

Appendix 14.1 Fisheries Literature Review

Introduction

A desktop literature review has been carried out to establish baseline conditions of the physical environment, to identify information gaps and to determine if field surveys are required to ascertain fisheries information for subsequent impact assessments. Literature, including published scientific studies and approved EIAs for projects in the vicinity of the study area, have been reviewed. Locations of previous studies which deployed fisheries surveys are shown in **Drawing No. MCL/P132/EIA/14-002**. Other literature has also been reviewed, not limited to the following:

- Fisheries Resources and Fishing Operations in Hong Kong Waters, ERM (1998); Port Survey 1996/1997 by Capture Fisheries Division of AFD (1998);
- Port Survey 2005/2006, AFCD (2006);
- Liquefied Natural Gas (LNG) Receiving Terminal and Associated Facilities – EIA report, ERM (2006);
- Detailed Site Selection Study for a Proposed Contaminated Mud Disposal Facility within the Airport East/East of Sha Chau Area. Environmental Impact Assessment and Final Site Selection Report, CEDD (2005);
- Contaminated Mud Pits EM&A Studies, CEDD (2006-2013);
- Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP) Monitoring Programme (2000 – 2006);
- Black Point Gas Supply Project – EIA Study (2010);
- Hong Kong - Zhuhai - Macao Bridge: Hong Kong Boundary Crossing Facilities (HKBCF) and Hong Kong Link Road (HKLR) - Investigation Final EIA Report (2009);
- Tuen Mun – Chek Lap Kok Link (hereafter as “TMCLKL”) – Investigation EIA Report (2009) and Environmental Permits Submissions;
- Harbour Area Treatment Scheme (HATS) Stage 2A – Investigation EIA Report (2008);
- Permanent Aviation Fuel Facility for Hong Kong International Airport EIA and EM&A reports (2006);
- EIA Report for New Contaminated Mud Marine Disposal Facility at Airport East / East Sha Chau Area (2005);
- EIA Study for Construction of Lung Kwu Chau Jetty (2002);
- Northshore Lantau Development Feasibility Study, Environmental Impact Assessment: Final Report, CEDD (2000); and
- Route 10 - North Lantau to Yuen Long Highway, Investigation and Preliminary Design, EIA Final Assessment Report, HyD (1999).

The proposed land formation works and the future operation of the third runway project may affect the fisheries resources and fishing operations within the project footprint and adjacent waters. The following sections summarise the fisheries resources and activities within the study area and are based on the literature review of the Port Surveys, other fisheries related reports from AFCD and approved EIAs. It should be noted that information from the literature review referred to the situation at the time of the referenced studies. The need for verification and updated fisheries surveys has been examined to gather adequate information for subsequent fisheries impact prediction and evaluation, formulation of proposed mitigation measures and monitoring requirements according to the EIAO-TM Annex 17.

Capture Fisheries

The estimated fisheries production in Hong Kong in 2013 was 170,129 tonnes with the value estimated at about HK\$2,338 million (AFCD, 2014).

The Port Survey conducted by AFCD in 2006 consisted of an interview programme. About 36% of the local fishing fleet accounting for all homeports (i.e. places at which local fishing vessels are based) and covering all vessel types were interviewed. During the interviews, vessel particulars (e.g. vessel length, type and homeport) were recorded and information on their fishing operations and fisheries production in Hong Kong waters were collected (AFCD, 2006).

Port Survey

The Port Survey 2006 provides detailed information on the Hong Kong fisheries such as adult fish production (**Drawing No. MCL/P132/EIA/14-003**), fish fry production (**Drawing No. MCL/P132/EIA/14-004**), fisheries production in terms of value (**Drawing No. MCL/P132/EIA/14-005**) and fishing activities (**Drawing No. MCL/P132/EIA/14-006**). As the territory-wide trawl ban has been imposed since 31 December 2012, information extracted from the Port Survey may not reflect the latest fisheries status in Hong Kong. Nonetheless, this information represents one of the best available information on Hong Kong fisheries until the trawl ban and at the time of this study. At the time of conducting this 3RS EIA study, many of the trawl fishermen were uncertain about their future modes of operation and might choose to remain in the fishing industry, therefore information regarding the trawlers were not excluded from the literature review to prevent underestimation of the fishing activities and productions. In Port Survey, grid cells are normally categorised into one of 6 classes (except for fish fry production), and in the following text the classes will be textually described as very low, low, moderately low, moderate, high and very high respectively.

Within HKSAR waters, the highest yields for local fisheries were concentrated at eastern and southern coasts, especially at Tap Mun, Ninepin Group and Po Toi (**Drawing No. MCL/P132/EIA/14-003**), while the western waters were comparatively less productive.

Within the study area, the level of overall fishing operations varied in different places, ranging from very low to moderate (> 0 - 400 vessels operating in the area per year) (**Drawing No. MCL/P132/EIA/14-006**). The types of fishing vessels operating in the study area included stern trawler, shrimp trawler, hang trawler, gill netter, long liner, purse seiner and sampan (**Annex 1**). The top ten groups in terms of fisheries production in Hong Kong (scad, shrimp, rabbitfish, squid, croaker, crab, mullet, sardine, seabreams and anchovy) could all be found within the study area. There was no reported fish fry fisheries production from the fishermen (**Drawing No. MCL/P132/EIA/14-004**). The western Lantau waters off Tai O have the highest adult fish production in terms of weight (**Drawing No. MCL/P132/EIA/14-003**). Places with high fisheries production in terms of value (5,000 – 10,000 HK\$/ha/year) included waters around SCLKCMP, and western Lantau waters off Tai O (**Drawing No. MCL/P132/EIA/14-005**).

Although the study area covers the North Western Water Control Zone (WCZ), North Western Supplementary WCZ, Deep Bay WCZ and Western Buffer WCZ, it is anticipated that the focal area for

capture fisheries issues would be the land formation footprint itself located at the north of existing airport island, and adjacent areas in the Brothers, SCLKCMP, western and northern Chek Lap Kok waters which may be impacted by the project. Therefore these five areas will be discussed in detail.

According to the 2006 Port Survey, within the proposed land formation footprint, the level of overall fishing operations was moderately low to moderate (50 – 400 vessels/year) (**Drawing No. MCL/P132/EIA/14-006**). The types of fishing vessels which operated over the proposed land formation footprint included shrimp trawler, hang trawler, gill netter, purse seiner and sampan. However, the numbers of each type of vessel were very low (0 - 50). The overall fisheries production in terms of weight was moderately low (100 – 200 kg/ha/year) and in terms of value was moderately low to moderate (1,000 – 5,000 HK\$/ha/year) (AFCD 2006).

Around The Brothers, the overall level of fishing operations was considered to be moderate (100 - 400 vessels/year). The types of fishing vessels which could be found in this area include stern trawler, shrimp trawler, hang trawler, gill netter, long liner, purse seiner and sampan. Capture species with reportedly moderate to very high levels of production (> 20 kg/ha/year) in this area included scad, shrimp and croaker. The overall fisheries production in terms of weight was moderate (200 - 400 kg/ha/year) and in terms of value was moderate to high (2,000 - 5,000 HK\$/ha/year) (AFCD 2006).

In and around the SCLKCMP, the overall level of fishing operation was moderate (100 - 400 vessels/year). Types of fishing vessels which operated there included shrimp trawler, hang trawler, gill netter, purse seiner and sampan. Captured species with reported moderate to very high levels of production (> 20 kg/ha/year) in this area included shrimp and croaker. The overall fisheries production in terms of weight was moderate (200-400 kg/ha/year) and in terms of value was moderate to high (2,000 - 10,000 HK\$/ha/year) (AFCD 2006).

In the western Chek Lap Kok waters, the overall level of fishing operation was moderately low (50-100 vessels/year). The types of fishing vessels reportedly operating over this area included shrimp trawler, hang trawler, gill netter and sampan. Overall fisheries production was moderately low in terms of weight (100-200 kg/ha/year) and moderately low to moderate in terms of value (1,000 – 5,000 HK\$/ha/year) (AFCD 2006).

In the northern Chek Lap Kok waters, overall fishing level operation was moderately low to moderate (50-400 vessels/year). The types of fishing vessels reportedly operating over this area included shrimp trawler, hang trawler, gill netter, purse seiner and sampan. Overall fisheries production was moderately low to moderate in terms of weight (100- 400 kg/ha/year) and moderately to high in terms of value (2,000 – 10,000 HK\$/ha/year) (AFCD 2006).

Sha Chau and Lung Kwu Chau Marine Park Monitoring Programme (2000 – 2006)

SCLKCMP was designated in 1996. It was influenced by the discharge from the Pearl River, hence the seawater there was of low salinity but high organic nutrient levels. Such conditions enhanced the marine biodiversity, and provided nursery ground for many marine fish and shellfish species. It was rich in fisheries resources and also served as important habitat for Chinese White Dolphins. Croakers were reportedly most abundant, and common species recorded included *Johnius belangerii*, *Sillago japonica*, *Plotosus lineatus*, *Argyrosomus japonicus*, *Acanthopagrus latus*, *Muraenesox cinereus*, *Platycephalus indicus*, *Leiognathus brevirostris*, *Takifugu oblongus* and *Terapon jarbua* (AFCD, 2013b). Out of these *Sillago japonica*, *Argyrosomus japonicus* and *Acanthopagrus latus* are species of high commercial value.

AFCD commissioned fisheries studies within the SCLKCMP using hand line and gill net/fish trap between 1999 and 2006 (Put et al., 2004 – 2006; Tsang et al. 2000 – 2003). However due to the application of different fishing methods and sampling efforts, it is not appropriate to compare the results such as abundance and yield across years in this instance. During the latest survey in 2006 using gill net, 50

species were recorded, and the five most dominant species in terms of abundance were *Thryssa hamiltonii* (anchovy), *Johnius belangerii* (croaker), *Ilisha elongata* (herring), *Gerres oyena* (silver biddy) and *Johnius amblycephalus* (bearded croaker). In terms of yield, the five most dominant species recorded from gill net surveys were *Johnius belangerii*, *Thryssa hamiltonii*, *Ilisha elongata*, *Platycephalus indicus* (bartail flathead) and *Johnius dussumieri* (sin croaker). When hand lines were employed, 29 fish species were caught. The five most dominant species in terms of abundance were *Johnius belangerii*, *Sillago japonica* (Japanese sillago), *Johnius amblycephalus*, *Arius maculatus* (spotted catfish) and *Rhynchopelates oxyrhynchus* (sharpbeak terapon). In terms of yield, the five most dominant species recorded from hand-line survey were *Johnius belangerii*, *Sillago japonica*, *Arius maculatus*, *Johnius amblycephalus* and *Otolithes ruber* (tiger-toothed croaker). Except for *Sillago japonica*, the rest of the recorded fish species are all of low or medium commercial value.

