

RIVER BASIN MONITORING PLAN

# WATER FRAMEWORK DIRECTIVE 1<sup>ST</sup> CYCLE CLASSIFICATION SUMMARY

2009-2015

Transitional Heavily Modified Water Body  
– Connswater Estuary

31/05/2015



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	<p>Version Date: 31/05/2015</p>
<p><b>MONITORING &amp; ASSESSMENT TEAM</b></p>	

**CONNSWATER ESTUARY (TRANSITIONAL WATER)**

Water body Information

- River Basin District: North Eastern
- Water body type: Transitional Water 2 (TW2)
- Water body code: UKGBNI5NE10020
- Water body characteristics: Partly mixed/stratified, mesotidal, sand and mud, mesohaline
- Water body area: 0.07 km<sup>2</sup>
- Heavily Modified Water Body: Yes
- 2015 Classification Objective: Moderate Ecological Potential

<b>FINAL CLASSIFICATION</b>	<b>POOR ECOLOGICAL POTENTIAL</b>	<b>PASS/FAIL 2015 OBJECTIVE</b>	<b>FAIL</b>
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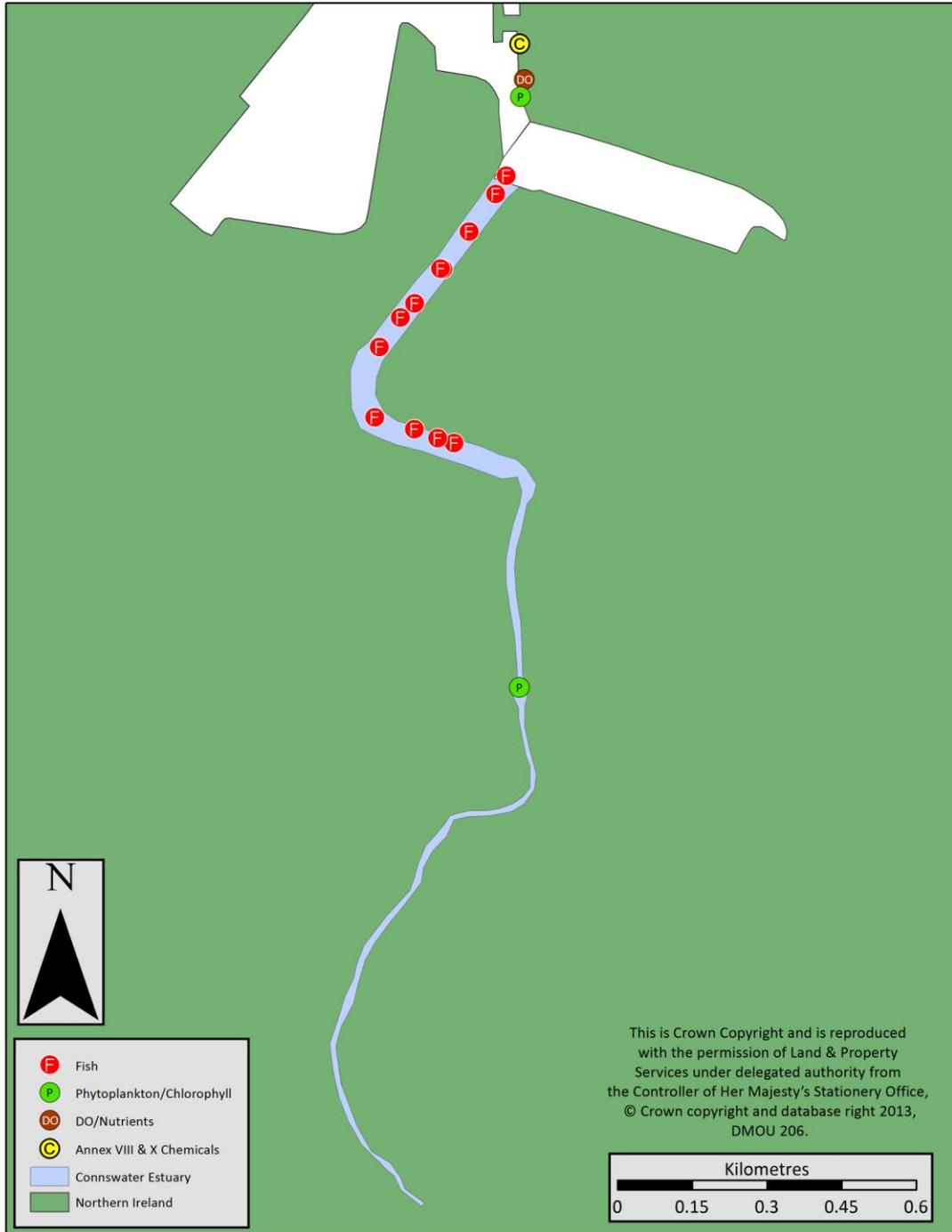


Figure 1: Waste water treatment pressures and monitoring points within Connswater Estuary (Transitional Water).

