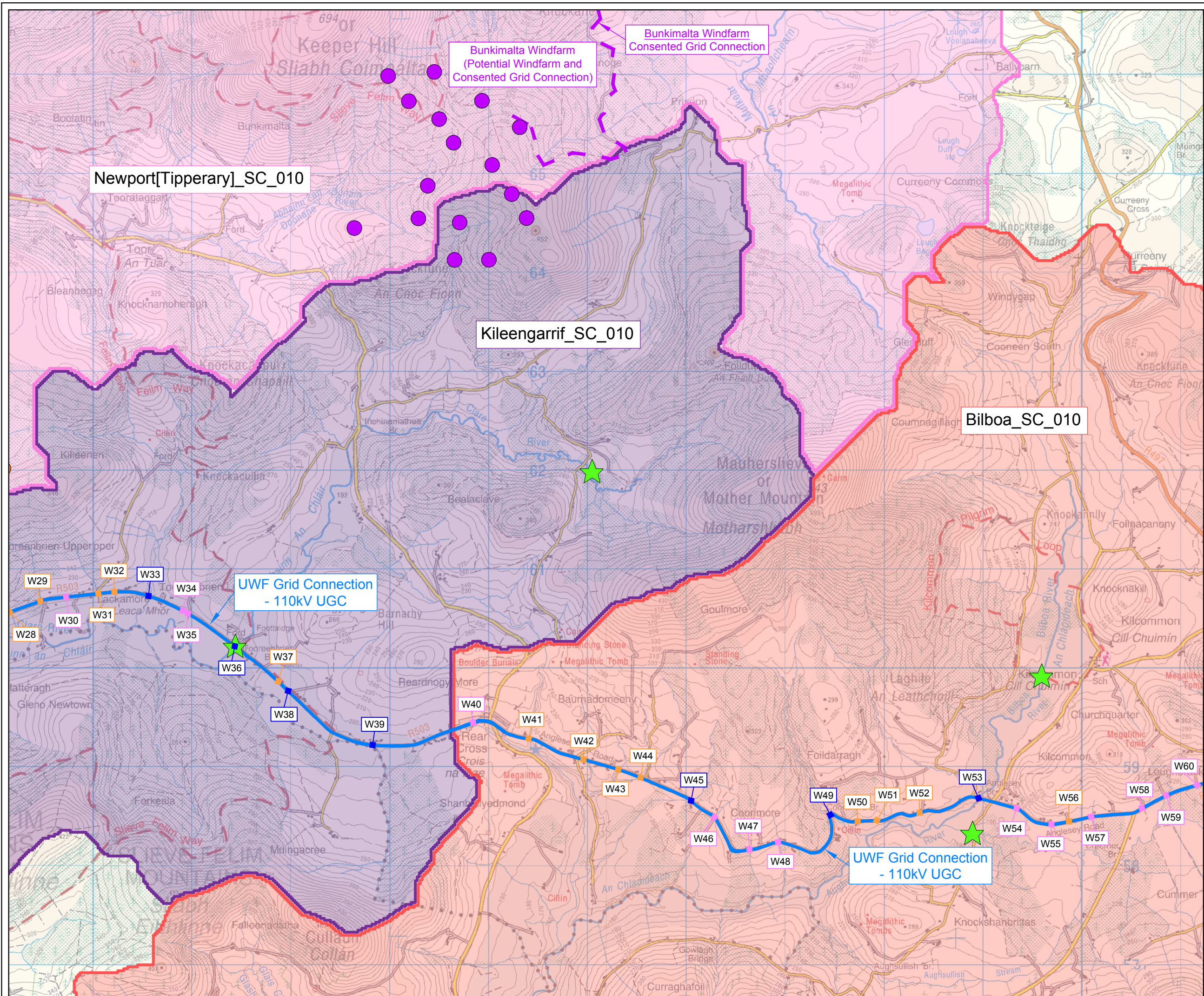
- Kileengarrif_SC_010
- Newport[Tipperary]_SC_010
- Bilboa_SC_010

Keyplan:

Project:
UWF Grid Connection (2019)

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Biodiversity: Aquatic Habitats & Species

Figure CE 8.4.3

UWF Grid Connection Cumulative Evaluation Study Area for Aquatic Habitats and Species