Contaminated Mud Pits Environmental Monitoring and Audit (2006 – 2013)

Trawl surveys were conducted as part of the CMP EM&A, and data for 2006 and 2013 were obtained for this EIA study. Survey areas in this EM&A included western Chek Lap Kok waters (TSA and TSB), SCLKCMP (TNA and TNB), and northern Chek Lap Kok waters (INA and INB). Locations of the trawl stations are shown in **Drawing No. MCL/P132/EIA/14-002**. The catch per unit effort (CPUE) and yield per unit effort (YPUE) grouped by year, season, and location are presented in **Annex B**, while the dominant species composition in terms of abundance and yield are presented in **Annex C**. Species with commercial value are defined based on the findings described in the fisheries interview survey i.e. catches which are retained and either sold to seafood market and restaurants, or to local factories for salted/preserved fish production, or as fish feed. Catches with no commercial value such as corals, *Temnopleurus toreumaticus* (sea urchin), *Philine aperta* (sand slug), *Siphonosoma* sp. (peanut worm), *Pteroeides sparmanni* (sea pen) etc. are usually thrown back into the sea by fishermen. According to the Fish Marketing Organization (2013a), the average price for fresh fish landed during 2011 – 2012 was \$30 – \$45 kg⁻¹. Therefore species were grouped into high value species (> \$45 kg⁻¹), medium value (\$30 - \$ 45 kg⁻¹) and low value (< \$30 kg⁻¹). Based on the average price of 61 species recorded between 2011 and 2012 by FMO (2013), those species recorded by the CMP EM&A had their commercial values evaluated (**Annex C**). For species which did not have prices provided by the FMO, their commercial values were estimated by an experienced fisherman who was familiar with the fish price.

For western Chek Lap Kok waters, a total of 231 demersal trawl species (including 93 fishes, 18 shrimps, 25 crabs, six mantis shrimps, one horseshoe crab, 41 gastropods, 24 bivalves, five cephalopods, nine cnidarians, five echinoderms, two barnacles, one Echiura species and one Tunica species) were recorded in wet season, while a total of 222 demersal trawl species (including 93 fishes, 16 shrimps, 23 crabs, eight mantis shrimps, 35 gastropods, 23 bivalves, four cephalopods, 10 cnidarian species, five echinoderm species, two barnacles, one polychetae, one Echiura species, and one Tunica species) were recorded during dry season. From 2006 to 2013, no obvious trend was observed in terms of the CPUE and YPUE of fish and crustacean species. Seasonal fluctuation could be observed from the data. CPUE and YPUE in most of the wet seasons were found to be higher than those in dry seasons. The survey results indicated that higher abundance and yield of fish and crustacean were caught in wet seasons than in dry seasons (see Figures 1a and 1b in **Annex B**). For species in other groups such as gastropod and echinoderm, the CPUE and YPUE showed an increasing trend from 2006 to 2013 (see Figure 2a and 2b in **Annex B**). This increasing trend was mainly due to the significant increase in CPUE and YPUE of *Turritella terebra* (sea snail) and *Scapharca subcrenata* (ark shell) (**Annex C**). In fact, over the years, the catches were dominated by species of no or low commercial values.

For SCLKCMP, a total of 211 demersal trawl species (including 83 fishes, 18 shrimps, 25 crabs, seven mantis shrimps, two horseshoe crabs, 35 gastropods, 15 bivalves, four cephalopods, 10 cnidarians, five echinoderms, two barnacle, two polychetae, one Echiura species and two Sipuncula species) were recorded during wet season from 2006 to 2013 while a total of 218 demersal trawl species (including 88 fishes, 17 shrimps, 26 crabs, six mantis shrimps, 28 gastropods, 22 bivalves, four cephalopods, 12

cnidarians, eight echinoderms, two barnacles, one polychetae, one Echiura, two Sipuncula species and one Tunica species) were recorded during dry season. From 2006 to 2013, no obvious trend was observed in terms of the CPUE and the YPUE of fish and crustacean species. CPUE and YPUE in most of the wet seasons were found to be higher than those in dry seasons. This indicated that more fish and crustacean were caught in wet seasons than in dry seasons in terms of both abundance and yield. (see Figures 1a and 1b in **Annex B**). For species in other groups such as gastropod and echinoderm, the CPUE and YPUE showed an increasing trend from 2006 to 2013 (see Figure 2a and 2b in **Annex B**). This increasing trend was also due to the significant increase in CPUE and YPUE of *Turritella terebra* (sea snail) and *Balanus* sp. (barnacle) (**Annex C**).

For northern Chek Lap Kok waters, a total of 235 demersal trawl species (including 99 fishes, 17 shrimps, 30 crabs, five mantis shrimps, 32 gastropods, 23 bivalves, five cephalopods, 12 cnidarians, six echinoderms, two barnacles, one polychetae, one Echiura species, one Sipuncula species and one Tunica species) were recorded during wet season, while a total of 225 demersal trawl species (including 102 fishes, 15 shrimps, 25 crabs, seven mantis shrimps, 31 gastropods, 19 bivalves, six cephalopods, 11 cnidarians, five echinoderms, two barnacles, one Echiura species and one Tunica species) were recorded during dry season. From 2006 to 2013, no obvious trend was observed in terms of CPUE and the YPUE of fish and crustacean species. CPUE and YPUE in most of the wet seasons were found to be higher than those in dry seasons. This showed that more fish and crustacean were caught in wet seasons than in dry seasons in terms of both abundance and yield. (see Figures 1a and 1b in **Annex B**). For species in other groups such as gastropod and echinoderm, the CPUE and YPUE showed an increasing trend from 2006 to 2013 (see Figure 2a and 2b in **Annex B**). This increasing trend was also due to the increase in CPUE and YPUE of *Turritella terebra* (sea snail) and *Balanus* sp. (barnacle) (**Annex C**).

Culture Fisheries

As the Project is a marine base project and there is no fishpond on airport island which is the only land area to be directly affected by the project, pond fish culture is not considered in this EIA, and the culture fisheries only focus on mariculture. The predominant type of mariculture in Hong Kong is marine fish culture which involves rearing of marine fish from fry or fingerlings to marketable size in cages suspended from floating rafts usually in sheltered coastal areas. Common species under culture include green grouper, brown-spotted grouper, giant grouper, Russell's snapper, mangrove snapper, goldlined seabream, star snapper and red drum (AFCD, 2014).

Marine fish culture is protected and regulated by the Marine Fish Culture Ordinance (Cap. 353), which requires all marine fish culture activity to operate under licence in designated fish culture zones. Currently, there are 26 fish culture zones occupying a total sea area of 209 ha with some 987 licensed operators. In 2013, the production from local marine fish culture was 1,005 tonnes valued at \$94 million, constituting 6% of the local demand for live marine fish (AFCD, 2014).

There are no Fish Culture Zones (FCZs) within the project footprint or in the vicinity. Of the 26 gazetted FCZs zones in Hong Kong, only one occur within the study area (AFCD, 2014). Ma Wan FCZ is the nearest FCZ to the project footprint and is located around 13 km to the east within the Western Buffer WCZ.

Oyster farming is another type of mariculture in Hong Kong. Hong Kong's oyster farming operations occur along the intertidal mudflat of Deep Bay only, in northwestern Hong Kong and within the Deep Bay WCZ. The oyster beds and rafts between Tsim Bei Tsui and Ha Pak Nai are also the only marine culture fisheries sites inside Deep Bay WCZ. In 2013, the production was about 108 tonnes (meat only) valued at \$9 million (AFCD, 2014).

There were no oyster beds or rafts within the land formation footprint or in the vicinity. The oyster production area in Deep Bay is around 14 km north of the proposed land formation footprint.

Artificial Reef Deployment

AFCD has been implementing an artificial reef (AR) project since 1996 to enhance fisheries resources and promote biodiversity in Hong Kong's marine waters (AFCD, 2013a). Artificial reefs are devices used for attracting and supporting large populations of fish, which provide complex, hard surface habitat in areas where only soft bottom seabed occurs (Wilson, 2003). There are two ARs within the study area, located at the northeastern area of the Hong Kong International Airport Approach Area (HKIAAA) of Chek Lap Kok waters and at SCLKCMP (indicative location of AR at SCLKCMP is shown in **Drawing No. MCL/P132/EIA/14-001**). However, since the AR sites in the Chek Lap Kok waters are significantly affected by the construction of the Hong Kong Boundary Crossing Facilities (HKBCF) as a result of potential suspended solids elevations that exceed the WQO at this AR, they are not considered as sites of fisheries importance and will be excluded from the impact assessment. While it is in the HZMB-HKBCF EIA report (Arup, 2009) that ARs with a total volume of not less than 10,800 m³ would be provided as mitigation measure, and part of them might be deployed in the proposed Brothers Marine Park, details of the new ARs are not yet available at the time of the current EIA study and hence they will not be considered in the impact assessment also.

There are six AR deployment sites at the SCLKCMP, established with the objectives of prevention of fish trawling, as feeding stations for Chinese White Dolphins and to enhance habitat quality and marine resources (AFCD, 2013a). They comprise 24 units of ferro-cement river barges with a total volume of 4,640 m³ and 42 concrete-coated container of volume 940 m³ deployed in the SCLKCMP in 2000.