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Table 1: Parameters for which classification systems are available and have been used in this round of classification. Some biological assessment tools are not suitable for all water bodies due to habitat type.

Ecological Quality Element			
Main Element	Sub-Element	Applied	Comment
Macroalgae	Opportunistic Macroalgae	✓	Visual inspection of water body resulting in default classification (see QE for details)
Phytoplankton	Chlorophyll Biomass Index	✓	
	Elevated Taxa Count Index	✓	
Benthic Invertebrates	Infaunal Quality Index	☒	Tool under development; not signed off for transitional waters
Fish	Transitional Fish Classification Index	✓	
Physico-Chemical (water)	General Conditions		
	-Dissolved Oxygen	✓	
	-Nutrients	✓	
	Specific Pollutant (Annex VIII subs)	✓	
Hydromorphological Quality Elements	SEPA Rapid Designation	✓	
	TraC MIMAS	✓	
Chemical Status			
Priority Hazardous Substances (Annex X)	Annex X Substances	✓	

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Table 2: Sampling frequency for each quality element.

*Monitoring Level: Surveillance*

<b>Ecological</b>	<b>Data years contributing to classification</b>	<b>No. of sites/samples</b>
Phytoplankton - 90%ile	2010-2014	2 sites 49 samples
Fish   Transitional Fish Classification Index	2014	12 samples
<b>Physio-chemical</b>		
Nutrients	2008-2013	3 sites 35 samples
Dissolved Oxygen	2010-2015	132 daily averages
Specific pollutants (Annex VIII)	2013-2014	
<b>Hydromorphology</b>	2007	
<b>Water chemistry (Annex X)</b>		
Priority hazardous substances	2013-2014	

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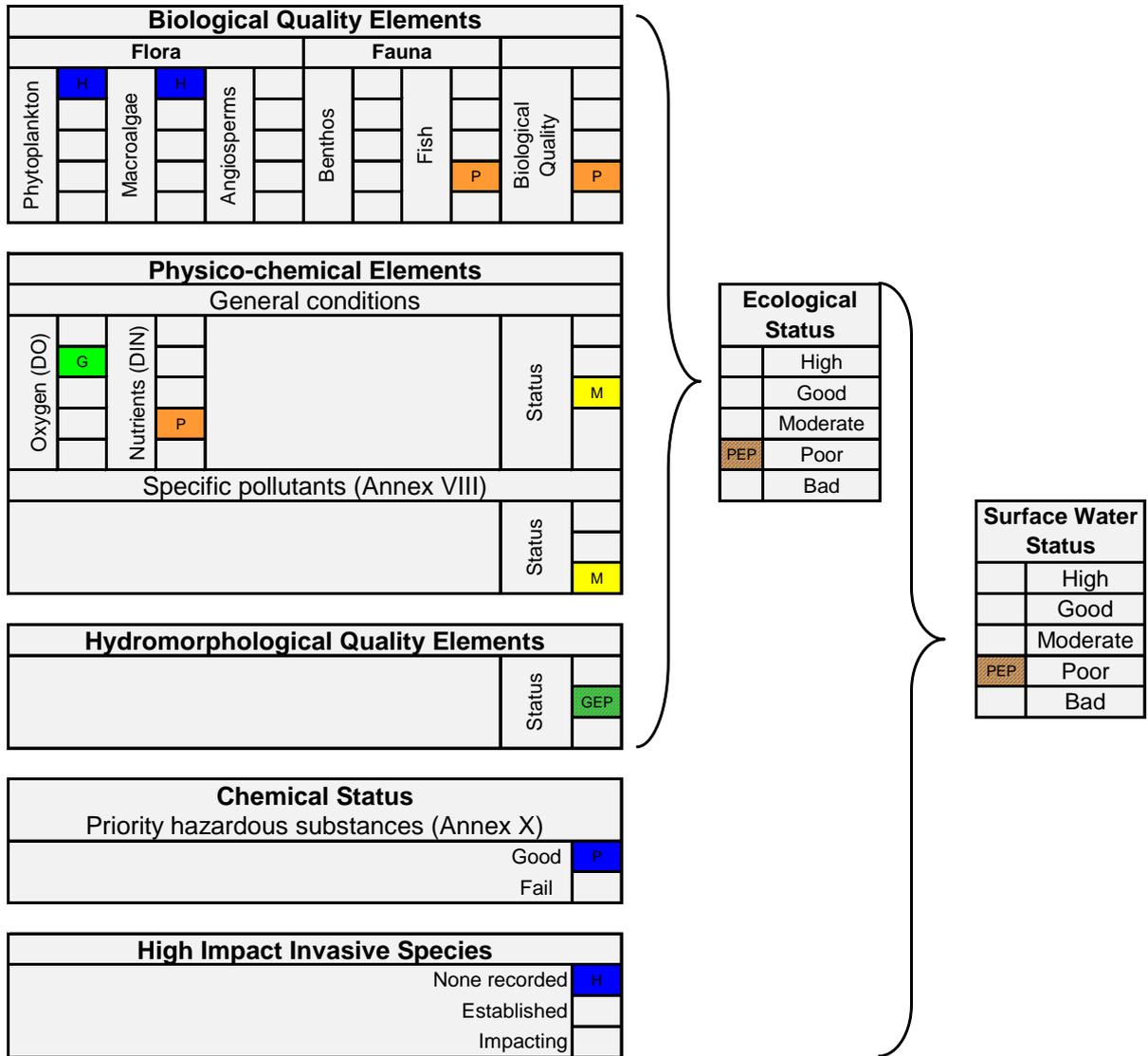