Map Number:
Map 2 of 3

Legend:

Subject Development:

UWF Grid Connection Construction Works Area

Study Area Extents:

W7 Class 1 Watercourse Crossing
W4 Class 3 Watercourse Crossing
W12 Class 4 Watercourse Crossing

Cumulative Evaluation Projects:

Bunkimalta Windfarm
Potential Windfarm
Consented Grid Connection

Map Information:

★ EPA Q-Values: Good

EPA Sub-Catchment:

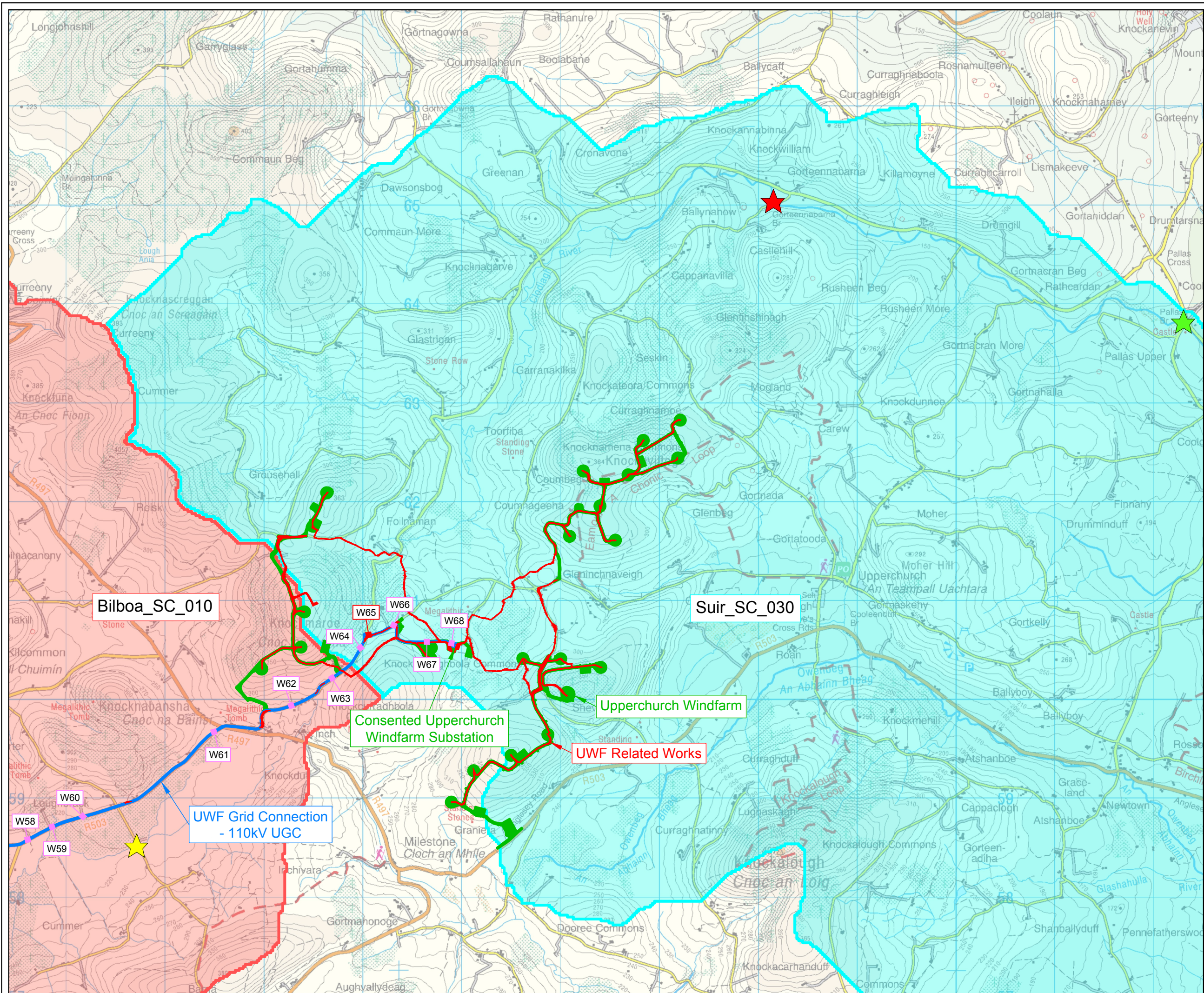
Kileengarrif_SC_010
Newport[Tipperary]_SC_010
Bilboa_SC_010

