Willapa Bay--Bay Center

Animals

Annelida

Genus	Species	Student	Date	Location	Abund.	Comments
Abarenicola	pacifica	Holly Beimler	5-Apr-08	This was in a tube sticking out of the sand near a tidepool in the muddier sediment.	Uncommon	This was identified using the Sept guide, and I am confident in this observation. We would have likely found more if we had dug up more of the worm tubes.
Abarenicola	pacifica	Lindsay McCormic	5-Apr-08	Below mudflat surface	Abundant	Identified by its sand castings and red color
Abarenicola	pacifica	Sarah Mangum	5-Apr-08	in sediment throughout site	Abundant	
Glycera	sp	Giovannina Souers	5-Apr-08	found in the sand near the waters edge	Uncommon	
Neanthes	brandti	Geoff King	5-Apr-08	Low intertidal. Sandy sediments.	Rare	
Neanthes	brandti	Holly Beimler	5-Apr-08	This was found toward the water in the muddy sedment when the burrow it lived in was excavated.	Rare	We probably only found one, because we didn't dig up a ton of worm holes. I would guess there were more present.
Nephtys	sp	Geoff King	5-Apr-08	Sandy and muddy sediments. Middle to low intertidal.	Uncommon	
Nephtys	sp	Giovannina Souers	5-Apr-08	found in the sand about mid way out all the way to the water	Common	
Nephtys	sp	Holly Beimler	5-Apr-08	Several of these were found in the muddy sedment throughout the day.	Abundant	This was identified using the Sept guide, and I am confident in this observation.
Nephtys	sp	Sarah Mangum	5-Apr-08	in sediment throughout site	Abundant	
Nereis	vexillosa	Sarah Mangum	5-Apr-08	in sediment in low to mid intertidal zone	Rare	
Unidentified worm	sp	Lisa Hannon	0-Apr-07		Rare	

Unidentified worm	sp	Lisa Hannon	0-Apr-07		Common	

Arthropoda

Genus	Species	Student	Date	Location	Abund.	Comments
Balanus	glandula	Lindsay France	0-Apr-07	Found in high intertidal and on deserted oyster farming equipment.	Uncommon	
Balanus	glandula	Sarah Mangum	5-Apr-08	in mid to low intertidal on rocks and other objects	Common	
Cancer	magister	Hannah Julich	0-Apr-07	Scattered throughout mid to low intertidal	Uncommon	Probably pretty common, but hard to spot when buried in mud. Excellent diggers.
Cancer	magister	Leia Gartner	0-Apr-07	Located in low intertidal, burried under thin layer of sediment	Uncommon	
Cancer	magister	Lindsay France	0-Apr-07	Found in sand.	Uncommon	
Cancer	magister	Lisa Hannon	0-Apr-07	Burrowing in sandy substrate	Uncommon	
Cancer	magister	Shawna Donley	0-Apr-07	Low Intertidal	Common	
Cancer	magister	Holly Beimler	5-Apr-08	This was found not moving much in a tide pool on the mud flats.	Rare	Identified from experience fishing for them, and confirmed with Sept guide. I am confident in this observation.
Cancer	magister	Lindsay McCormic	5-Apr-08	Closer to the open water	Common	
Cancer	magister	Sarah Mangum	5-Apr-08	in tide pool in low intertidal, partially buried	Uncommon	
Cancer	magister	Sarah Mangum	5-Apr-08	partially buried in sediment in mid intertidal	Rare	
Cancer	productus	Trisha O'Hearne	0-Apr-07	In the sand in the low intertidal	Rare	
Caprella	sp	Lisa Hannon	0-Apr-07	Attached to Zostera	Uncommon	Epifaunal
Caprella	sp	Nina Volk	0-Apr-07	On the eelgrass.	Rare	Very tiny!
Caprella	sp	Giovannina Souers	5-Apr-08	on Sea weed floating by		

