

## Tweed Estuary SAC Simple Assessment

Habitat Regulations Assessment document: TSAC – tLSE001

<p><b>European Marine Site:</b></p> <p><b>Generic sub-feature(s):</b></p> <p><b>Gear type(s):</b></p> <p><b>NIFCA tLSE type:</b></p> <p><b>Gear/feature interaction reference(s):</b></p>	<p><b>Tweed Estuary SAC</b></p> <p>Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and Sea lamprey, Intertidal Coarse Sediment</p> <p>Heavy otter trawl</p> <p>Simple</p> <p>TSAC - 001          TSAC - 002          TSAC - 003          TSAC - 004          TSAC - 005          TSAC - 006          TSAC - 007          TSAC - 008          TSAC - 009          TSAC - 010          TSAC – 334</p>
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<b>Revision history</b>		
<i>Date</i>	<i>Revision</i>	<i>Editor</i>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### **Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p>

	<p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulation Assessment document: TSAC – tLSE 002**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and Sea lamprey, Intertidal coarse sediment</b>
<b>Gear type(s):</b>	<b>Light otter trawl</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 012 TSAC - 013 TSAC - 014 TSAC - 015 TSAC - 016 TSAC - 017 TSAC - 018 TSAC - 019 TSAC - 020 TSAC - 021 TSAC - 335</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p>

	The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and sub-features identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2015</b>
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Table 1| Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and Sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Anchor seine
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 023 TSAC - 024 TSAC - 025 TSAC - 026 TSAC - 027 TSAC - 028 TSAC - 029 TSAC - 030 TSAC - 031 TSAC - 032 TSAC - 336

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### **Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.)</p>

	<p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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Table 1| Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulations Assessment document: TSAC – tLSE 004**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and Sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Scottish/fly seine
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 034 TSAC - 035 TSAC - 036 TSAC - 037 TSAC - 038 TSAC - 039 TSAC - 040 TSAC - 041 TSAC - 042 TSAC - 043 TSAC - 337

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.

	<p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1| Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



## Habitats Regulations Assessment document: TSAC – tLSE 005

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and Sea lamprey</b>
<b>Gear type(s):</b>	<b>Mid-water trawl (single)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 054</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1| Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 007

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and Sea lamprey</b>
<b>Gear type(s):</b>	<b>Industrial trawls</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 076</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1| Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 008

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, Intertidal coarse sediment</b>
<b>Gear type(s):</b>	<b>Dredges (towed): Scallops</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 078 TSAC - 079 TSAC - 080 TSAC - 081 TSAC - 082 TSAC - 083 TSAC - 084 TSAC - 085 TSAC – 086 TSAC - 088</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (no scallop grounds) (Jon Green, pers. comms.).</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p>

	The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	
<b>NIFCA tLSE type:</b>	Dredges (towed): Mussels, clams, oysters
<b>Gear/feature interaction reference(s):</b>	Simple TSAC - 089 TSAC - 090 TSAC - 091 TSAC - 092 TSAC - 093 TSAC - 094 TSAC - 095 TSAC - 096 TSAC - 097 TSAC - 098 TSAC - 099

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### **Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p>

	<p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
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Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



**Habitats Regulations Assessment document: TSAC – tLSE 010**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	
<b>NIFCA tLSE type:</b>	Pump scoop (cockles, clams)
<b>Gear/feature interaction reference(s):</b>	Simple TSAC - 100 TSAC - 101 TSAC - 102 TSAC - 103 TSAC - 104 TSAC - 105 TSAC - 106 TSAC - 107 TSAC - 108 TSAC - 109 TSAC - 110

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (no cockle/clam stocks) (Jon Green, pers. comms.).</p>

	<p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Suction (cockles)
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 111 TSAC - 112 TSAC - 113 TSAC - 114 TSAC - 115 TSAC - 116 TSAC - 117 TSAC - 118 TSAC - 119 TSAC - 120 TSAC - 121

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### **Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.

	<p>Activity historically does not occur within the Tweed Estuary SAC (no cockle stocks) (Jon Green, pers. comms.).</p> <p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulations Assessment document: TSAC – tLSE 012**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Dredges (other): Tractor
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 122 TSAC - 123 TSAC - 124 TSAC - 125 TSAC - 126 TSAC - 127 TSAC - 128 TSAC - 129 TSAC - 130 TSAC - 131 TSAC - 132

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	QA	

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.).</p>

	<p>Activity prohibited outside the Tweed Estuary SAC: NIFCA Byelaw 7: Prohibition of the use of mobile fishing gear within the English section of the Berwickshire and North Northumberland SAC.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 013