Figure 3: Overall classification of Connswater Estuary (Transitional Water)

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### ANNEX A: Classification of Biological Quality Elements

#### QE: Phytoplankton

QE phytoplankton assessment (+ Data confidence):	<b>HIGH (84.7%)</b>	
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### ANNEX A: Classification of Biological Quality Elements

#### Classification tools:

1. Chlorophyll biomass index (Transitional Waters)
2. Elevated Taxa Count Index -

- Data store (classification): <M:\Projects 12\Phycology 2012\Chlorophyll a\WFD Updates\Phytoplankton Updates 2012 data sheets\Transitionals to 2012\Connswater 90th Percentile.xls>
- [M:\Projects 14\Phycology 2014\MM14-14 Phytoplankton and Chlorophyll\classification 15\2015 Elevated Count Classification Update \(08-13 data\)\Transitionals\CONNSWATER classification - Copy.XLS](M:\Projects 14\Phycology 2014\MM14-14 Phytoplankton and Chlorophyll\classification 15\2015 Elevated Count Classification Update (08-13 data)\Transitionals\CONNSWATER classification - Copy.XLS)

- Data Availability (spot & continuous samples):  
Chl = spot (2010-2014) NIEA/MD

#### 1. Chlorophyll Biomass Index - (Chl $\mu\text{g l}^{-1}$ )

#### Waterbody Chl. biomass assessment

**High (34.3%)**

#### Thresholds:

Water Ref. Area		Status				
		High	Good	Moderate	Poor	Bad
North/Irish Sea	Chl $\mu\text{g l}^{-1}$	<5	5-10	10-15	15-20	>20
	EQR	0 -1.0	1.0-0.8	0.8-0.6	0.6-0.4	0.4-0.2

#### Results:

EQR	Status	Data Years	No. of Sites	No. of Samples	Data Confidence
1.0	<b>HIGH</b>	2010-2014	2	49	34.3%

Data confidence: Data analysed using CUTLASSV1.8 UKTAG

<M:\Projects 14\Phycology 2014\MM14-14 Phytoplankton and Chlorophyll\classification 15\2015TW Phytoplankton CofC tool CUTLASS v1.8 UKTAG.xls>

Data confidence is low for high Status (34.3%) but 61.4% for Good.

Data Quality temporally is good but spatially low due to the lack of available sites.