Caprella	sp	Holly Beimler	5-Apr-08	These were found in tidepools on the mud flats.	Uncommon	This was identified using the Sept guide, and I am confident in this observation.
Caprella	sp	Sarah Mangum	5-Apr-08	on Zostera in water of low intertidal	Uncommon	
Crangon	stylirostris	Lisa Hannon	0-Apr-07	Crawling around in mid-intertidal	Common	Epifaunal
Crangon	stylirostris	Amanda Ruby	5-Apr-08	Found near the shore line	Uncommon	Coloration closely resembled sand, had blue-ish spots and blue eye spots.
Crangon	stylirostris	Giovannina Souers	5-Apr-08	on sea weed floating by	Rare	
Crangon	stylirostris	Holly Beimler	5-Apr-08	These were found in the waters edge and in the tidepools near the waters edge.	Uncommon	These were identified using the Sept guide, and I am confident in this observation.
Crangon	stylirostris	Sarah Mangum	5-Apr-08	in water and stream in low intertidal	Uncommon	
Idotea	wosnesenskii	Hannah Julich	0-Apr-07	Found on the mud, but normally live on seaweed	Uncommon	Cryptic coloration makes them hard to spot
Idotea	wosnesenskii	Leia Gartner	0-Apr-07	Located under zostera in lower intertidal soft sediment	Rare	
Idotea	wosnesenskii	Lindsay France	0-Apr-07	found in seagrass.	Rare	
Idotea	wosnesenskii	Lisa Hannon	0-Apr-07		Common	
Idotea	wosnesenskii	Nina Volk	0-Apr-07	On the eelgrass.	Uncommon	It was the same color as the eelgrass.
Idotea	wosnesenskii	Tim Dillavou	0-Apr-07	lower intertidal	Uncommon	
Idotea	wosnesenskii	Giovannina Souers	5-Apr-08	on the seaweed floating by in the current	Uncommon	
Idotea	wosnesenskii	Holly Beimler	5-Apr-08	This was found in the water's edge on sea grass.	Uncommon	This was identified using the Sept guide, and I am confident in this identificagtion.
Idotea	wosnesenskii	Lindsay McCormic	5-Apr-08	In a tidepool	Rare	Only one was seen
Idotea	wosnesenskii	Sarah Mangum	5-Apr-08	on zostera in water of low intertidal	Common	

Lophopanopeus	bellus	Sarah Mangum	5-Apr-08	in low to mid intertidal, in tide pool	Uncommon	
Neomolgus	littoralis	Lindsay McCormic	5-Apr-08	Closer to shore in the mud was on one of the ghost shrimps that we pulled up	Rare	on one of the ghost shrimps that we pulled up, possibly symbiotic, but should be found in the high intertidal zones above the surface
Neotrypaea	californiensis	Lindsay France	0-Apr-07	found in sediment with manilla clams-usually 2.	Abundant	
Neotrypaea	californiensis	Lisa Hannon	0-Apr-07	In burrows under sand	Common	Infaunal
Neotrypaea	californiensis	Nina Volk	0-Apr-07	In the mud in the mid intertidal.	Common	Needed a clam gun to dig them up.
Neotrypaea	californiensis	Tim Dillavou	0-Apr-07	lower intertidal	Common	in sediment 6" deep
Neotrypaea	californiensis	Amanda Ruby	5-Apr-08	Found in "upper" intertidal area of the mudflats, in much softer mud under a volcano shaped mound, that bubbled water when stepped on.	Common	found in a deep burrow. Shrimp was white-ish pink-ish. One claw was enlarged, thought to be male.
Neotrypaea	californiensis	Elishia Stefanowsk	5-Apr-08	mid inter tidal zone, within muddy sediments	Common	
Neotrypaea	californiensis	Holly Beimler	5-Apr-08	These were found throughout the muddy sediment about midway from shore.	Abundant	These were identified using the Sept guide, and the identification was confirmed by Bonnie Becker. After seeing these, I think the Fox Island identication is wrong. That is more likely a bay shrimp.
Neotrypaea	californiensis	Lindsay McCormic	5-Apr-08	closer to the shore, burrowed in the mud	Abundant	Burrows can be identified by the big obening field with water, much larger than the worm holes
Neotrypaea	californiensis	Sarah Mangum	5-Apr-08	in sediment in mid to high intertidal	Common	
Pagurus	hirsutiusculus	Lisa Hannon	0-Apr-07	Crawling around in mid-intertidal	Common	
Pagurus	hirsutiusculus	Holly Beimler	5-Apr-08	This found in a tide pool on the mud flats.	Rare	This was identified using the Sept guide, and I am confident in this observation.
Pagurus	hirsutiusculus	Sarah Mangum	5-Apr-08	on Zostera in water, low intertidal	Common	

