Portland Harbour Authority Invasive Non-native Species Plan

Tables 1 - 4

Version September 2020

CONTENTS

- Table 1. Invasive non-native species (UKTAG Classification) Animal Species
- Table 2. Invasive non-native species (UKTAG Classification) Plant Species
- Table 3. Non-native species Animal Species
- Table 4. Non-native species Plant Species

Invasive non-native species - Animal Species (based on UKTAG Classification)

Row highlighted red signifies species is recorded in Portland Harbour and surroundings according to reviewed literature sources and is considered to be of High/ Moderate Impact

Row highlighted orange signifies species is recorded in Portland Harbour and surroundings according to reviewed literature sources and considered to be of Low/ Unknown Impact

Row highlighted green signifies species is not recorded from the area, regardless of its potential impact.

Row left white - see columns X and Y for details

*Note - It should be noted that in assessing presence of species in Portland Harbour and surroundings this is limited to information available through literature review therefore species may be present that have not yet been found and recorded. Version September 2020

Common Name	Species	Impact	
Slipper limpet	Crepidula fornicata	High	
Colonial tunicate	Non-native Didemnum spp. High		
Leathery sea squirt	Styela clava High		
American lobster	Homarus americanus	High	
Asian shore crab	Hemigrapsus sangulneus	High	
Japanese skelton shrimp	Caprella mutica	Moderate	
Pacific oyster	Magallana (frm Crassostrea) gigas	Moderate	
Marine amphipod	Corophium (Monocorophium) sextonae	Low	
Darwin's barnacle	Austrominius (fmm Elminius) modestus	Low	
American hard-shell clam	Mercenaria mercenaria	Low	
Sea spider	Ammothea hilgendorfi	Unknown	
Striped barnacle	Amphibalanus (Frm Balanus) amphitrite	Unknown	
Marine ostracod	Eusarsiella zostericola	Unknown	
Orange-striped sea anemone	Diadumene (frm. Haliplanella) lineata	Unknown	
Soft-shelled clam	Mya arenaria	Unknown	
American piddock	Petricola pholadiformis	Unknown	
Marine mollusc	Pinctada imbricata radiata	Unknown	
American oyster drill	Urosalpinx cinerea	High	
Brush Claw Crab	Hemigrapsus takanoi	High	
Chinese mitten crab	Eriocheir sinensis	High	
Jenkins' spire shell	Potamopyrgus antipodarum	Moderate	
Magellan mussel	Aulacomya ater	Low	
Bamboo worm	Clymenella torquata	Low	
Marine polychaete	Marenzellaria viridis	Low	
New Zealand flat oyster	Ostrea lutaria	Low	
Polychaete	Hypania invalida	Unknown	
Sterlet/Sturgeons	All species except A. sturio , which is protected on Schedule 5 of the Wildlife & Countryside Act	Unknown	
Marine copepod	Acartia tonsa	Unknown	
Marine hydroid	Pachycordyle (fmm. Clavopsella) navis Unknown		
American jack knife clam	Ensis leei (americanus)	Unknown	
Marine polychaete	Goniadella gracilis	Unknown	
Marine hydrozoan	Gonionemus vertens	Unknown	
Kuruma prawn	Penaeus (Marsupenaeus) japonicus Unknown		
Dark false mussel	Mytilopsis leucophaeata	Unknown	
Zuiderzee or dwarf crab	Rhithropanopeus harrisii Unknown		
Marine tube worm	Hydroides dianthus Unknown		
Marine tube worm	Hydroides ezoensis Unknown		
Marine tube worm	Neodexiospira (frm Janua) brasiliensis Unknown		
Marine tube worm	Pileolaria berkeleyana	Unknown	

Invasive non-native species (INNS)/ UKTAG Classification - Plant Species

Row highlighted red signifies species is recorded in Portland Harbour and surroundings according to reviewed literature sources and is considered to be of High/ Moderate Impact

Row highlighted orange signifies species recorded in Portland Harbour and surroundings according to reviewed literature sources and considered to be of Low/ Unknown Impact

Row highlighted green signifies species is not recorded from the area, regardless of its potential impact.