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## 2. Elevated Taxa Count Index

### Waterbody Elevated Taxa Assessment

#### Thresholds:

Tool	Thresholds	
	North/Irish Sea	Atlantic
I <sub>1</sub> - Individual Species Count%	250,000 (cells l <sup>-1</sup> )	
I <sub>2</sub> - Total Taxa Count%	10 <sup>6</sup> (cells l <sup>-1</sup> )	

#### EQR Boundaries:

% exceedances (Face value range)	Metric range (0-1)	Class
0 - <10	≥0.8 - 1.0	High
≥10 - < 20	≥0.6 - < 0.8	Good
≥20 - < 40	≥0.4 - < 0.6	Moderate
≥40 - <60	≥0.2 - < 0.4	Poor
≥60 - 100	≥0 - < 0.2	Bad

#### Results (% Exceedence)

I <sub>1</sub>	I <sub>2</sub>	EQR	Status	Data Years	No. of Julian months	No. of phytoplankton samples	Data confidence
14.3%	11.4%	0.74	<b>GOOD</b>	2011-2014	31	35	71.5%

## 3. Combined Chlorophyll and Elevated Count Tool for Waterbody

**HIGH (84.7%)**

## 4. Presence of High impact Species.

*Phaeocystis* sp.

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**QE: Macroalgae**

QE macroalgal assessment (+ data confidence):	HIGH (L)	
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**Classification tools:**

1. Reduced species list (RSL): Not applicable.
2. Macroalgal Blooming Tool (MBT): 2009

**2. MBT assessment: HIGH (Low)**

- WFD surveillance monitoring: 2009
- Data Store: [\\.\.\.\.\Algae\Fucoid Extent\Trans Waters\Connswater](#)
- Data Availability: Visual Inspection

**Boundaries:**

Parameters	Quality Status	High	Good	Moderate	Poor	Bad
	Sub-metric EQR	$\geq 0.8 - 1.0$	$\geq 0.6 - 0.8$	$\geq 0.4 - 0.6$	$\geq 0.2 - 0.4$	$0.0 - 0.2$
Available Intertidal Habitat (AIH) %		0 – 5	5 – 15	15 – 25	25 – 75	75 – 100
Affected Area (ha)		0 – 10	10 – 50	50 – 100	100 – 1000	1000 – 2000
Biomass of AIH (g m <sup>2</sup> )		0 – 100	100 – 500	500 – 1000	1000 – 3000	3000 - 6000
Biomass of affected area (g m <sup>2</sup> )		0 – 100	100 – 500	500 – 1000	1000 – 3000	3000 - 6000
Presence of entrained algae (% of quadrats)		0 – 1	1 – 5	5 – 20	20 – 50	50 – 100

**Results:**

Year	Sub-metric EQR					Mean EQR	Status
	% cover of AIH	Affected Area	Biomass of AIH	Biomass of affected area	Entrained algae		
2009	<5%						HIGH
					Mean		

**Data Confidence: Low**

- On classification boundary.
- Visual assessment carried out over intertidal area, if less than 5% cover no further survey required and shore classified as HIGH.
- Intertidal area assessed over two years.
- Satellite imagery or aerial photography may need to be considered to improve data confidence.

**Alien taxa:** No data

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QE Angiosperms – tool not applicable

QE: Benthic Invertebrates – tool under development for transitional waters

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**QE: Transitional Fish**

<b>QE transitional fish assessment (+ Data confidence):</b>	<b>POOR (100%)</b>	
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**Classification tools:** Transitional Fish Classification Index (TFCI)

**Data store:**

- **Fish:** [..\\..\\FISH\\DATA\\WFDClassification\\TFCI\\TFCI 2014\\TFCI 2014 Analysis.xlsx](#)
- **Supporting Parameters:** [Chemistry](#)

**Data Availability:**

- WFD surveillance monitoring 2005-2014; one survey in 2005, two surveys per annum from 2006 to 2011, one (autumn) survey in 2012, 2013 and 2014. Sampling methods include seine net, fyke net, and beam trawl.