Pagurus	sp	Nina Volk	0-Apr-07	On the mud in the low to high intertidal.	Abundant	
Pinnixa	littoralis	Hannah Julich	0-Apr-07	Living inside gaper clams and fat gapers	Uncommon	Probably very common, but you have to kill the clam to see them
Pinnixa	littoralis	Leia Gartner	0-Apr-07	Found inside of Pacific Gaper	Rare	
Pinnixa	littoralis	Lindsay France	0-Apr-07	Found inside the Pacific Gaper Clam.	Uncommon	In full grown clams, these crabs will often live in mated pairs.
Pinnixa	littoralis	Lisa Hannon	0-Apr-07	Found inside a Tresus nuttallii (Pacific Gaper)	Uncommon	Commensal relationship with Pacific Gaper. Beachcombers Guide to Seashore life p.124. Lisa listed abundance as "Uncommon (probably common)"
Pinnixa	littoralis	Shawna Donley	0-Apr-07	Inside crab	Rare	
Pinnixa	littoralis	Tim Dillavou	0-Apr-07	lower intertidal	Rare	inside gaper
Pinnixa	littoralis	Amanda Ruby	5-Apr-08	Found living inside the pacific gaper	Common	Male and female pair were found living in the mantle cavity of the pacific gaper. I did not notice, but the female is generally much larger than the male.
Pinnixa	littoralis	Elishia Stefanowsk	5-Apr-08	lower intertidal, within muddy sediments, and within Tresus nuttallii	Uncommon	
Pinnixa	littoralis	Geoff King	5-Apr-08	Muddy sediments. Low intertidal. Found inside the shell ofa Fat Gaper clam (T. capax).	Rare	Very small crab. Cream colored with dark patches.
Pinnixa	littoralis	Giovannina Souers	5-Apr-08	in the Gaper found far out in the sand bar	Rare	
Pinnixa	littoralis	Holly Beimler	5-Apr-08	These were found inside the fat gaper clams.	Common	These were identified using the Sept guide, and I am confident in this identification.
Pinnixa	littoralis	Sarah Mangum	5-Apr-08	in sediment of low intertidal	Uncommon	
Pugettia	producta	Sarah Mangum	5-Apr-08	in low intertidal at shoreline	Rare	

Chordata

Genus	Species	Student	Date	Location	Abund.	Comments

Ammodytes	hexapterus	Nina Volk	0-Apr-07			
Charadrius	vociferus	Holly Beimler	5-Apr-08	A flock of these circled the bay several times.	Uncommon	These were identified using the Pacific Northwest Birds guide. I am not entirely confident, because I could neither see them up close nor hear them call. However, based on the wing shape of the birds, it was likely this species.
Citharichthys	stigmaeus	Nina Volk	0-Apr-07			BJB: Date changed from 4/21 to 4/20.
Dasycottus	setiger	Lindsay France	0-Apr-07	Found in shallow tide pools.	Common	
Dasycottus	setiger	Shawna Donley	0-Apr-07	Tide pools	Uncommon	
Fish	spp	Lisa Hannon	0-Apr-07		Common	
Haliaeeius	leucocephalus	Holly Beimler	5-Apr-08	The eagle was sitting on the channel marker.	Rare	I am confident in this observation.
Larus	occidentalis	Holly Beimler	5-Apr-08	There were several gulls taking advantage of our poor clamming skills.	Abundant	Identifed using "Birds of the Pacific Northwest Coast" by Baron and Acorn. I am confident in this observation.
Oligocottus	maculosus	Nina Volk	0-Apr-07	In a tide pool at mid intertidal level.	Common	Very good camouflage. Same color as sand.
Oligocottus	maculosus	Sarah Mangum	5-Apr-08	occuring in many of the numerous tidepools	Abundant	
Oligocottus	sp	Lindsay France	0-Apr-07	found in tidepools of on the mud flats.	Common	
Psettichthys	melanostictus	Geoff King	5-Apr-08	Sandy sediments. Low intertidal. Partially buried in a small tidepool.	Rare	Body is very flattened with two eyes on the dorsal side. Body has a slightly grey coloration but is slightly transparent. Small black spots are visible on the dorsal side.