For the ARs deployed at SCLKCMP, the monitoring data collected under AFCD's monitoring programme between 2000 and 2006 provide some information on the fish diversity in the location (Put et al., 2005 – 2006; Tsang et al. 2000 – 2004). Fishing methods employed included gill net, hand line and traps. Throughout the monitoring period, the AR site did not exhibit significantly higher fish abundance and yield when compared to other survey sites within the Marine Park. However it was noted that after the deployment of AR in March 2000, the fish abundance at the AR site increased threefold in the following wet season as compared to 1999 before the AR was deployed (Tsang et al., 2001). Furthermore species of high commercial value (e.g. *Eleutheronema tetradactylus*) and rocky/hard habitat species (e.g. *Apogon kinesis* and *Epinephelus awoara*), which were not recorded in 1999 prior to the AR deployment, were also found at the AR site in 2000 (Tsang et al., 2001). As the seabed in that region generally consisted of soft mud, the AR might have attracted the rocky/hard habitat species to the area through provision of hard substrates and shelters.

Nursery and Spawning Grounds for Commercial Fisheries

The majority of commercial fish species (e.g. *Ostorhinchus fasciatus* (cardinalfish), *Saurida* spp. (lizard fish), *Caranx* spp. (carangids), *Nemipterus japonicus* (melon coat), groupers and threadfin breams)) in Hong Kong spawn from June to August. Other species such as *Leiognathus brevirostris* (pony fish), *Johnius belangerii* (croaker), *Cynoglossus macrolepidotus* (Macau sole) and Emperor fish spawn year round. Only a few species such as *Platycephalus indicus* (flathead), *Konosirus punctatus* (gizzard shad), breams and snappers are identified to be late winter or late summer spawners which have active reproductive periods between February and April and/or between September and December (ERM 1998).

Most commercial crustaceans (e.g. *Metapenaeus affinis* (jinga shrimp), *Metapenaeopsis palmensis* (southern velvet shrimp), *Solenocera crassicornis* (coastal mud shrimp), *Metapenaeus ensis* (greasy back prawn) and *Oratosquilla oratoria* (mantis shrimp) in Hong Kong showed spawning concentrated between June and August (ERM 1998).

Surveys conducted to identify spawning seasons, habitats and nursery areas of commercially important fisheries resources identified northern Lantau waters as spawning grounds of commercial fisheries resources such as *Leiognathus brevirostris* (shortnose ponyfish), *Lateolabrax japonicus* (Japanese

seabass), *Konosirus punctatus* (dotted gizzard shad), *Solenocera crassicornis* (coastal mud shrimp), *Metapenaeus affinis* (jinga shrimp) and *Oratosquilla oratoria* (mantis shrimp) (ERM, 1998). Of these, *Lateolabrax japonicus*, *Metapenaeus affinis* and *Oratosquilla oratoria* are recognised as species of high commercial value. The highest number of reproductive individuals was observed during May to August, while other months which had increased spawning activities included March to April, and December to January (ERM, 1998). A portion (approx. 78 ha) of the land formation footprint will encroach to the spawning grounds of commercial fisheries resources at northern Chek Lap Kok waters delineated by previous study.

However, the study area was not recognised as important nursery grounds for juvenile fish, crustaceans or molluscs (ERM 1998). The Port Survey 2006 also did not report any fish fry production for the same areas (AFCD 2006).

In western waters of Lantau (around Yi O, Peak Hill and Fan Lau), ERM (2006) reported that the average fish egg density was 1.50 egg/m³ during the wet season (July to October) and 0.76 egg/m³ during the dry season (November to March). The average ichthyoplankton density was 1.90 larvae/m³ during the wet season and 0.21 larvae/m³ during dry season. The average fish post-larvae density was 0.17 larvae/m³ during wet season and 0.35 larvae/m³ during the dry season. The average number of fish post-larvae families recorded was 15 during wet season and 11 during dry season. Fish larvae from 30 families were identified during wet season; during dry season up to 39 families were recorded. Dominant families included Ambassidae (glass perches), Engraulidae (anchovies), Gobiidae (gobies) and Sciaenidae (croakers) during the wet season; Engraulidae, Gobiidae, Scorpaenidae (rockfishes) and Syngnathidae (pipefishes) during the dry season. There was no observable difference between fish egg, ichthyoplankton or fish post-larvae densities of the waters of identified spawning/nursery grounds for commercial fisheries of the southern waters of Hong Kong (ERM, 1998) and those of western Lantau (ERM 2006).

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Appendix 14.1 Annex A Common Fishing Vessels in Hong Kong



Plate 1 Stern Trawler *



Plate 2 Shrimp Trawler *



Plate 3 Pair Trawler *



Plate 4 Hang Trawler *



Plate 5 Sampan (Long Lining)



Plate 6 Sampan (Gill Netting)



Plate 7 Purse Seiner



Plate 8 Miscellaneous Craft

* indicates vessels which have been banned from operation in Hong Kong waters since 31 December 2012