Keyplan:

Project:
UWF Grid Connection (2019)

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Biodiversity: Aquatic Habitats & Species
Figure CE 8.4.4
UWF Grid Connection Cumulative Evaluation Study Area for Aquatic Habitats and Species

Map Number:
Map 3 of 3

Legend:

Subject Development:
 UWF Grid Connection Construction Works Area

Study Area Extents:
 W65 Class 2 Watercourse Crossing
 W12 Class 4 Watercourse Crossing

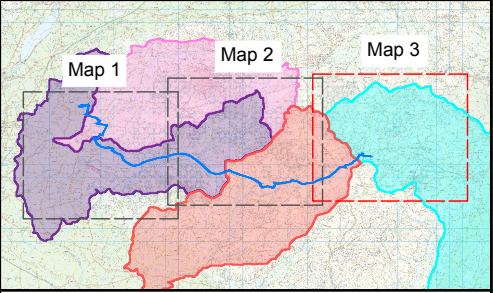
Cumulative Evaluation Projects:
 UWF Related Works Construction Works Area
 Upperchurch Windfarm Construction Works Area

Map Information:
 EPA Q-Values: Good
 EPA Q-Values: Moderate
 EPA Q-Values: High

EPA Sub-Catchment:
 Bilboa_SC_010
 Suir_SC_030



Keyplan:



Project:
UWF Grid Connection (2019)

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Figure WP 8.4.1

Whole Project Study Area for
Aquatic Habitats and Species

Map Number:
Overview Map

Legend:

Elements of the Whole UWF Project:

- UWF Grid Connection
Construction Works Area
- UWF Related Works
Construction Works Area
- Upperchurch Windfarm
Construction Works Area

Other Projects/Activities:

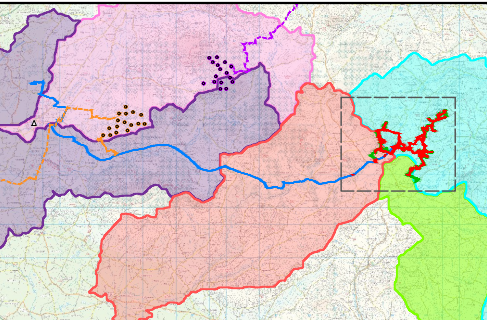
- Castlewaller Windfarm
Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503
- Bunkimalta Windfarm
Potential Windfarm
- Consented Grid Connection
- Newport Town Park

Map Information:

EPA Sub-Catchment:

- Kileengarrif_SC_010
- Newport[Tipperary]_SC_010
- Bilboa_SC_010
- Suir_SC_030
- Multeen(East)_SC_010

Keyplan:



Project:

UWF Grid Connection (2019)