Ectoprocta

Genus	Species	Student	Date	Location	Abund.	Comments
Membranipora	membranacea	Hannah Julich	0-Apr-07	Growing on Zostera	Uncommon	
Membranipora	membranacea	Lindsay France	0-Apr-07	Found on Zostera.	Rare	Skeleton shrimp- caprella- found on same blade of zostera.
Membranipora	membranacea	Lisa Hannon	0-Apr-07		Common	

Membranipora	membranacea	Shawna Donley	0-Apr-07	Low Intertidal	Uncommon	
Membranipora	membranacea	Lindsay McCormic	5-Apr-08	Was on a piece of broken kelp drifting in the open water	Rare	Only was observed the one time, on the drifting piece of kelp
Membranipora	membranacea	Sarah Mangum	5-Apr-08	on growing on zostera in low to mid intertidal	Common	

Mollusca

Genus	Species	Student	Date	Location	Abund.	Comments
Aeolidia	papillosa	Trisha O'Hearne	0-Apr-07	In the mid intertidal area in the sand inside of a clam	Rare	This crab came crawling out of the clam when it died.
Clinocardium	nuttalli	Hannah Julich	0-Apr-07	Scattered throughout mid intertidal	Common	Found on their sides about halfway buried in mud
Clinocardium	nuttalli	Leia Gartner	0-Apr-07	Located lower intertidal under a thin layer of sediment	Common	
Clinocardium	nuttalli	Lindsay France	0-Apr-07	Found in sediment.	Common	
Clinocardium	nuttalli	Lisa Hannon	0-Apr-07	Some on top of sand, some under	Common	
Clinocardium	nuttalli	Nina Volk	0-Apr-07	In the mud in the low intertidal.	Common	
Clinocardium	nuttalli	Shawna Donley	0-Apr-07	low, mid intertidal, underground	Abundant	
Clinocardium	nuttalli	Tim Dillavou	0-Apr-07	lower intertidal	Common	
Clinocardium	nuttalli	Trisha O'Hearne	0-Apr-07	On top of the sand in the low intertidal	Common	Was white in color
Clinocardium	nuttalli	Amanda Ruby	5-Apr-08	found living just under the substrate	Abundant	shells were oval with very prominent radiating ribs. Shell color was light brown with pink-ish tints Found abundantly just below the surface
Clinocardium	nuttalli	Elishia Stefanowsk	5-Apr-08	lower intertidal, muddy/sanddy sediments.	Common	Found most in the lower intertidal

Clinocardium	nuttalli	Geoff King	5-Apr-08	Buried in sediments to a depth of 20 cm (roughly). Low intertidal zone. Sandy substrate. Other bivalves like Pacific Gapers and worms in same area.	Abundant	
Clinocardium	nuttalli	Giovannina Souers	5-Apr-08	all the way out under the sand bars	Uncommon	
Clinocardium	nuttalli	Holly Beimler	5-Apr-08	Several of these were just sitting on the sandy portions of the site. Some of them were in tidepools, but many were not.	Abundant	This was identified using the Sept guide, and it was confirmed by Bonnie Becker.
Clinocardium	nuttalli	Lindsay McCormic	5-Apr-08	Buried in the mud, or exposed on surface further out on the mudflat	Common	
Clinocardium	nuttalli	Sarah Mangum	5-Apr-08	low to mid intertidal, on surface and in sediment	Abundant	
Crassostrea	gigas	Lindsay France	0-Apr-07	Found on deserted oyster farming supplies in mid tidal flat areas.	Common	
Crassostrea	gigas	Nina Volk	0-Apr-07	At the abandoned oyster farm at mid intertidal level.	Common	
Crassostrea	gigas	Giovannina Souers	5-Apr-08	on the old oyster beds	Uncommon	
Crassostrea	gigas	Holly Beimler	5-Apr-08	These were found on the abandoned oyster farm rigs.	Abundant	These were identifed using the Sept guide and confirmed by Bonnie Becker.
Crassostrea	gigas	Sarah Mangum	5-Apr-08	growing on abandoned oster farm structures	Common	
Cryptomya	californica	Geoff King	5-Apr-08	Sandy sediments. Low intertidal	Rare	