**Appendix 14.1 Annex B Literature Review of CMP Trawling
 Survey Data from 2006-2013**

Figure 1a: Catch per unit effort (CPUE) of fish and crustacean

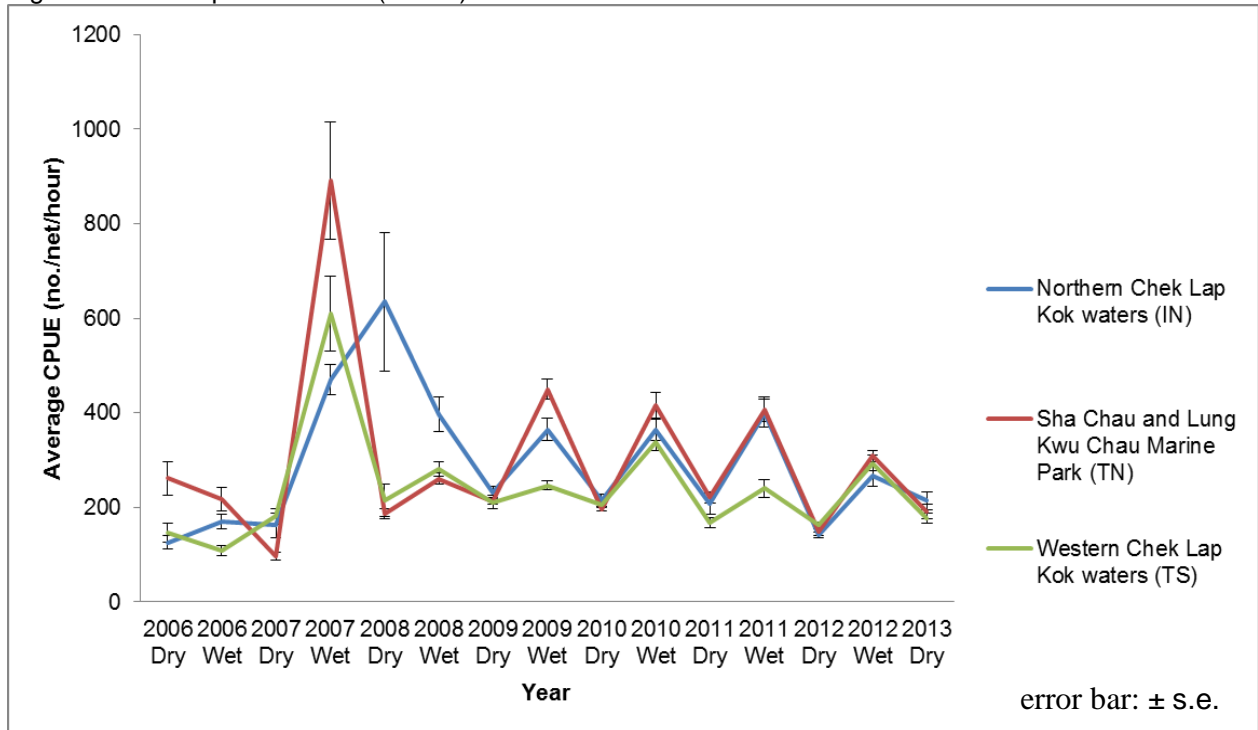


Figure 1b: Yield per unit effort (YPUE) of fish and crustacean

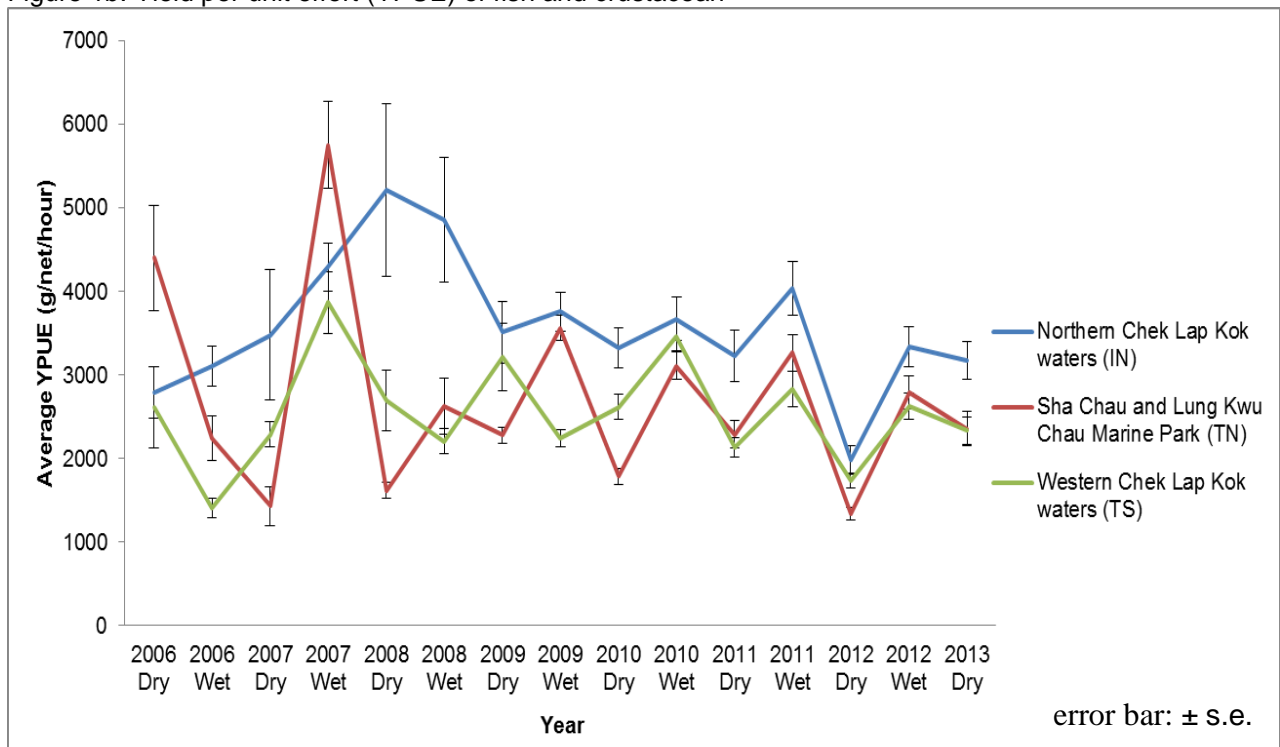


Figure 2a: CPUE of other species

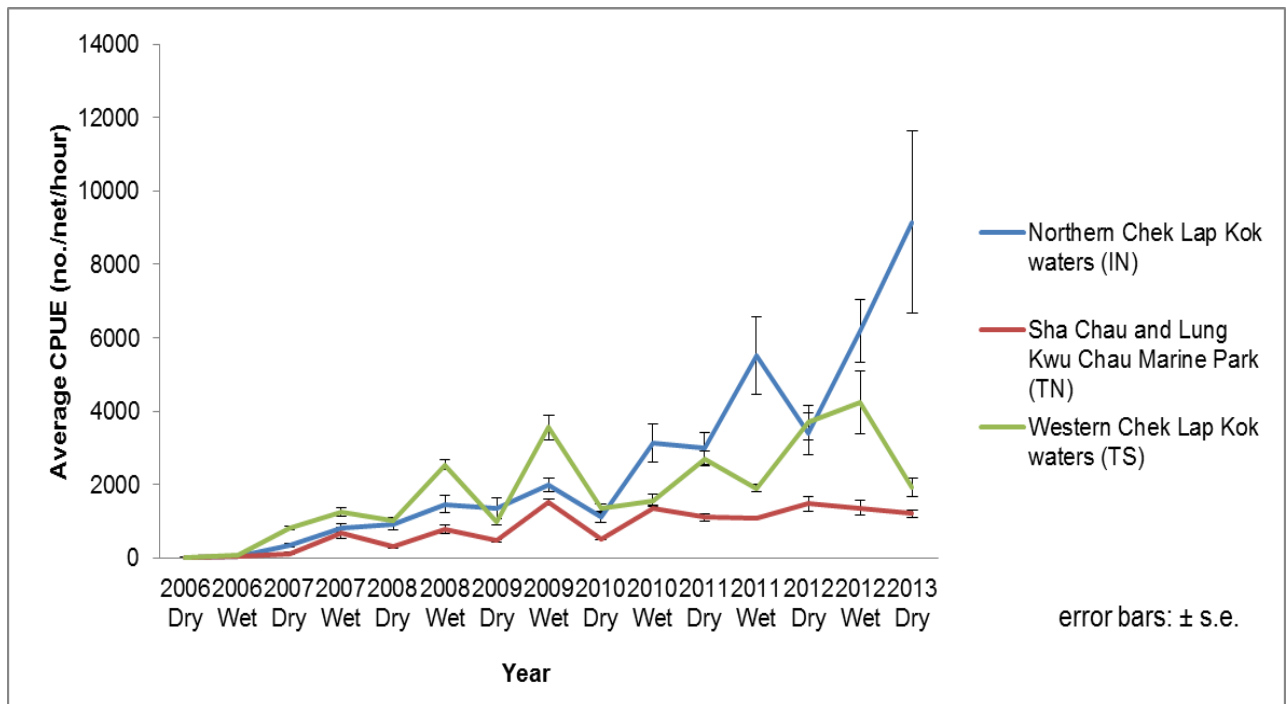
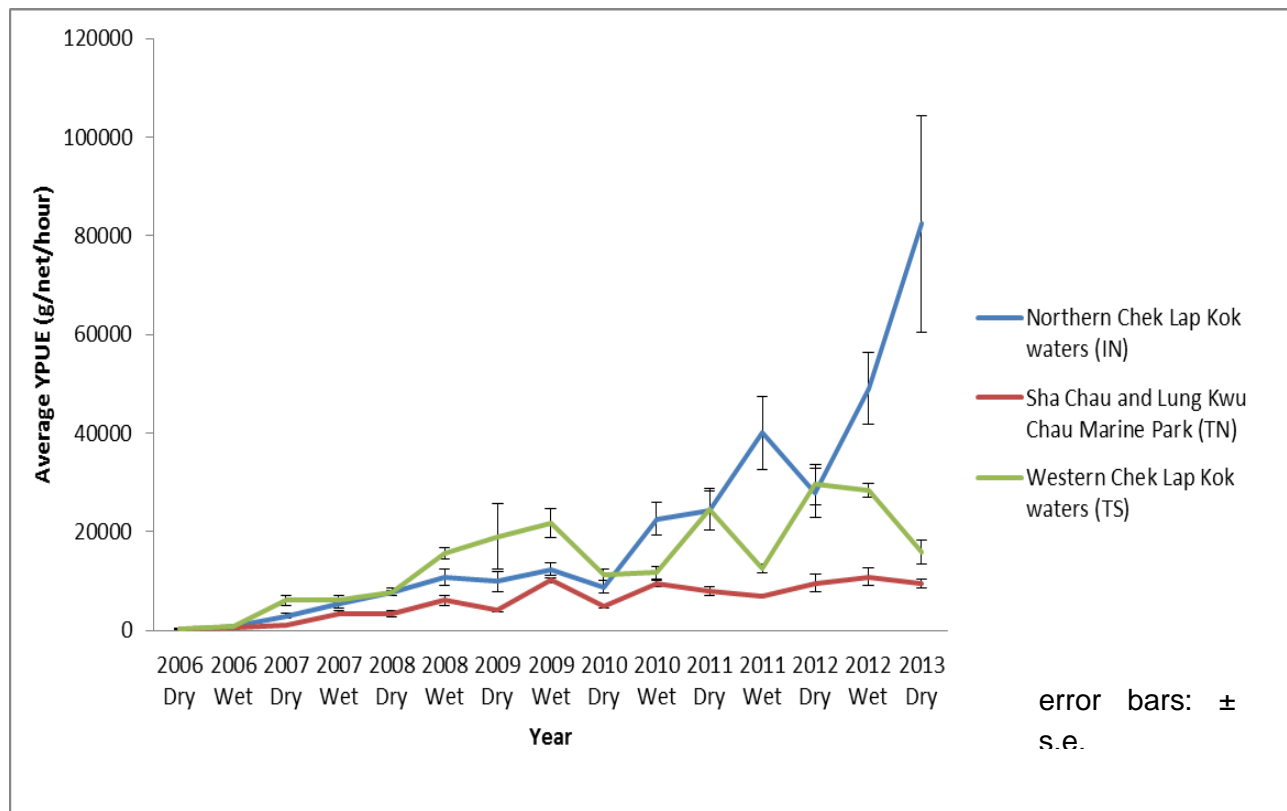


Figure 2a: YPUE of other species



Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

Appendix 14.1 Annex C Literature Review of Species Recorded in CMP Trawling Survey from 2006 to 2013

Total abundance of different species recorded from 2006 to 2013 in northern Chek Lap Kok water (IN station)

Species Group	Order	Family	Species	Abundance Recorded
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	656036
Barnacle	Sessilia	Balanidae	<i>Balanus sp.</i>	30522
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	22934
Bivalve	Veneroidea	Veneridae	<i>Venerupis philippinarum</i>	20528
Crab			<i>hermit crab</i>	14662
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	13285
Cnidarian	Pennatulacea	Pennatulidae	<i>Pteroeides chinense</i>	9684
Echinoderm	Pennatulacea	Veretillidae	<i>Cavernularia habereri</i>	8578
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	7971
Bivalve	Veneroidea	Veneridae	<i>Paphia undulata</i>	7928
Gastropod	Gastropoda	Pseudomelatomidae	<i>Inquistor flavidula</i>	5059
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	4690
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	4556
Barnacle	Sessilia	Balanidae	<i>Amphibalanus sp.</i>	3820
Gastropod	Neogastropoda	Clavatulidae	<i>Turricula javana</i>	3068
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	2897
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	2601
Crab	Decapoda	Euryplacidae	<i>Eucreta crenata</i>	2334
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	2279
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	2084
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	2002
Bivalve	Arcoidea	Arcidae	<i>Tegillarca nodifera</i>	1854
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	1693
Bivalve	Veneroidea	Veneridae	<i>Chione isabellina</i>	1626
Bivalve	Arcoidea	Arcidae	<i>Anadara ferruginea</i>	1559
Echinoderm	Pennatulacea	Virgulariidae	<i>Virgularia gustaviana</i>	1520
Gastropod	Neogastropoda	Clavatulidae	<i>Turricula nelliae</i>	1520
Crab	Decapoda	Porcellanidae	<i>Porcellanella triloba</i>	1502
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	1466
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>	1261
		Others		29239
		Total		870758

2006 Dry

Species	Commercial value	Abundance
<i>Charybdis affinis</i>	Nil	347
<i>Parachaeturichthys polynema</i>	Low	178
<i>Oratosquilla interrupta</i>	High	96
<i>Harpisquilla harpax</i>	High	84
<i>Leiognathus brevisrostris</i>	Medium	78
<i>Johnius belangerii</i>	Low	62
<i>Alephus digitalis</i>	Low	51
<i>Galene bispinosa</i>	Nil	47
<i>Alcockpenaeopsis hungerfordii</i>	High	42
<i>Cynoglossus arel</i>	High	39
<i>Trypauchen vagina</i>	Low	33
<i>Oratosquilla oratoria</i>	High	27
<i>Sea Pen</i>	Nil	23
<i>Charybdis hellerii</i>	Low	22
<i>Polydactylus sextarius</i>	Medium	21
<i>Metapenaeopsis palmensis</i>	High	18
<i>Oxyurichthys tentacularis</i>	Low	15
<i>Platycephalus indicus</i>	Medium	15
<i>Metapenaeus ensis</i>	High	14
<i>Solea ovata</i>	Medium	12