**EQR boundaries:**

	<b>Bad</b>	<b>Poor</b>	<b>Moderate</b>	<b>Good</b>	<b>High</b>
EQR	<0.2	≥0.2; < 0.4	≥0.4; <0.6	≥0.6; < 0.8	≥0.8

**Results:**

Transitional Fish Classification Index (TFCI) – 2014 data

<b>Metric Number</b>	<b>Metric</b>	<b>Score</b>
1	Species composition	3
2	Presence of Indicator species	1
3	Species relative abundance	3
4	No. of taxa making up 90% of the abundance	3
5	No. of estuarine resident taxa	2
6	No. of estuarine-dependent marine taxa	2
7	Functional guild composition	4
8	No. of benthic invertebrate feeding taxa	2
9	No. of piscivorous taxa	1
10	Feeding guild composition	3
	<b>TFCI</b>	24
	<b>EQR</b>	0.35

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**Fish cont'd**

Percent Confidence of Class (bias corrected bootstrap method)

Bad	Poor	Moderate	Good	High
0.0	100.0	0.0	0.0	0.0

**Data confidence: High**

- Survey methodologies and protocols (High)
- Realistic type-specific reference conditions (Medium)
- Data QA (High)
- Statistical testing and intercalibration (High)

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## ANNEX B: Classification of physico-chemical Quality Elements: General

### QE: Dissolved Oxygen

Dissolved oxygen (+ data confidence):	GOOD (69%)	
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Classification tools: Comparison of 5% ile against reference standards.

- **Data Store:** ..\..\DO Classification 2012\Shortcut to DO FIELD VALUES 2006 -2010.Ink
- **Data Availability:** 2010-2015.
- **Data Availability (spot & continuous samples):** Spot

### Thresholds:

WFD Status	Marine 5%ile	Objectives
HIGH	≥5.7 mg/L	All life stages of salmonids and transitional fish
GOOD	≥4.0 <5.7 mg/L	Presence of salmonids and transitional fish
MODERATE	≥2.4 <4.0 mg/L	Most life stages of non-salmonid adults
POOR	≥1.6 <2.4 mg/L	Presence of non-salmonids, poor survival of salmonids
BAD	<1.6 mg/L	No salmonids present, marginal survival of resident species

### Results:

5% ile DO (mg/L)	Status	Data years	Data Quality	No. of daily averages	Data Coverage (proportion of possible months with data*)
5.56	GOOD	2010-15	**	132	

\* Proportion of possible months for which data are available

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**QE: Nutrients – N regulation**

<b>QE N regulation assessment (+ Data confidence):</b>	<b>POOR (99%)</b>	
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- **Data store:** [..\Transitional WB inc AFBI 15.xls](#)
- **Data Availability:** 2008 to 2013 DIN & salinity (Nov to Feb)
- **Data Availability (spot & continuous samples):** spot

**N regulation thresholds:**

Area	Salinity range	DIN (uM) Winter mean H/G	DIN (uM) Winter mean G/M	DIN (uM) Winter mean M/P
Transitional (at salinity 25)	5-25	20-30	30-45	45-67.5

**Results:**

Mean Winter DIN (uM) (normalised to salinity 25)	Winter DIN Daily average (n)	No. of sample s (n)	No. of sites	Data Years	Data Quality	Status
58.79*		35	3	2008 to 2013	Database not yet QA'd	<b>POOR</b>

\*Average DIN used as  $r^2$  value of regression model is less than 0.75

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**ANNEX C: Classification of physico-chemical quality elements: Specific Pollutants  
(Annex VIII)**

<b>Specific pollutants assessment (+data confidence)</b>	<b>MODERATE</b>	
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**Classification tools:** Comparison with EQS levels.

**Data assessed for 2015 Update:**

Suite	Parameter	Data Availability
Trace Organics	Permethrin	June 2013 – June 2014
Trace Organics	Cypermethrin	June 2013 – June 2014
Trace Organics	Toluene	Nov 2013 – Sept 2014
Trace Organics	Xylene	Nov 2013 – Sept 2014

**Other Pollutants – DSD list 2 (with existing EQS):**

Suite	Parameter	Data Availability

**EQS failures:**

*Cypermethrin*

**Link to Data, Assessment and EQSs:**

[G:\MARINE\Water Framework Directive\WFD ANNUAL CLASSIFICATION UPDATE 2015\2015 QE sheets](#)

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### ANNEX D: Hydromorphological quality elements

<b>Overall hydromorphology assessment</b>	<b>HMWB-GEP</b>	
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Classification tools:

1. TRaC Hydromorphology metrics
2. MIMAS

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### ANNEX E: Chemical Status - Annex X Chemicals

Priority hazardous substances (+data confidence)	GOOD	
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**Classification tools:** Comparison with EQS levels.