Cryptomya	californica	Giovannina Souers	5-Apr-08	out far, near the water line, under the sand	Uncommon	
Cryptomya	californica	Holly Beimler	5-Apr-08	This was found in the muddy sediment in the burrows of other animals.	Rare	This was identified using the Sept guide, and it was confirmed by Bonnie Becker.
Diodora	aspera	Lindsay France	0-Apr-07	found on abandoned oyster farming supplies.	Uncommon	
Lirabuccinum	dirum	Nina Volk	0-Apr-07	On the mud in the low to mid intertidal.	Uncommon	
Mya	arenaria	Geoff King	5-Apr-08	Sandy sediments. Low intertidal.	Rare	The False Mya (Cryptomya californica) superficially resembles this, but Mya is much larger (up to 10 cm) while the false mya only reaches 3 cm.
Mya	arenaria	Giovannina Souers	5-Apr-08	found them in the sand out at the waters edge	Uncommon	
Mytilus	californianus	Sarah Mangum	5-Apr-08			
Mytilus	trossulus	Holly Beimler	5-Apr-08	These were found on the abandonded oyster farm rigs.	Dominant	These were identified using the Sept guide, and I am confident in this observation.
Mytilus	trossulus	Sarah Mangum	5-Apr-08	on rocks and other objects in mid to low intertidal	Common	
Nucella	emarginata	Nina Volk	0-Apr-07	On the mud in the low to mid intertidal.	Uncommon	
Protothaca	staminea	Sarah Mangum	5-Apr-08	in low to mid intertidal, in streams and on the surface of sediment	Uncommon	
Siliqua	patula	Amanda Ruby	5-Apr-08	found lying on muddy substrate, trying to burrow	Rare	~ 5" in length, yellowish brown, pink foot
Siliqua	patula	Elishia Stefanowsk	5-Apr-08	found in the lower mid-tidal zone. Within the muddy sediments.	Uncommon	Clams were juveniles
Siliqua	patula	Geoff King	5-Apr-08	Sandy sediments. Low intertidal.	Rare	

Siliqua	patula	Giovannina Souers	5-Apr-08	under the sand all the way out	Common	
Siliqua	patula	Holly Beimler	5-Apr-08	These were located throughout the site in the sandy/muddy sediments. When standing to close to the hole, or pushing the clam gun in, they were actually popping out of the ground at the low tide.	Dominant	These were identified using the Sept guide, and this observation was confirmed by Bonnie Becker.
Siliqua	patula	Lindsay McCormic	5-Apr-08	In a tide pool far out on the mudflat	Rare	only saw two during the trip, however since they burrow beneath the mudflat there may have been more
Siliqua	patula	Sarah Mangum	5-Apr-08	in sediment, low to mid intertidal	Uncommon	
Tresus	capax	Hannah Julich	0-Apr-07	Mid to high intertidal	Common	Interspersed with T. nuttallii
Tresus	capax	Lindsay France	0-Apr-07	In sediment approximately 18 inches deep.	Rare	
Tresus	capax	Nina Volk	0-Apr-07	In the mud in the low to mid intertidal.	Common	Needed a clam gun to dig them up or Shawna.
Tresus	capax	Geoff King	5-Apr-08	Sandy sediments. Low intertidal.	Rare	
Tresus	capax	Holly Beimler	5-Apr-08	These were found in the muddy sediment.	Common	These were identified using the Sept guide and confirmed by Bonnie Becker.
Tresus	capax	Lindsay McCormic	5-Apr-08	Buried deep in the mud very far out on the mudflat close to the open water	Common	were very hard to obtain because they can burrow quickly and deep. One was cracked and 2 Pinnixia littoralis were found inside
Tresus	capax	Sarah Mangum	5-Apr-08	in sediment, low to mid intertidal zone	Uncommon	
Tresus	nuttallii	Hannah Julich	0-Apr-07	Completely buried in mud	Abundant	Clam gun was too small in diameter and often crushed them. Had gaper pea crab living in its shell.
Tresus	nuttallii	Jessica Pearson	0-Apr-07	Found in the mid-intertidal zone.	Common	Identified and dug up by Leah.