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Estuarine rock, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Intertidal boulder and cobble reef, Intertidal coarse sediment</b>
<b>Gear type(s):</b>	<b>Handwork (access from vessel)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC – 135 TSAC - 137 TSAC - 138 TSAC – 139 TSAC – 141 TSAC - 143</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



**Habitats Regulations Assessment document: TSAC – tLSE014**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediments, Subtidal mixed sediment, Intertidal boulder and cobble reef, Intertidal coarse sediment
<b>Gear type(s):</b>	Pots/creels (crustacea/gastropods)
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 150 TSAC - 151 TSAC - 152 TSAC - 153 TSAC - 154 TSAC - 155 TSAC - 156 TSAC - 157 TSAC - 158 TSAC - 160

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document’s creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Potting for Green crab used to occur within the estuary but hasn’t taken place for about 15 years. No other species have been known to be prosecuted within the Tweed SAC using pots/creels (Jon Green, pers. comms.).</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs</p>

	(JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 015

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediments, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Cuttle pots
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 161 TSAC - 162 TSAC - 163 TSAC - 164 TSAC - 165 TSAC - 166 TSAC - 167 TSAC - 168 TSAC - 169 TSAC - 170 TSAC - 171

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (or the NIFCA district as a whole) (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs</p>

	(JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulations Assessment document: TSAC – tLSE 016**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediments, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Fish traps
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 172 TSAC - 173 TSAC - 174 TSAC - 175 TSAC - 176 TSAC - 177 TSAC - 178 TSAC - 179 TSAC - 180 TSAC - 181 TSAC - 182

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs</p>

	(JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 017

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and sea lamprey</b>
<b>Gear type(s):</b>	<b>Drift nets (pelagic)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 225</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

**No**

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



## Habitats Regulations Assessment document: TSAC – tLSE 018

<p><b>European Marine Site:</b></p> <p><b>Generic sub-feature(s):</b></p> <p><b>Gear type(s):</b></p> <p><b>NIFCA tLSE type:</b></p> <p><b>Gear/feature interaction reference(s):</b></p>	<p><b>Tweed Estuary SAC</b></p> <p>Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment</p> <p>Drift nets (demersal)</p> <p>Simple</p> <p>TSAC - 227                  TSAC - 228                  TSAC - 229                  TSAC - 230                  TSAC - 231                  TSAC - 232                  TSAC - 233                  TSAC - 234                  TSAC - 235                  TSAC - 236                  TSAC - 237</p>
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<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically doesn't occur within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>Effectively regulated by the Tweed Commission and the River Tweed Order 2006 which prohibits targeted fishing for salmon or</p>

	<p>freshwater fish using any means other than a rod and line or net and coble).</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulations Assessment document: TSAC – tLSE 019**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediments, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Longlines (demersal)
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 238 TSAC - 239 TSAC - 240 TSAC - 241 TSAC - 242 TSAC - 243 TSAC - 244 TSAC - 245 TSAC - 246 TSAC - 247 TSAC - 248

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs</p>

	(JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 020

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and sea lamprey</b>
<b>Gear type(s):</b>	<b>Longlines (pelagic)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 258</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

### Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

### Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE021

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and sea lamprey</b>
<b>Gear type(s):</b>	<b>Handlines (rod/gurdy etc.)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 269</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within Tweed Estuary SAC (Jon Green, pers. comms.).</p> <p>Recreational prosecution of migratory fish species e.g. Salmon, Sea Trout and Brown trout (which are not designated features of the SAC) using rod and line does occur on the Tweed. However, this activity is regulated by the Tweed Commission and the Environment Agency.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



## Habitats Regulations Assessment document: TSAC – tLSE022

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>River and sea lamprey</b>
<b>Gear type(s):</b>	<b>Jigging/trolling</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC - 280</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 025

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rocks, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, Intertidal coarse sediment
<b>Gear type(s):</b>	Commercial diving
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 304 TSAC - 305 TSAC - 306 TSAC - 307 TSAC - 308 TSAC - 309 TSAC - 310 TSAC - 311 TSAC - 312 TSAC - 313 TSAC – 314

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM
11/12/2015	Features amended	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Activity historically does not occur within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1)</p>

	at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.
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## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

## Habitats Regulations Assessment document: TSAC – tLSE 027

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Estuarine rocks, Intertidal boulder and cobble reef</b>
<b>Gear type(s):</b>	<b>Digging with forks</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC – 328 TSAC - 330</b>

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
23/04/2015	Document created	SM

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No interaction of activity with features listed within the Tweed Estuary SAC.</p> <p>Bait digging does not occur on estuarine rock, intertidal boulder or cobble reef.</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>

## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	05/02/2016
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Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.