Row left white - see columns X and Y for details

*Note - It should be noted that in assessing presence of species in Portland Harbour and surroundings this is limited to information available through literature review therefore species may be present that have not yet been found and recorded. Version September 2020

Common Name	Species	Impact	
Devil's tongue weed	Grateloupia turuturu	High	
Japanese kelp	Undaria pinnatifida	High	
Bonnemaison's Hook Weed	Bonnemaisonia hamifera	Moderate	
Common cord-grass, Townsend's grass or rice grass	Spartina anglica	High	
Red alga	Antithamnionella spirographidis	Unknown	
Red alga	Antithamnionella ternifolia	Unknown	
Japanese seaweed	Sargassum muticum	Low	
Harpoon weed	Asparagopsis armata	Low	
Grateloup's fringed weed	Grateloupia subpectinata (form Grateloupia filicina var. luxurians)	Unknown	
Harvey's siphon weed	Melanothamnus harveyi, (Frm Polysiphonia/Neosiphonia)	Unknown	
Solier's string weed	Solieria chordalis	Low	
Green seaweeds	Codium fragile ssp. fragile (frm C. fragile ssp tomentosoides)	Unknown	
Oyster thief	Colpomenia peregrina	Unknown	
Worm wart weed, Black wart weed	Agarophyton (frm Gracilaria) vermiculophylla	High	
Captain pike's weed	Pikea californica	Low	
Diatom	Coscinodiscus wailesii	Unknown	
Red alga	Agardhiella subulata		
Green fingers	Codium fragile ssp. atlanticum		
Diatom	Odontella sinensis,	Unknown	
Diatom	Pleurosigma simonsensii	ensii Unknown	
Diatom	Thalassiosira punctigera	Unknown	
Diatom	Thalassiosira tealata	Unknown	

Non-native species* - animals

(*Not included in WFD UK TAG classification therefore not considered invasive however listed here following review by Lin Baldock 2019, updated 2020 and with need for further review as to invasive potential)

Row highlighted red signifies species is recorded in Portland Harbour and surroundings according to reviewed literature sources and is considered to be of High/ Moderate Impact according to assessment by Lin Baldock

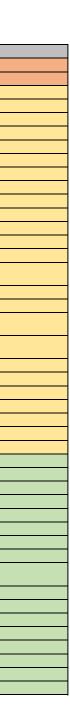
Row highlighted orange signifies species recorded in Portland Harbour and surroundings according to reviewed literature sources and considered to be of Low/ Unknown Impact according to assessment by Lin Baldock

Row highlighted green signifies species is not recorded from the area, regardless of its potential impact.

Row left white - see columns X and Y for details

*Note - It should be noted that in assessing presence of species in Portland Harbour and surroundings this is limited to information available through literature review therefore species may be present that have not yet been found and recorded. Version September 2020