Annex X: Overall Compliance	Pass
Annex X: Pass/Fail	Pass

#### Data Assessed for 2015 Update:

Suite	Parameter	Data Availability
Trace Organics	Benzene	Nov 2013 – Sept 2014
Trace Organics	Nonylphenol	April 2014 – Dec 2014
Trace Organics	Octylphenol	April 2014 – Dec 2014
Pesticides	Pentachlorobenzene	April 2014 – Dec 2014
Pesticides	Trifluralin	April 2014 – Dec 2014
Pesticides	HCH	April 2014 – Dec 2014
Pesticides	Hexachlorobenzene	April 2014 – Dec 2014
Pesticides	Alachlor	April 2014 – Dec 2014
Pesticides	Cyclodienes	April 2014 – Dec 2014
Pesticides	Endosuphan	April 2014 – Dec 2014
Pesticides	DDT	April 2014 – Dec 2014
Pesticides	pp DDT	April 2014 – Dec 2014

**EQS failures:**

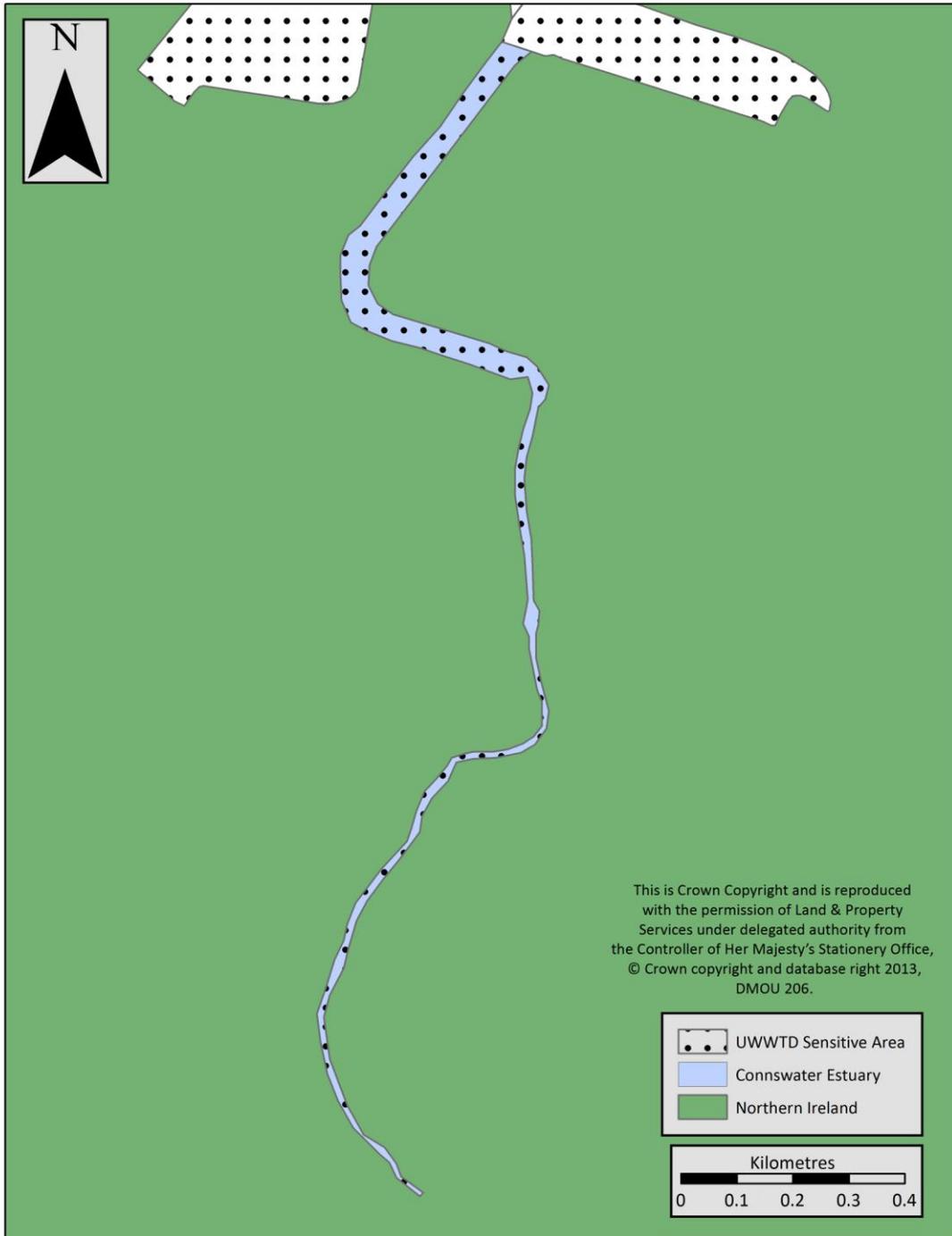
*None*

**Link to Data, Assessment and EQSs:**

<G:\MARINE\Water Framework Directive\WFD ANNUAL CLASSIFICATION UPDATE 2015\2015 QE sheets>

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### ANNEX F: Protected Areas



Protected areas within Connswater Estuary (Transitional Water).