Feature	Conservation Advice Sub feature	NIFCA/NE sub-feature (expert judgement)
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey

**Habitats Regulations Assessment document: TSAC – tLSE 031**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Estuarine rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and sea lamprey, Intertidal coarse sediment
<b>Gear type(s):</b>	Beach seine/ring nets
<b>NIFCA tLSE type:</b>	Simple
<b>Gear/feature interaction reference(s):</b>	TSAC - 282 TSAC - 283 TSAC - 284 TSAC - 285 TSAC - 286 TSAC - 287 TSAC - 288 TSAC - 289 TSAC - 290 TSAC - 291 TSAC - 292

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
11/12/2015	Document created	SM

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No current activity within the Tweed Estuary SAC (Jon Green, pers. comms.)</p> <p>One berth remains on the Tweed SAC however it is not currently fished and is effectively regulated by the Tweed Commission and the River Tweed Order 2006 which prohibits targeted fishing for</p>

	<p>salmon or freshwater fish using any means other than a rod and line or net and coble).</p> <p>The Tweed Estuary SAC has never had Regulation 33/35 advice since designation in 2000. The working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016 draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	<b>Yes</b>
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<b>Date of document completion/'sign-off':</b>	<b>05/02/2016</b>
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries		Subtidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey



**Habitats Regulations Assessment document: TSAC – tLSE 032**

<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>												
<b>Generic sub-feature(s):</b>	Subtidal gravel and sand, Subtidal muddy sand, Intertidal rock, Infralittoral rock, Subtidal mud, Intertidal mud, Intertidal mud and sand, Intertidal mixed sediment, Subtidal mixed sediment, Intertidal boulder and cobble reef, River and Sea lamprey, Intertidal coarse sediment												
<b>Gear type(s):</b>	Crab tiling												
<b>NIFCA tLSE type:</b>	Simple												
<b>Gear/feature interaction reference(s):</b>	<table border="0"> <tr> <td>TSAC – 315</td> <td>TSAC – 316</td> <td>TSAC - 317</td> </tr> <tr> <td>TSAC – 318</td> <td>TSAC – 319</td> <td>TSAC - 320</td> </tr> <tr> <td>TSAC – 321</td> <td>TSAC – 322</td> <td>TSAC - 323</td> </tr> <tr> <td>TSAC – 324</td> <td>TSAC - 325</td> <td></td> </tr> </table>	TSAC – 315	TSAC – 316	TSAC - 317	TSAC – 318	TSAC – 319	TSAC - 320	TSAC – 321	TSAC – 322	TSAC - 323	TSAC – 324	TSAC - 325	
TSAC – 315	TSAC – 316	TSAC - 317											
TSAC – 318	TSAC – 319	TSAC - 320											
TSAC – 321	TSAC – 322	TSAC - 323											
TSAC – 324	TSAC - 325												

<b>Revision history</b>		
<b><i>Date</i></b>	<b><i>Revision</i></b>	<b><i>Editor</i></b>
18/09/2018	Document created	NW
11/11/2024	Reviewed by NE	SR/PW
12/11/2024	Document finalised	SR

**Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>No Activity within the Tweed Estuary SAC (Jon Green, Nick Weir and Mark Southerton pers. comm).</p>

## Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	Yes
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<b>Date of document completion/sign-off:</b>	11/11/2024
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<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Intertidal mud and sand, Intertidal mud, Intertidal mixed sediment, Intertidal coarse sediment, Infralittoral rock</b>
<b>Gear type(s):</b>	<b>Handwork (access from land)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC – 339 Intertidal sand and muddy sand TSAC – 340 Intertidal mud TSAC – 341 Infralittoral rock TSAC – 342 Intertidal mixed sediment TSAC – 344 Intertidal coarse sediment</b>

<b>Revision history</b>		
<b>Date</b>	<b>Revision</b>	<b>Editor</b>
28/09/2018	Document created	AA
26/07/2022	Infralittoral rock included and amended	KS
11/11/2024	Reviewed by NE	SR/PW
12/11/2024	Documents finalised	SR

## Test for Likely Significant Effect (LSE)

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>NIFCA officers record sightings of intertidal hand work activity observed during routine patrols when a site visit coincides with low water (<math>\pm 2</math> hours). Between January 2016 and March 2022, one individual was recorded collecting periwinkles (April 2021) by officers and two records of four individuals collecting (May and July 2021) by the River Tweed Commission within Tweed Estuary SAC, all sightings were on the intertidal rock feature within the site. This interaction has been assessed in another document (TSAC tLSE 031). Based on expert judgement, intertidal handwork in Northumberland IFCA district involves collection of periwinkles (<i>Littorina littorea</i>), mussels (<i>Mytilus edulis</i>) or <i>Salicornia</i> sp. by hand or cleeking for European lobster (<i>Hommarus gammerus</i>).</p>