2006 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	745
<i>Metapenaeus affinis</i>	High	418
<i>Charybdis affinis</i>	Nil	297
<i>Sea Pen</i>	Nil	282
<i>Leiognathus brevisrostris</i>	Medium	273
<i>Siganus canaliculatus</i>	Low	257
<i>Stolephorus indicus</i>	Low	231
<i>Trypauchen vagina</i>	Low	200
<i>Platycephalus indicus</i>	Medium	189
<i>Johnius belangerii</i>	Low	162
<i>Alcockpenaeopsis hungerfordii</i>	High	147
<i>Harpisquilla harpax</i>	High	133
<i>Oratosquilla interrupta</i>	High	117
<i>Murex trapa</i>	Nil	109
<i>Parachaeturichthys polynema</i>	Low	102
<i>Cynoglossus arel</i>	High	97
<i>Fenneropenaeus penicillatus</i>	High	84
<i>Metapenaeus ensis</i>	High	80
<i>hermit crab</i>	Nil	50
<i>Glossogobius giuris</i>	Low	47

2007 Dry

Species	Commercial value	Abundance
<i>Cavernularia habereri</i>	Nil	2047
<i>Turritella terebra</i>	Low	1533
<i>Charybdis sp.</i>	Nil	1366
<i>Charybdis affinis</i>	Nil	532
<i>Virgularia gustaviana</i>	Nil	493
<i>Murex trapa</i>	Nil	321
<i>hermit crab</i>	Nil	235
<i>Turricula nelliae</i>	Nil	192
<i>Molpadia roretzii</i>	Nil	155
<i>Paphia undulata</i>	Low	108
<i>Eucreta crenata</i>	Nil	86
<i>Nassarius succinctus</i>	Nil	81
<i>Charybdis feriata</i>	High	79
<i>Philine orientalis</i>	Nil	75
<i>Oratosquilla oratoria</i>	High	65
<i>Alcockpenaeopsis hungerfordii</i>	High	64
<i>Typhlocarcinus sp.</i>	Nil	64
<i>Ellisella laevis</i>	Nil	62
<i>Platycephalus indicus</i>	Medium	60
<i>Cynoglossus arel</i>	High	59

2007 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	8914
<i>Charybdis sp.</i>	Nil	2514
<i>Cavernularia habereri</i>	Nil	2101
<i>Murex trapa</i>	Nil	2093
<i>Charybdis variegata</i>	Nil	1808
<i>hermit crab</i>	Nil	571
<i>Oratosquilla interrupta</i>	High	371
<i>Platycephalus indicus</i>	Medium	260
<i>Metapenaeus ensis</i>	High	253
<i>Metapenaeus affinis</i>	High	229
<i>Trypauchen vagina</i>	Low	186
<i>Molpadia roretzii</i>	Nil	167
<i>Fenneropenaeus penicillatus</i>	High	156
<i>Typhlocarcinus sp.</i>	Nil	153
<i>Parapenaeopsis tenella</i>	Low	149
<i>Leiognathus brevisrostris</i>	Medium	137
<i>Portunus pelagicus</i>	High	114
<i>Johnius belangerii</i>	Low	112
<i>Charybdis affinis</i>	Nil	108
<i>Parachaeturichthys polynema</i>	Low	92

2008 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	13147
<i>Charybdis sp.</i>	Nil	1749
<i>hermit crab</i>	Nil	1342
<i>Murex trapa</i>	Nil	1193
<i>Cavernularia habereri</i>	Nil	951
<i>Nassarius succinctus</i>	Nil	240
<i>Charybdis affinis</i>	Nil	237
<i>Lophiotoma leucotropis</i>	Nil	135
<i>Paphia undulata</i>	Low	134
<i>Platycephalus indicus</i>	Medium	133
<i>Virgularia gustaviana</i>	Nil	133
<i>Trypauchen vagina</i>	Low	127
<i>Scapharca subcrenata</i>	Low	114
<i>Cynoglossus arel</i>	High	107
<i>Acaudina molpadioides</i>	Nil	106
<i>Venerupis philippinarum</i>	Low	100
<i>Gerres filamentosus</i>	Low	98
<i>Eucreta crenata</i>	Nil	90
<i>Leucosia craniolaris</i>	Nil	89
<i>Parapenaeopsis tenella</i>	Low	74

2008 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	19586
<i>Murex trapa</i>	Nil	3211
<i>hermit crab</i>	Nil	1342
<i>Cavernularia habereri</i>	Nil	1228
<i>Siganus fuscescens</i>	Medium	1143
<i>Paphia undulata</i>	Low	1084
<i>Charybdis sp.</i>	Nil	998
<i>Turricula nelliae</i>	Nil	851
<i>Siganus canaliculatus</i>	Low	698
<i>Acaudina molpadioides</i>	Nil	673
<i>Nassarius succinctus</i>	Nil	509
<i>Metapenaeus affinis</i>	High	382
<i>Trypauchen vagina</i>	Low	308
<i>Lophiotoma leucotropis</i>	Nil	304
<i>Virgularia gustaviana</i>	Nil	296
<i>Eucreta crenata</i>	Nil	264
<i>Scapharca subcrenata</i>	Low	250
<i>Macrophthalmus definitus</i>	Nil	241
<i>Lovenia subcarinata</i>	Nil	231
<i>Metapenaeus ensis</i>	High	224

2009 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	22781
<i>Charybdis</i> sp.	Nil	1094
<i>Paphia undulata</i>	Low	1004
<i>Amphibalanus</i> sp.	Nil	965
<i>hermit crab</i>	Nil	885
<i>Murex trapa</i>	Nil	773
<i>Nassarius succinctus</i>	Nil	409
<i>Acaudina molpadioides</i>	Nil	375
<i>Leiognathus brevis</i>	Medium	358
<i>Charybdis affinis</i>	Nil	325
<i>Eucreta crenata</i>	Nil	287
<i>Cavernularia habereri</i>	Nil	266
<i>Virgularia gustaviana</i>	Nil	219
<i>Trypauchen vagina</i>	Low	196
<i>Oratosquilla interrupta</i>	High	169
<i>Lophiotoma leucotropis</i>	Nil	151
<i>Parapenaeopsis tenella</i>	Low	137
<i>Ellisella laevis</i>	Nil	109
<i>Cynoglossus arel</i>	High	83
<i>Inegocia japonica</i>	Low	83

2010 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	38438
<i>Paphia undulata</i>	Low	3266
<i>Charybdis</i> sp.	Nil	1506
<i>Balanus</i> sp.	Nil	1360
<i>hermit crab</i>	Nil	1339
<i>Morula mutica</i>	Nil	1339
<i>Murex trapa</i>	Nil	778
<i>Amphibalanus</i> sp.	Nil	692.4
<i>Nassarius succinctus</i>	Nil	565
<i>Inquistor flavidula</i>	Nil	349
<i>Scapharca subcrenata</i>	Low	348
<i>Turricula javana</i>	Nil	342
<i>Charybdis affinis</i>	Nil	320
<i>Venerupis philippinarum</i>	Low	265
<i>Cavernularia habereri</i>	Nil	263
<i>Tegillarca nodifera</i>	Low	236
<i>Eucreta crenata</i>	Nil	204
<i>Trypauchen vagina</i>	Low	171
<i>Leiognathus brevis</i>	Medium	128
<i>Parapenaeopsis tenella</i>	Low	102

2011 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	47688
<i>Balanus</i> sp.	Nil	3460
<i>Paphia undulata</i>	Low	2018
<i>Nassarius succinctus</i>	Nil	934
<i>Charybdis</i> sp.	Nil	867
<i>Inquistor flavidula</i>	Nil	795
<i>hermit crab</i>	Nil	587
<i>Turricula javana</i>	Nil	514
<i>Venerupis philippinarum</i>	Low	493
<i>Murex trapa</i>	Nil	409
<i>Charybdis affinis</i>	Nil	364
<i>Nassarius hepaticus</i>	Nil	285
<i>Morula mutica</i>	Nil	207
<i>Pilosabia pilosa</i>	Nil	178
<i>Chione isabellina</i>	Nil	159
<i>Trypauchen vagina</i>	Low	146
<i>Cynoglossus arel</i>	High	130
<i>Eucreta crenata</i>	Nil	94
<i>Cavernularia habereri</i>	Nil	79
<i>Acaudina molpadioides</i>	Nil	75

2012 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	54822
<i>Balanus</i> sp.	Nil	8708
<i>Charybdis</i> sp.	Nil	841
<i>hermit crab</i>	Nil	831
<i>Paphia undulata</i>	Low	810
<i>Venerupis philippinarum</i>	Low	569
<i>Inquistor flavidula</i>	Nil	543
<i>Crassostrea</i> sp.	Nil	420
<i>Morula mutica</i>	Nil	408
<i>Temnopleurus toreumaticus</i>	Nil	364
<i>Acaudina molpadioides</i>	Nil	262
<i>Murex trapa</i>	Nil	253
<i>Nassarius succinctus</i>	Nil	192
<i>Leiognathus brevis</i>	Medium	151
<i>Trypauchen vagina</i>	Low	140
<i>Cavernularia habereri</i>	Nil	106
<i>Fenneropenaeus merguensis</i>	High	95
<i>Turricula nelliae</i>	Nil	95
<i>Trichotropis</i> sp.	Nil	90
<i>Chlamys nobilis</i>	Low	87

2009 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	31570
<i>Amphibalanus</i> sp.	Nil	2163
<i>Paphia undulata</i>	Low	2148
<i>Charybdis</i> sp.	Nil	2074
<i>Anadara ferruginea</i>	Low	1351
<i>hermit crab</i>	Nil	1144
<i>Murex trapa</i>	Nil	1135
<i>Nassarius succinctus</i>	Nil	656
<i>Macoma candida</i>	Nil	312
<i>Parapenaeopsis tenella</i>	Low	291
<i>Eucreta crenata</i>	Nil	256
<i>Fenneropenaeus penicillatus</i>	High	244
<i>Platycephalus indicus</i>	Medium	236
<i>Carcinactis ichikawai</i>	Nil	233
<i>Portunus pelagicus</i>	High	230
<i>Trypauchen vagina</i>	Low	221
<i>Acaudina molpadioides</i>	Nil	206
<i>Oratosquilla interrupta</i>	High	197
<i>Metapenaeus affinis</i>	High	196
<i>Inegocia japonica</i>	Low	184