Tresus	nuttallii	Leia Gartner	0-Apr-07	Found throughout lower intertidal region, burried in the soft sediment	Common	
Tresus	nuttallii	Lindsay France	0-Apr-07	Found in sediment approximately 18 inches in depth.	Common	
Tresus	nuttallii	Lisa Hannon	0-Apr-07	In burrows under sand	Common	Epifaunal
Tresus	nuttallii	Shawna Donley	0-Apr-07	low, mid intertidal, underground	Common	
Tresus	nuttallii	Tim Dillavou	0-Apr-07	lower intertidal	Uncommon	
Tresus	nuttallii	Trisha O'Hearne	0-Apr-07	In the sand in the mid intertidal	Abundant	Is white to brown in color with a ciphon
Tresus	nuttallii	Amanda Ruby	5-Apr-08	Found in a rather deep burrow under a large depression in the sand	Common	White to yellowish shell, with black on the outer edge. Shell was oval-elongated, compared to the fat gaper which has a more rounded shell.
Tresus	nuttallii	Elishia Stefanowsk	5-Apr-08	lower intertidal, within sandy/muddy sediments,	Common	Pinnix littoralis found within the gaper
Tresus	nuttallii	Geoff King	5-Apr-08	Sandy sediments. Low intertidal.	Rare	Shell is more elongated than the Fat Gaper (T. capax) and has more yellow and white coloration.
Tresus	nuttallii	Giovannina Souers	5-Apr-08	under the sand far out	Uncommon	
Tresus	nuttallii	Holly Beimler	5-Apr-08	These were found in the muddy substrate.	Common	This was identifed using the Sept guide, and it was confirmed by Bonnie Becker.
Tresus	nuttallii	Lindsay McCormic	5-Apr-08	Burrowed in the mudflat	Common	
Tresus	nuttallii	Sarah Mangum	5-Apr-08	in sediment in low intertidal	Uncommon	
Urosalpinx	cinera	Lisa Hannon	0-Apr-07	Only saw empty shells	Common	Shells were being used by Pagurus hermits
Urosalpinx	cinera	Geoff King	5-Apr-08	Muddy sediments. Middle intertidal. Found on bottom near the oyster farm racks.	Rare	Interesting that one was found here since the oyster farm is no longer used and the other bivalves were buried in the sediments. What is it eating?

Urosalpinx	cinera	Holly Beimler	5-Apr-08	These were found in the abandoned oyster farm on the gear headed towards the oysters.	Uncommon	These were identified by a student and confirmed using NOAA research on Willapa Bay oyster drills.

Porifera

Genus	Species	Student	Date	Location	Abund.	Comments
Haliclona	permollis	Lindsay France	0-Apr-07	Found washed up on the mud flats.	Uncommon	
Microciona	sp	Hannah Julich	0-Apr-07	Low intertidal close to Zostera bed	Rare	Invasive
Microciona	sp	Leia Gartner	0-Apr-07	located in soft sediment in lower intertidal	Rare	
Microciona	sp	Lindsay France	0-Apr-07	Red invasive found washed on mud flat.	Uncommon	
Microciona	sp	Lisa Hannon	0-Apr-07	Sporatic clumps	Common	
Microciona	sp	Shawna Donley	0-Apr-07	Low Intertidal	Rare	Microciona prolifera?
Ophlitaspongia	pennata	Sarah Mangum	5-Apr-08	mid to low intertidal, growing on other sponges	Common	