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Checked by:
PK

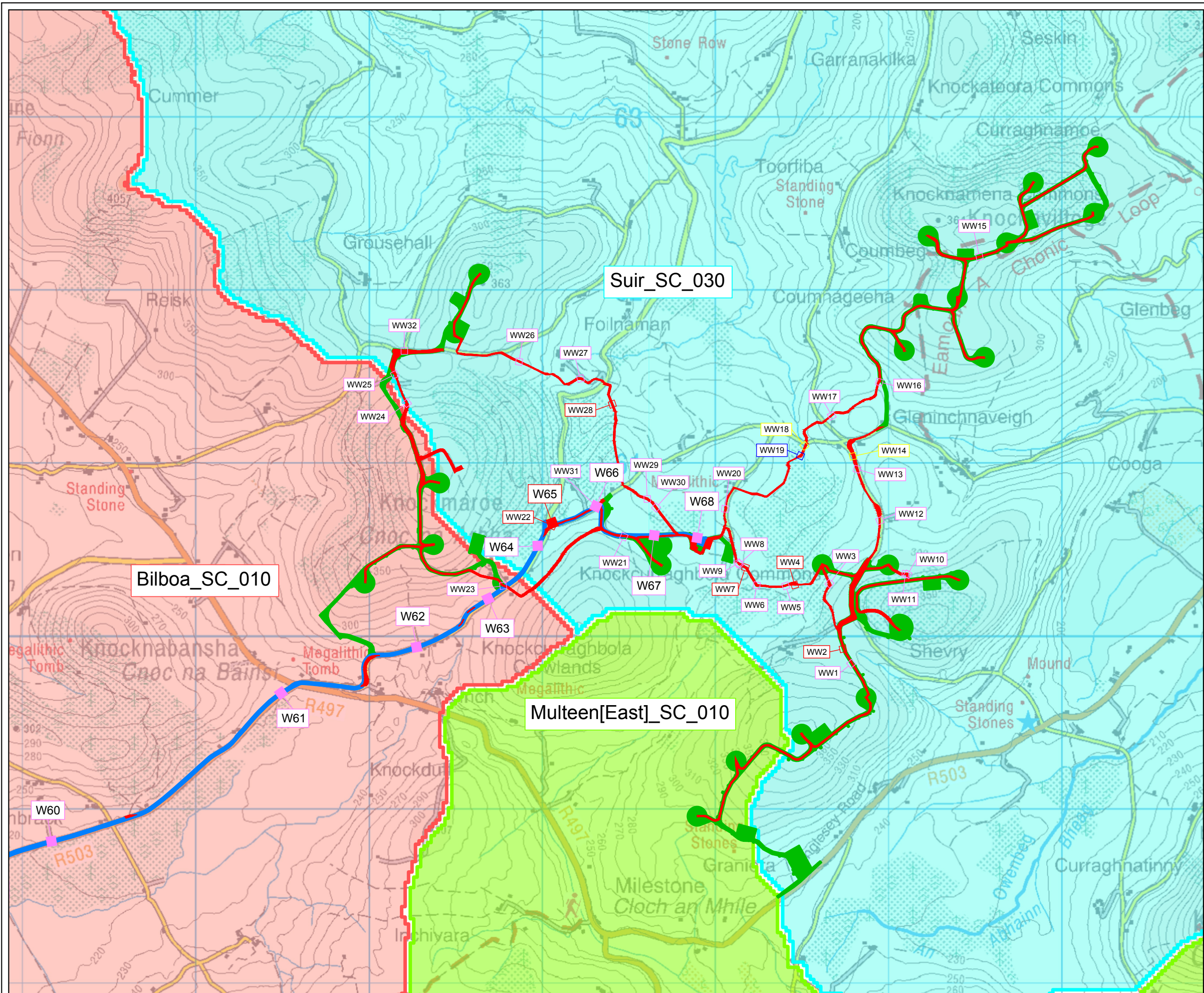
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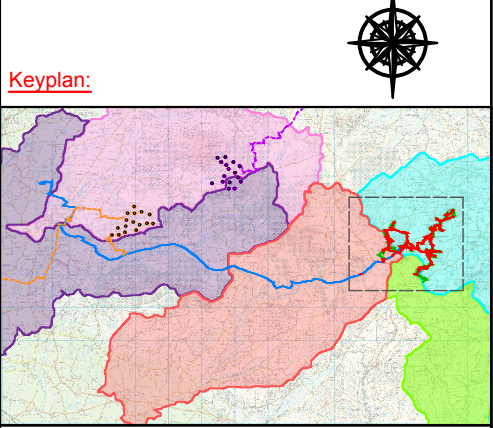
Biodiversity: Aquatic Habitats & Species
Figure WP 8.4.2
Whole Project Study Area for
Aquatic Habitats and Species

Map Number:
Map 1 of 1

- Legend:
- Elements of the Whole UWF Project:
- UWF Grid Connection Construction Works Area
 - UWF Related Works Construction Works Area
 - Upperchurch Windfarm Construction Works Area

- Study Area Extents:
- UWF Grid Connection:
- W7 Class 1 Watercourse Crossing
 - W1 Class 2 Watercourse Crossing
 - W12 Class 4 Watercourse Crossing
- UWF Related Works:
- WW19 Class 1 Watercourse Crossing
 - WW4 Class 2 Watercourse Crossing
 - WW14 Class 3 Watercourse Crossing
 - WW16 Class 4 Watercourse Crossing

- Map Information:
- EPA Sub-Catchment:
- Bilboa_SC_010
 - Suir_SC_030
 - Multeen[East]_SC_010



Project:
UWF Grid Connection (2019)

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