2010 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	35210
<i>Venerupis philippinarum</i>	Low	17702
<i>Balanus</i> sp.	Nil	3338
<i>Paphia undulata</i>	Low	2262
<i>Nassarius succinctus</i>	Nil	1427
<i>Charybdis</i> sp.	Nil	1274
<i>hermit crab</i>	Nil	1038
<i>Murex trapa</i>	Nil	878
<i>Metapenaeus ensis</i>	High	829
<i>Morula mutica</i>	Nil	813
<i>Tegillarca nodifera</i>	Low	652
<i>Metapenaeus affinis</i>	High	434
<i>Charybdis affinis</i>	Nil	397
<i>Siganus canaliculatus</i>	Low	351
<i>Trypauchen vagina</i>	Low	326
<i>Inquistor flavidula</i>	Nil	306
<i>Cavernularia habereri</i>	Nil	260
<i>Eucreta crenata</i>	Nil	205
<i>Leiognathus brevis</i>	Medium	193
<i>Platycephalus indicus</i>	Medium	178

2011 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	93490
<i>Balanus</i> sp.	Nil	3950
<i>Paphia undulata</i>	Low	2620
<i>hermit crab</i>	Nil	2346
<i>Nassarius succinctus</i>	Nil	1938
<i>Inquistor flavidula</i>	Nil	1666
<i>Charybdis</i> sp.	Nil	1496
<i>Turricula javana</i>	Nil	1403
<i>Murex trapa</i>	Nil	1235
<i>Morula mutica</i>	Nil	1037
<i>Chione isabellina</i>	Nil	832
<i>Leiognathus brevis</i>	Medium	784
<i>Venerupis philippinarum</i>	Low	705
<i>Calyptraea</i> sp.	Nil	678
<i>Eucreta crenata</i>	Nil	597
<i>Tegillarca nodifera</i>	Low	590
<i>Metapenaeus affinis</i>	High	459
<i>Macoma candida</i>	Nil	418
<i>Cavernularia habereri</i>	Nil	294
<i>Metapenaeus ensis</i>	High	250

2012 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	111531
<i>Balanus</i> sp.	Nil	5268
<i>hermit crab</i>	Nil	1445
<i>Inquistor flavidula</i>	Nil	1113
<i>Charybdis</i> sp.	Nil	1112
<i>Ostrea</i> sp.	Low	902
<i>Murex trapa</i>	Nil	697
<i>Cavernularia habereri</i>	Nil	639
<i>Morula mutica</i>	Nil	612
<i>Nassarius succinctus</i>	Nil	524
<i>Turricula javana</i>	Nil	452
<i>Venerupis philippinarum</i>	Low	426
<i>Paphia undulata</i>	Low	314
<i>Leiognathus brevis</i>	Medium	306
<i>Trypauchen vagina</i>	Low	297
<i>Eucreta crenata</i>	Nil	198
<i>Portunus pelagicus</i>	High	150
<i>Metapenaeus ensis</i>	High	138
<i>Siphopatella walshi</i>	Nil	138
<i>Calyptraea</i> sp.	Nil	120

2013 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	176578
<i>Balanus</i> sp.	Nil	4438
<i>hermit crab</i>	Nil	1500
<i>Charybdis</i> sp.	Nil	1038
<i>Inquistor flavidula</i>	Nil	548
<i>Nassarius succinctus</i>	Nil	417
<i>Fenneropenaeus merguensis</i>	High	334
<i>Murex trapa</i>	Nil	190
<i>Cavernularia habereri</i>	Nil	164
<i>Turricula javana</i>	Nil	142
<i>Leiognathus brevisrostris</i>	Medium	133
<i>Charybdis affinis</i>	Nil	115
<i>Venerupis philippinarum</i>	Low	97
<i>Cynoglossus arel</i>	High	95
<i>Platycephalus indicus</i>	Medium	91
<i>Solea ovata</i>	Medium	79
<i>Parapenaeopsis tenella</i>	Low	77
<i>Trypauchen vagina</i>	Low	74
<i>Virgularia gustaviana</i>	Nil	70
<i>Oratosquilla oratoria</i>	High	67

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

Total yield of different species recorded from 2006 to 2013 in Chek Lap Kok water (IN station)

Species Group	Order	Family	Species	Yield Recorded (g)
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	5591388.9
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	242487.4
Cnidarian	Pennatulacea	Pennatulidae	<i>Pteroeides chinense</i>	178434.6
Bivalve	Veneroida	Veneridae	<i>Venerupis philippinarum</i>	103291.2
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	88437.3
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	66498.5
Crab			<i>hermit crab</i>	50652.2
Bivalve	Veneroida	Veneridae	<i>Paphia undulata</i>	46390.6
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	45237.0
Echinoderm	Pennatulacea	Veretillidae	<i>Cavernularia habereri</i>	43184.3
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	35460.2
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	34461.8
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	32963.3
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus arel</i>	31705.9
Crab	Decapoda	Portunidae	<i>Portunus pelagicus</i>	29156.7
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	28955.9
Bivalve	Arcoida	Arcidae	<i>Anadara sativa</i>	26085.6
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	25401.3
Fish	Perciformes	Siganidae	<i>Siganus fuscescens</i>	24583.0
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	23056.5
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	21338.5
Prawn or shrimp	Decapoda	Penaeidae	<i>Fenneropenaeus merguensis</i>	20617.8
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>	20147.0
Mantis shrimp	Stomatopoda	Squillidae	<i>Harpisquilla harpax</i>	19687.8
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	18646.9
Fish	Perciformes	Sciaenidae	<i>Johnius amblycephalus</i>	17984.8
Crab	Decapoda	Euryplacidae	<i>Eucrata crenata</i>	16001.5
Fish	Perciformes	Gobiidae	<i>Acentrogobius caninus</i>	14881.5
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	14619.8
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	14088.1
		Others		396149.5
		Total		7321995.4

2006 Dry

Species	Commercial value	Yield (g)
<i>Charybdis affinis</i>	Nil	9555.9
<i>Harpisquilla harpax</i>	High	1943.4
<i>Oratosquilla interrupta</i>	High	1935.2
<i>Johnius belangerii</i>	Low	1569.87
<i>Parachaeturichthys polynema</i>	Low	1418.4
<i>Galene bispinosa</i>	Nil	1311
<i>Portunus trituberculatus</i>	High	1236.8
<i>Charybdis feriata</i>	High	1080.5
<i>Platycephalus indicus</i>	Medium	1038.7
<i>Cynoglossus arel</i>	High	1023.2
<i>Leiognathus brevisrostris</i>	Medium	669.1
<i>Oratosquilla oratoria</i>	High	605.8
<i>Plotosus lineatus</i>	Low	570.3
<i>Nemipterus japonicus</i>	Low	550.5
<i>Polydactylus sextarius</i>	Medium	461.8
<i>Fenneropenaeus merguensis</i>	High	456.7
<i>Trypauchen vagina</i>	Low	420.4
<i>Sea Pen</i>	Nil	349.9
<i>Alephus digitalis</i>	Low	290.1
<i>Alcockpenaeopsis hungerfordii</i>	High	267.6

2006 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	8817.6
<i>Johnius belangerii</i>	Low	6120.4
<i>Charybdis affinis</i>	Nil	5767
<i>Platycephalus indicus</i>	Medium	5504
<i>Harpisquilla harpax</i>	High	5487.8
<i>Siganus canaliculatus</i>	Low	3953.9
<i>Metapenaeus affinis</i>	High	3737.2
<i>Cynoglossus arel</i>	High	3269.8
<i>Sea Pen</i>	Nil	3134.5
<i>Trypauchen vagina</i>	Low	2996.2
<i>Portunus pelagicus</i>	High	2913.8
<i>Leiognathus brevisrostris</i>	Medium	2899.5
<i>Oratosquilla interrupta</i>	High	2530.2
<i>Parachaeturichthys polynema</i>	Low	1378.2
<i>Charybdis feriata</i>	High	1346.9
<i>Portunus trituberculatus</i>	High	1329
<i>Fenneropenaeus penicillatus</i>	High	1292
<i>Scatophagus argus</i>	High	1287.1
<i>Alcockpenaeopsis hungerfordii</i>	High	1237.6
<i>Murex trapa</i>	Nil	1012.4

2007 Dry

Species	Commercial value	Yield (g)
<i>Charybdis affinis</i>	Nil	14275.4
<i>Cavernularia habereri</i>	Nil	13449.8
<i>Turritella terebra</i>	Low	12143.9
<i>Charybdis sp.</i>	Nil	9846.5
<i>Charybdis feriata</i>	High	9402.2
<i>Lateolabrax japonicus</i>	High	8857.9
<i>Platycephalus indicus</i>	Medium	5345.8
<i>Cynoglossus arel</i>	High	2023.5
<i>Oratosquilla oratoria</i>	High	1924.3
<i>Murex trapa</i>	Nil	1845.2
<i>Fenneropenaeus merguensis</i>	High	1494.4
<i>Molpadia roretzii</i>	Nil	1453.7
<i>Virgularia gustaviana</i>	Nil	1442.2
<i>Gerres filamentosus</i>	Low	1343.4
<i>Johnius belangerii</i>	Low	1337.4
<i>Johnius amblycephalus</i>	Low	1311.9
<i>Eucrata crenata</i>	Nil	1284.4
<i>Leiognathus brevisrostris</i>	Medium	873.1
<i>Charybdis natator</i>	Low	827.8
<i>Paphia undulata</i>	Low	809.2

2007 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	51734
<i>Charybdis sp.</i>	Nil	13598
<i>Murex trapa</i>	Nil	11157.8
<i>Charybdis variegata</i>	Nil	8096
<i>Portunus pelagicus</i>	High	7991.2
<i>Oratosquilla interrupta</i>	High	7751.8
<i>Platycephalus indicus</i>	Medium	7100.5
<i>Cavernularia habereri</i>	Nil	6522.7
<i>Johnius belangerii</i>	Low	2714.9
<i>Trypauchen vagina</i>	Low	2585.4
<i>Metapenaeus affinis</i>	High	2511.9
<i>Harpisquilla harpax</i>	High	2380.4
<i>Fenneropenaeus penicillatus</i>	High	2348.8
<i>Charybdis affinis</i>	Nil	2144.6
<i>hermit crab</i>	Nil	2053.7
<i>Metapenaeus ensis</i>	High	1965
<i>Molpadia roretzii</i>	Nil	1959
<i>Galene bispinosa</i>	Nil	1731.2
<i>Portunus trituberculatus</i>	High	1721.6
<i>Acentrogobius caninus</i>	Low	1707.1