Plants

Chlorophyta

Genus	Species	Student	Date	Location	Abund.	Comments
Ulva	spp	Jessica Pearson	0-Apr-07	Found in the mid-intertidal zone.	Common	Found growing on oyster beds.
Ulva	spp	Lindsay France	0-Apr-07	found on abandoned oyster supplies on the mud flats.	Common	
Ulva	spp	Sarah Mangum	5-Apr-08	washed up on beach, attached to rocks & other objects	Common	

Magnoliophyta

Genus	Species	Student	Date	Location	Abund.	Comments
Phyllospadix	scouleri	Hannah Julich	0-Apr-07	Beds in low intertidal	Common	Grew separately from Zostera

Phyllospadix	scouleri	Shawna Donley	0-Apr-07	Low Intertidal	Common	
Phyllospadix	scouleri	Trisha O'Hearne	0-Apr-07	In the sand in the low intertidal	Abundant	Green long stems that look like grass
Zostera	japonica	Hannah Julich	0-Apr-07	Beds in low intertidal	Common	Tight beds away from Phyllospadix
Zostera	japonica	Jessica Pearson	0-Apr-07	Found in the mid-intertidal zone.	Common	Identified using Whelks to Whales as a reference. Blades thinner and shorter than those of the native zostera.
Zostera	japonica	Leia Gartner	0-Apr-07	Located throughout soft sediment lower intertidal	Dominant	
Zostera	japonica	Lindsay France	0-Apr-07	found on tidal flats: approximately 1 mile from beach.	Common	bryzoan found on blade surface.
Zostera	japonica	Giovannina Souers	5-Apr-08	found intermixed with the native eel grass on sand bars and in tide pools from the beach all the way out.	Abundant	
Zostera	japonica	Holly Beimler	5-Apr-08	This was observed in the waters edge and at several lower sites in the mud flats, particularly where there were streams across the mud flat.	Abundant	This was identified using the seaweed guide, and I am confident in this observation.
Zostera	japonica	Sarah Mangum	5-Apr-08	growing in sediment, mostly mid to high intertidal	Common	
Zostera	marina	Hannah Julich	0-Apr-07	Beds in the low intertidal	Common	Grew in tight beds
Zostera	marina	Jessica Pearson	0-Apr-07	Found in the mid-intertidal zone.	Common	Identified using Whelks to Whales as a reference. Blades are thicker and longer than those of the non native zostera.
Zostera	marina	Lindsay France	0-Apr-07	found on tidal flats: 1 mile from shoreline/beach.	Common	found peppered with Invasive Zostera.
Zostera	marina	Lisa Hannon	0-Apr-07	Sporatic patches	Common	

Zostera	marina	Nina Volk	0-Apr-07	Very low intertidal. The farthest point we walked out to. Near the lighthouse.	Abundant	
Zostera	marina	Shawna Donley	0-Apr-07	Low Intertidal	Common	
Zostera	marina	Tim Dillavou	0-Apr-07	lower intertidal	Abundant	
Zostera	marina	Holly Beimler	5-Apr-08	These were found throughout the site, especially along the waters edge and lower areas in the mud flats particularly near moving water.	Abundant	These were identified using the Sept guide, and I am confident in this observation.
Zostera	marina	Sarah Mangum	5-Apr-08	growing in sediment, high to low intertidal	Abundant	

Phaeophyta

Genus	Species	Student	Date	Location	Abund.	Comments
Fucus	gardneri	Amanda Ruby	5-Apr-08	found floating at the shorline	Uncommon	olive green in color had swollen yellow tips, which contain the gametes
Fucus	gardneri	Holly Beimler	5-Apr-08	This was found laying on the mud flat without a hold fast.	Uncommon	It was identified using the Sept guide, and I am confident in this observation. Since it was missing its hold fast, it probably washed in from a rocky area.

Rhodophyta

Genus	Species	Student	Date	Location	Abund.	Comments
Odonthalia	floccosa	Giovannina Souers	5-Apr-08	floating by in the water and growing on the old Oyster farm re-bar structures	Common	
Smithora	naiadum	Sarah Mangum	5-Apr-08	growing on lower intertidal Zostera marina	Common	