Common Name	Species	Impact
Polychaete Worm	Ficapotamus enigmaticus	Medium
Compass sea squirt	Asterocarpa humilis	High
Starlet Sea anemone	Nematostella vectensis	Low
Tufty-buff bryozoan	Tricellaria inopinata	Low
Ruby Bryozoan	Bugula neritina	Low
Orange cloak sea squirt	Botrylloides violaceus	Low
San Diego sea squirt	Botrylloides diegensis	Low
Orange tipped sea squirt	Corella eumyota	Low
Creeping sea squirt	Perophora japonica	Low
Manilla Clam	Ruditapes philippinarum	Low
Bryozoan	Amathia gracilis	Low
Polychaete	Sternaspis scutata	Low
Bryozoan	Bugulina (frm Bugula) fulva	Low
Bryozoan	Bugulina (frm Bugula) simplex	Low
Bryozoan	Bugulina (frm Bugula) stolonifera	Low
	Ciona robusta	
Vase tunicate	(as C. intestinalis)	Low
Sabellid worm	Desdemona ornata	Low
Ostracod	Eusarsiella zostericola	Low
Four-spotted gribble	Limnoria	
rour sporced ground	quadripunctata	
Marine tube worm	Metavermilia	Low
Parasitic copepod	multicristata Mytilicola intestinalis	Moderate
Common shipworm	Teredo navalis	Widdrate
Red ribbon bryozoan	Watersipora subatra	High
Colonial tunicate	Botrylloides sp X	Unknown
Colonial tunicate	Aplidium cf glabrum	Moderate
Bay barnacle		Moderate
Asian date mussel	Amphibalanus improvisus Arcuatula senhousia	Unknown
Marine copepod		Low
Tubificid worm	Acartia margalefi	LOW
	Branchiura sowerbyi	
American or Eastern Oyster	Crassostrea virginica	
Crab	Dyspanopeus sayi	Low
Amphipod crustacean	Gammarus tigrinus	
Marine tube worm	Hydroides elegans	
Entoproct	Loxomitra kefersteinii	Low
New Zealand flat oyster	Ostrea chilensis Palaemon	
Oriental prawn	macrodactylus	Low
Marine tube worm	Paralaeospira malardi	Low
Parasitic copepod	Phyllodicola petiti	Low
Trembling seamat	Victorella pavida	Low
Orange-ripple bryozoan	Schizoporella japonica	High
Barnacle	Hespirbalanus (Solidobalanus) fallax	Low
Cauliflower sponge	Celtodoryx ciocalyptoides	Medium
Ctenophore	Mnemiopsis leidyi	Medium/ High
Pile worm	Alitta succinea	



Non-native species* - plants

(*Not included in WFD UK TAG classification therefore not considered invasive however listed here following review by Lin Baldock 2019, updated 2020 and with need for further review as to invasive potential)

Row highlighted red signifies species is recorded in Portland Harbour and surroundings according to reviewed literature sources and is considered to be of High/ Moderate Impact according to assessment by Lin Baldock

Row highlighted orange signifies species recorded in Portland Harbour and surroundings according to reviewed literature sources and considered to be of Low/ Unknown Impact according to assessment by Lin Baldock

Row highlighted green signifies species is not recorded from the area, regardless of its potential impact.

Row left white - see columns X and Y for details

*Note - It should be noted that in assessing presence of species in Portland Harbour and surroundings this is limited to information available through literature review therefore species may be present that have not yet been found and recorded.

Common Name	Species	Impact
Red algae	Dasysiphonia (frm Heterosiphonia) japonica	Medium
Pom-pom weed	Caulacanthus okamurae	Medium
Parasitic protist	Labyrinthula zosterae	High
Red Algae	Anotrichium furcellatum	Low
Wart weed	Gracilaria armata	Unknown
Wright's Golden membrane weed	Botryocladia (frm Chrysymenia) wrightii	Unknown
Blue fringed fan weed	Dictyota cyanoloma	Unknown
Brown algae	Corynophlaea umbellata	Low
Red alga	Cryptonemia hibernica	Low
Red alga	Anithamnion nipponicum	Low

* See notes - Brodie et al (2015)

Species listed by these authors and not included in other lists are provided below

Red alga	Aglaothamnion feldmanniae	Low
Red alga	Ceramium circinatum	Low
Red alga	Neopyropia (frm Porphyra) leucosticta	Unknown
Red alga	Sarcodiotheca gaudichaudii	Unknown
Red alga	Polyopes lancifolius	Unknown
Red alga	Polysiphonia subtilissima	Low
Red alga	Porphyra yezoensis	Unknown
Red alga	Pyropia drachii	Unknown
Red alga	Stenogramma interruptum	Low
Green alga	Ulva californica	Unknown
Green alga	Umbraulva dangeardii	Unknown
Brown alga	Fucus distichus subsp. evanescens	Unknown