2008 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	84784
<i>Charybdis sp.</i>	Nil	9927
<i>Charybdis affinis</i>	Nil	7667.3
<i>Murex trapa</i>	Nil	7495.6
<i>Platycephalus indicus</i>	Medium	5977
<i>hermit crab</i>	Nil	5447.2
<i>Cavernularia habereri</i>	Nil	5442.5
<i>Charybdis feriata</i>	High	3912.4
<i>Cynoglossus arel</i>	High	2723.1
<i>Portunus pelagicus</i>	High	2646.8
<i>Acaudina molpadioides</i>	Nil	2570.7
<i>Fenneropenaeus merguensis</i>	High	2126.9
<i>Johnius belangerii</i>	Low	2100.8
<i>Gerres filamentosus</i>	Low	2002.8
<i>Oratosquilla oratoria</i>	High	1761.7
<i>Johnius amblycephalus</i>	Low	1547
<i>Trypauchen vagina</i>	Low	1540.8
<i>Nibea soldado</i>	High	1264.4
<i>Scapharca subcrenata</i>	Low	1172.4
<i>Perna viridis</i>	Low	1154

2008 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	127056
<i>Siganus fuscescens</i>	Medium	24460
<i>Scapharca subcrenata</i>	Low	23566.8
<i>Murex trapa</i>	Nil	21077
<i>Acaudina molpadioides</i>	Nil	13792.2
<i>Siganus canaliculatus</i>	Low	11675
<i>Paphia undulata</i>	Low	7116.2
<i>Cavernularia habereri</i>	Nil	6508.7
<i>Charybdis sp.</i>	Nil	6157
<i>Metapenaeus affinis</i>	High	5916.6
<i>Platycephalus indicus</i>	Medium	5151.5
<i>Turricula nelliae</i>	Nil	5099.2
<i>hermit crab</i>	Nil	5096.9
<i>Trypauchen vagina</i>	Low	4712.8
<i>Charybdis affinis</i>	Nil	3036.9
<i>Portunus pelagicus</i>	High	2952.6
<i>Oratosquilla interrupta</i>	High	2458.2
<i>Cynoglossus arel</i>	High	2157.8
<i>Fenneropenaeus penicillatus</i>	High	1955.1
<i>Macrophthalmus definitus</i>	Nil	1664

2009 Dry		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	153689
<i>Charybdis affinis</i>	Nil	10574.5
<i>Acaudina molpadioides</i>	Nil	8730
<i>Murex trapa</i>	Nil	8321
<i>Charybdis sp.</i>	Nil	7417
<i>Paphia undulata</i>	Low	5678.8
<i>Leiognathus brevisrostris</i>	Medium	5363.9
<i>Oratosquilla interrupta</i>	High	3827.9
<i>Dasyatis akajei</i>	Low	3762
<i>Platycephalus indicus</i>	Medium	3040
<i>hermit crab</i>	Nil	2840
<i>Cynoglossus arel</i>	High	2718.2
<i>Trypauchen vagina</i>	Low	2699.8
<i>Johnius amblycephalus</i>	Low	2627.4
<i>Ellisella laevis</i>	Nil	2418
<i>Octopus sp.</i>	Low	2372.1
<i>Charybdis feriata</i>	High	2061.7
<i>Eucreta crenata</i>	Nil	2026.5
<i>Nibea soldado</i>	High	1994.5
<i>Gerres filamentosus</i>	Low	1782.1

2009 Wet		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	213503
<i>Portunus pelagicus</i>	High	15130
<i>Charybdis sp.</i>	Nil	13797
<i>Paphia undulata</i>	Low	10812.2
<i>Murex trapa</i>	Nil	7107
<i>Anadara ferruginea</i>	Low	6597.2
<i>Platycephalus indicus</i>	Medium	5507
<i>Acaudina molpadioides</i>	Nil	4603.2
<i>hermit crab</i>	Nil	4427
<i>Oratosquilla interrupta</i>	High	3740
<i>Trypauchen vagina</i>	Low	3455
<i>Charybdis affinis</i>	Nil	3010
<i>Fenneropenaeus penicillatus</i>	High	2925
<i>Inegocia japonica</i>	Low	2637
<i>Acentrogobius caninus</i>	Low	2607
<i>Leiognathus brevisrostris</i>	Medium	1755
<i>Parapenaeopsis tenella</i>	Low	1729
<i>Cynoglossus arel</i>	High	1710
<i>Macoma candida</i>	Nil	1620.1
<i>Metapenaeus affinis</i>	High	1585

2010 Dry		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	343050
<i>Paphia undulata</i>	Low	19604.4
<i>Scapharca subcrenata</i>	Low	15211.2
<i>Charybdis sp.</i>	Nil	14760
<i>Charybdis affinis</i>	Nil	11310
<i>Morula mutica</i>	Nil	6906.8
<i>Charybdis feriata</i>	High	6060
<i>Murex trapa</i>	Nil	5192.2
<i>hermit crab</i>	Nil	4274
<i>Johnius amblycephalus</i>	Low	3015
<i>Johnius belangerii</i>	Low	2870
<i>Chrysochir aureus</i>	High	2855
<i>Platycephalus indicus</i>	Medium	2665
<i>Trypauchen vagina</i>	Low	2475
<i>Oratosquilla oratoria</i>	High	2400
<i>Oratosquilla interrupta</i>	High	2265
<i>Cynoglossus arel</i>	High	2169
<i>Octopus sp.</i>	Low	2130
<i>Leiognathus brevisrostris</i>	Medium	1890
<i>Lateolabrax japonicus</i>	High	1823

2010 Wet		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	328420
<i>Venerupis philippinarum</i>	Low	84549
<i>Paphia undulata</i>	Low	12372.2
<i>Charybdis sp.</i>	Nil	9920
<i>Metapenaeus ensis</i>	High	8030
<i>Morula mutica</i>	Nil	5653.4
<i>Murex trapa</i>	Nil	5510.2
<i>Scapharca subcrenata</i>	Low	5041.2
<i>Platycephalus indicus</i>	Medium	4410
<i>Trypauchen vagina</i>	Low	4095
<i>Metapenaeus affinis</i>	High	3855
<i>hermit crab</i>	Nil	3839
<i>Charybdis affinis</i>	Nil	3718
<i>Siganus canaliculatus</i>	Low	3620
<i>Tegillarca nodifera</i>	Low	3408.6
<i>Oratosquilla interrupta</i>	High	3155
<i>Galene bispinosa</i>	Nil	3081.4
<i>Leiognathus brevisrostris</i>	Medium	2289
<i>Nassarius succinctus</i>	Nil	2104
<i>Acaudina molpadioides</i>	Nil	2068.1

2011 Dry		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	446102
<i>Paphia undulata</i>	Low	10870
<i>Charybdis sp.</i>	Nil	9896
<i>Charybdis affinis</i>	Nil	9387
<i>Cynoglossus arel</i>	High	3142
<i>Murex trapa</i>	Nil	2735
<i>hermit crab</i>	Nil	2432
<i>Venerupis philippinarum</i>	Low	2290
<i>Platycephalus indicus</i>	Medium	1968
<i>Nassarius succinctus</i>	Nil	1967
<i>Trypauchen vagina</i>	Low	1912
<i>Charybdis feriata</i>	High	1898
<i>Balanus sp.</i>	Nil	1658
<i>Inquistor flavidula</i>	Nil	1606
<i>Johnius amblycephalus</i>	Low	1457
<i>Acaudina molpadioides</i>	Nil	1076
<i>Morula mutica</i>	Nil	1031.8
<i>Cynoglossus robustus</i>	High	906
<i>Saurida tumbil</i>	Low	854
<i>Dasyatis zugei</i>	Low	842

2011 Wet		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	733990
<i>Paphia undulata</i>	Low	16628
<i>Portunus trituberculatus</i>	High	16068
<i>Charybdis sp.</i>	Nil	9978
<i>Platycephalus indicus</i>	Medium	8377
<i>Murex trapa</i>	Nil	8270
<i>Portunus pelagicus</i>	High	8114
<i>Leiognathus brevisrostris</i>	Medium	6744
<i>hermit crab</i>	Nil	6014
<i>Morula mutica</i>	Nil	5872
<i>Acaudina molpadioides</i>	Nil	4129.6
<i>Chione isabellina</i>	Nil	4064.2
<i>Nassarius succinctus</i>	Nil	3895
<i>Inquistor flavidula</i>	Nil	3034
<i>Eucreta crenata</i>	Nil	2913.2
<i>Tegillarca nodifera</i>	Low	2828.6
<i>Oratosquilla interrupta</i>	High	2726
<i>Venerupis philippinarum</i>	Low	2706.6
<i>Turricula javana</i>	Nil	2677.9
<i>Charybdis affinis</i>	Nil	2664

2012 Dry		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	517950
<i>Charybdis sp.</i>	Nil	8712
<i>Venerupis philippinarum</i>	Low	7785
<i>Paphia undulata</i>	Low	5674
<i>Octopus sp.</i>	Low	5072
<i>Balanus sp.</i>	Nil	4140
<i>Fenneropenaeus merguensis</i>	High	3442
<i>Acaudina molpadioides</i>	Nil	3130.8
<i>hermit crab</i>	Nil	2889
<i>Platycephalus indicus</i>	Medium	2888
<i>Temnopleurus toreumaticus</i>	Nil	2667.8
<i>Inquistor flavidula</i>	Nil	2395.3
<i>Morula mutica</i>	Nil	2343.9
<i>Leiognathus brevisrostris</i>	Medium	2042
<i>Murex trapa</i>	Nil	1780.6
<i>Charybdis feriata</i>	High	1750
<i>Trypauchen vagina</i>	Low	1622
<i>Cynoglossus arel</i>	High	1510
<i>Crassostrea sp.</i>	Nil	1471
<i>Charybdis affinis</i>	Nil	1430