	These activities do not occur at this site on the features listed above (Jon Green, pers. comms.). Collection of <i>M. edulis</i> and <i>Salicornia</i> sp. does not occur as the species are not present at the site.
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	Yes.
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<b>Date of document completion/'sign-off':</b>	11/11/2024 (Pete Welby)
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<b>European Marine Site:</b>	<b>Tweed Estuary SAC</b>
<b>Generic sub-feature(s):</b>	<b>Intertidal mud and sand, Intertidal mud, Intertidal mixed sediment, Intertidal coarse sediment, Infralittoral rock</b>
<b>Gear type(s):</b>	<b>Handwork (access from land)</b>
<b>NIFCA tLSE type:</b>	<b>Simple</b>
<b>Gear/feature interaction reference(s):</b>	<b>TSAC – 339 Intertidal sand and muddy sand TSAC – 340 Intertidal mud TSAC – 341 Infralittoral rock TSAC – 342 Intertidal mixed sediment TSAC – 344 Intertidal coarse sediment</b>

<b>Revision history</b>		
<b>Date</b>	<b>Revision</b>	<b>Editor</b>
28/09/2018	Document created	AA
26/07/2022	Infralittoral rock included and amended	KS

### **Test for Likely Significant Effect (LSE)**

<b>Potential for Likely Significant Effect?</b>	No
<b>Justification and evidence</b>	<p>Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document’s creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this formal process.</p> <p>Based on expert judgement, intertidal handwork in Northumberland IFCA district involves collection of periwinkles (<i>Littorina littorea</i>), mussels (<i>Mytilus edulis</i>) or <i>Salicornia</i> sp. by hand or cleeking for European lobster (<i>Hommarus gammerus</i>). These activities do not occur at this site on the features listed above (Jon Green, pers. comms.) Collection of <i>M. edulis</i> and <i>Salicornia</i> sp. does not occur as the species are not present at the site.</p> <p>NIFCA officers record sightings of intertidal hand work activity observed during routine patrols when a site visit coincides with low water (<math>\pm 2</math> hours). Between January 2016 and March 2022, one individual was recorded collecting periwinkles (April 2021) by officers and two records of four individuals collecting (May and July 2021) by the River Tweed Commission within Tweed Estuary SAC.</p>

	<p>In previous assessments for the Tweed Estuary SAC there was no conservation advice or Regulation 33/35. At the time, a working group of NIFCA eIFCOs (JG, JR, SA) and Natural England lead adviser (CS) assigned features and sub-features based on expert judgement (see table 1) at the beginning of the project. As of January 2016, draft Conservation Advice was made available, the features and sub-features neatly correlate with the features and subfeatures identified previously, as shown in Table 1.</p> <p><i>Infralittoral rock</i></p> <p>There is currently no site-specific evidence available for the infralittoral rock sub-feature within the Tweed Estuary. Information will be updated when it becomes available.</p>
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## Conclusion

**Is the proposal likely to have a significant effect 'alone or in combination' on the Tweed SAC?**

No

<b>Has Natural England been formally consulted on this tLSE (and do they agree)?</b>	
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<b>Date of document completion/'sign-off':</b>	
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**Table 1 | Correlation table of Expert Judgment and Draft Conservation Advice feature.**

<b>Feature</b>	<b>Conservation Advice Sub feature</b>	<b>NIFCA/NE sub-feature (expert judgement)</b>
Estuaries	Subtidal coarse sediments	Subtidal gravel and sand
Estuaries	Subtidal sand	Subtidal muddy sand
Estuaries	Infralittoral rock	Estuarine rock
Estuaries	Subtidal mixed sediments	Subtidal mixed sediment
Estuaries	Intertidal mud	Intertidal mud
Estuaries	Intertidal rock	Intertidal boulder and cobble reef
Estuaries	Intertidal coarse sediment	
Estuaries	Intertidal mixed sediments	
Estuaries	Intertidal sand & muddy sand	
Mudflats & sandflats not covered by seawater at low tide	Intertidal mud	Intertidal mud
Mudflats & sandflats not covered by seawater at low tide	Intertidal sand & muddy sand	Intertidal mud and sand
Mudflats & sandflats not covered by seawater at low tide	Intertidal mixed sediments	Intertidal mixed sediment
Mudflats & sandflats not covered by seawater at low tide	Intertidal coarse sediment	
Annex II species	River lamprey ( <i>Lampetra fluviatilis</i> )	River & Sea lamprey
Annex II species	Sea lamprey ( <i>Petromyzon marinus</i> )	River & Sea lamprey