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The following Protected Areas are situated either wholly or partly within the Connswater Estuary water body:

**Nitrates Directive/ Urban Waste Water Treatment Directive Sensitive Areas:**

- Inner Belfast Lough UWWTD Sensitive Area

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### ANNEX G: High Impact Invasive Species

QE High Impact Invasive Species assessment	<b>HIGH</b>
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#### Ecoregion 17 Marine High Impact Invasive Species List

Phylum	Species	P	E	I	Record
Chordata	<i>Didemnum</i> spp.				
Chordata	<i>Styela clava</i>				
Crustacea	<i>Eriocheir sinensis</i>				
Mollusca	<i>Crassostrea gigas</i>				
Mollusca	<i>Crepidula fornicata</i>				
Phaeophyceae	<i>Sargassum muticum</i>				
Angiosperms	<i>Spartina anglica</i>				

P= Present; E= Established; I= Impacting

NB Established populations of high impact species automatically downgrade overall surface water classification from 'high' to 'good'.

Record should be inputted as follows. PO= personal observation outside of surveys; W= WFD survey; M= museum / institute records.

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## GLOSSARY

<b>AFBI</b>	Agri-Food and Biosciences Institute (under contract to NIEA)
<b>AMBI</b>	AZTI Marine Biotic Index
<b>Annex X</b>	Annex 10 Priority Hazardous Substances
<b>Annex VIII</b>	Annex 8 Specific Pollutants
<b>Article 5</b>	Characterisation, typology, pressures and impacts analysis
<b>ASSI</b>	Area of Special Scientific Interest
<b>DIN</b>	Dissolved Inorganic Nitrogen
<b>DO</b>	Dissolved Oxygen
<b>EQR</b>	Ecological Quality Ratio
<b>EQS</b>	Ecological Quality Status
<b>EUNIS</b>	European Nature Information System
<b>FSL</b>	Full Species List
<b>GEP</b>	Good Ecological Potential
<b>gH</b>	Good/High
<b>H/G/M/P/B</b>	High/Good/Moderate/Poor/Bad (Classification Status)
<b>H/ML</b>	High/Medium/Low (Confidence)
<b>HMWB</b>	Heavily Modified Water Body
<b>IQI</b>	Infaunal Quality Index
<b>IRBD</b>	International River Basin District
<b>LOD</b>	Limit of Detection
<b>MBT</b>	Macroalgal Blooming Tool
<b>MEP</b>	Moderate Ecological Potential
<b>NB</b>	Neagh Bann
<b>ND</b>	No data
<b>NE</b>	North Eastern
<b>NEAGIG</b>	North Eastern Atlantic Geographical Intercalibration Group
<b>NIEA</b>	Northern Ireland Environment Agency
<b>N-regs</b>	Nitrogen Regulation
<b>NVZ</b>	Nitrate Vulnerable Zone
<b>NW</b>	North Western
<b>Physico-chem</b>	Physical and chemical monitoring
<b>RSL</b>	Reduced Species List
<b>SAC</b>	Special Area of Conservation
<b>SEPA</b>	Scottish Environment Protection Agency
<b>SPA</b>	Special Protected Area
<b>TNA</b>	Tool Not Applicable
<b>TraC MImAS</b>	Transitional and Coastal Morphology Impact Assessment System
<b>TUD</b>	Tool Under Development
<b>UKAS</b>	United Kingdom Accreditation Service
<b>UKTAG</b>	United Kingdom Technical Advisory Group for Water Framework Directive
<b>UNICORN</b>	Database for marine organisms.
<b>UWWTD</b>	Urban Waste Water Treatment Directive (91/271/EEC)
<b>VDSI</b>	Vas Deferens Sequence Index
<b>WFD</b>	Water Framework Directive