2012 Wet		
Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	932970
<i>Portunus pelagicus</i>	High	14172
<i>Charybdis sp.</i>	Nil	10121
<i>Murex trapa</i>	Nil	5705.4
<i>hermit crab</i>	Nil	5191
<i>Leiognathus brevisrostris</i>	Medium	4128
<i>Trypauchen vagina</i>	Low	3984
<i>Cavernularia habereri</i>	Nil	3677.8
<i>Acaudina molpadioides</i>	Nil	3261.8
<i>Harpisquilla harpax</i>	High	3072
<i>Morula mutica</i>	Nil	2897.2
<i>Nibea albiflora</i>	High	2848
<i>Venerupis philippinarum</i>	Low	2835.6
<i>Platycephalus indicus</i>	Medium	2479
<i>Balanus sp.</i>	Nil	2458
<i>Inquistor flavidula</i>	Nil	2366.7
<i>Paphia undulata</i>	Low	2198.4
<i>Scatophagus argus</i>	High	2114
<i>Eucreta crenata</i>	Nil	2065.8
<i>Charybdis feriata</i>	High	2020

2013 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	1637140
<i>Fenneropenaeus merguensis</i>	High	8890
<i>Charybdis</i> sp.	Nil	8000
<i>Platycephalus indicus</i>	Medium	5047
<i>hermit crab</i>	Nil	5021
<i>Dasyatis zugei</i>	Low	4538
<i>Cynoglossus arel</i>	High	3180
<i>Charybdis affinis</i>	Nil	2838
<i>Charybdis feriata</i>	High	2686
<i>Scapharca subcrenata</i>	Low	2661.6
<i>Balanus</i> sp.	Nil	2015
<i>Oratosquilla oratoria</i>	High	1936
<i>Leiognathus brevisrostris</i>	Medium	1836
<i>Epinephelus bruneus</i>	High	1654
<i>Johnius belangerii</i>	Low	1448
<i>Acentrogobius caninus</i>	Low	1158
<i>Murex trapa</i>	Nil	1155.2
<i>Johnius amblycephalus</i>	Low	1150
<i>Pseudorhombus cinnamomeus</i>	Medium	982
<i>Cavernularia habereri</i>	Nil	925.1

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

Total abundance of different species recorded from 2006 to 2013 in SCLKC marine park (TN station)

Species Group	Order	Family	Species	Abundance Recorded
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	141153
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	29704
Barnacle	Sessilia	Balanidae	<i>Balanus sp.</i>	25612
Crab			<i>hermit crab</i>	11429
Bivalve	Veneroida	Veneridae	<i>Venerupis philippinarum</i>	11229
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	10754
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	10609
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	5854
Echinoderm	Pennatulacea	Veretillidae	<i>Cavernularia habereri</i>	5496
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	5055
Bivalve	Veneroida	Veneridae	<i>Paphia undulata</i>	5037
Prawn or shrimp	Decapoda	Penaeidae	<i>Parapenaeopsis tenella</i>	4978
Bivalve	Veneroida	Tellinidae	<i>Macoma candida</i>	4912
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	4100
Bivalve	Arcoida	Arcidae	<i>Tegillarca nodifera</i>	4064
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	3991
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	3645
Gastropod	Gastropoda	Pseudomelatomidae	<i>Inquistor flavidula</i>	3232
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	2679
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	2676
Echinoderm	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	2675
Bivalve	Arcoida	Arcidae	<i>Anadara sativa</i>	2248
Bivalve	Arcoida	Arcidae	<i>Anadara ferruginea</i>	2222
Crab	Decapoda	Euryplacidae	<i>Eucrate crenata</i>	2111
Prawn or shrimp	Decapoda	Solenoceridae	<i>Solenocera crassicornis</i>	1532
Prawn or shrimp	Decapoda	Penaeidae	<i>Alcockpenaeopsis hungerfordii</i>	1355
Echinoderm	Actiniaria	Edwardsiidae	<i>Edwardsia japonica (c.f.)</i>	1317
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1136
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	1095
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus arel</i>	1021
			Others	23298
			Total	336219

2006 Dry

Species	Commercial value	Abundance
<i>Charybdis affinis</i>	Nil	637
<i>Oratosquilla interrupta</i>	High	582
<i>Alcockpenaeopsis hungerfordii</i>	High	220
<i>Alephus digitalis</i>	Low	146
<i>Galene bispinosa</i>	Nil	140
<i>Solenocera crassicornis</i>	Medium	129
<i>Trypauchen vagina</i>	Low	117
<i>Charybdis sp.</i>	Nil	90
<i>Cynoglossus arel</i>	High	60
<i>Johnius belangerii</i>	Low	58
<i>Metapenaeopsis barbata</i>	High	51
<i>Oxyurichthys tentacularis</i>	Low	46
<i>Parachaeturichthys polynema</i>	Low	38
<i>Leiognathus brevirostris</i>	Medium	35
<i>Kumococius rodericensis</i>	Low	32
<i>Oratosquilla nepa</i>	High	24
<i>Heikeopsis japonica</i>	Nil	17
<i>Hoplichthys langsdorfii</i>	Low	10
<i>Glossogobius giuris</i>	Low	8
<i>Oratosquilla oratoria</i>	High	7

2006 Wet

Species	Commercial value	Abundance
<i>Metapenaeus affinis</i>	High	644
<i>Oratosquilla interrupta</i>	High	494
<i>Alcockpenaeopsis hungerfordii</i>	High	321
<i>Trypauchen vagina</i>	Low	320
<i>Johnius belangerii</i>	Low	287
<i>Solenocera crassicornis</i>	Medium	228
<i>Ambassis gymnocephalus</i>	Low	227
<i>Turritella terebra</i>	Low	224
<i>Charybdis affinis</i>	Nil	220
<i>Metapenaeus ensis</i>	High	197
<i>Oratosquilla oratoria</i>	High	157
<i>Polydactylus sextarius</i>	Medium	143
<i>Platycephalus indicus</i>	Medium	107
<i>Parachaeturichthys polynema</i>	Low	104
<i>Cynoglossus arel</i>	High	97
<i>hermit crab</i>	Nil	91
<i>Sillago sihama</i>	High	70
<i>Portunus trituberculatus</i>	High	64
<i>Siganus canaliculatus</i>	Low	62
<i>Sea Pen</i>	Nil	60

2007 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	988
<i>Molpadia roretzii</i>	Nil	626
<i>Cavernularia habereri</i>	Nil	492
<i>Charybdis affinis</i>	Nil	343
<i>Alcockpenaeopsis hungerfordii</i>	High	242
<i>Oratosquilla interrupta</i>	High	167
<i>Charybdis sp.</i>	Nil	148
<i>Eucrate crenata</i>	Nil	148
<i>hermit crab</i>	Nil	112
<i>Parachaeturichthys polynema</i>	Low	98
<i>Murex trapa</i>	Nil	96
<i>Johnius belangerii</i>	Low	89
<i>Alpheus sp.</i>	Low	67
<i>Solenocera crassicornis</i>	Medium	65
<i>Snakefish sp.1</i>	Low	61
<i>Oratosquilla oratoria</i>	High	55
<i>Cynoglossus arel</i>	High	49
<i>Nassarius succinctus</i>	Nil	49
<i>Alephus digitalis</i>	Low	45
<i>Turricula nelliae</i>	Nil	34

2007 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	10471
<i>Charybdis sp.</i>	Nil	7280
<i>Charybdis variegata</i>	Nil	4206
<i>Murex trapa</i>	Nil	2332
<i>Oratosquilla interrupta</i>	High	907
<i>hermit crab</i>	Nil	760
<i>Parapenaeopsis tenella</i>	Low	497
<i>Alcockpenaeopsis hungerfordii</i>	High	495
<i>Charybdis affinis</i>	Nil	423
<i>Johnius belangerii</i>	Low	323
<i>Molpadia roretzii</i>	Nil	316
<i>Metapenaeus affinis</i>	High	311
<i>Nassarius succinctus</i>	Nil	263
<i>Metapenaeopsis palmensis</i>	High	242
<i>Trypauchen vagina</i>	Low	233
<i>Platycephalus indicus</i>	Medium	231
<i>Metapenaeus ensis</i>	High	224
<i>Oratosquilla oratoria</i>	High	187
<i>Harpadon nehereus</i>	Medium	170
<i>Cavernularia habereri</i>	Nil	139

2008 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	4180
<i>Charybdis sp.</i>	Nil	922
<i>hermit crab</i>	Nil	798
<i>Acaudina molpadioides</i>	Nil	626
<i>Parapenaeopsis tenella</i>	Low	539
<i>Cavernularia habereri</i>	Nil	512
<i>Murex trapa</i>	Nil	417
<i>Scapharca subcrenata</i>	Low	266
<i>Charybdis affinis</i>	Nil	238
<i>Parachaeturichthys polynema</i>	Low	208
<i>Venerupis philippinarum</i>	Low	154
<i>Nassarius succinctus</i>	Nil	148
<i>Eucrete crenata</i>	Nil	130
<i>Oratosquilla interrupta</i>	High	122
<i>Temnopleurus toreumaticus</i>	Nil	108
<i>Cynoglossus arel</i>	High	99
<i>Metapenaeus affinis</i>	High	83
<i>Macoma candida</i>	Nil	69
<i>Solenocera crassicornis</i>	Medium	64
<i>Lophiotoma leucotropis</i>	Nil	58

2009 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	5793
<i>Charybdis sp.</i>	Nil	883
<i>hermit crab</i>	Nil	828
<i>Murex trapa</i>	Nil	663
<i>Nassarius succinctus</i>	Nil	608
<i>Acaudina molpadioides</i>	Nil	603
<i>Amphibalanus sp.</i>	Nil	578
<i>Parapenaeopsis tenella</i>	Low	547
<i>Cavernularia habereri</i>	Nil	261
<i>Charybdis feriata</i>	High	238
<i>Eucrete crenata</i>	Nil	229
<i>Charybdis affinis</i>	Nil	225
<i>Oratosquilla interrupta</i>	High	222
<i>Tegillarca nodifera</i>	Low	217
<i>Paphia undulata</i>	Low	176
<i>Trypauchen vagina</i>	Low	132
<i>Morula mutica</i>	Nil	119
<i>Parachaeturichthys polynema</i>	Low	100
<i>Cynoglossus arel</i>	High	92
<i>Lophiotoma leucotropis</i>	Nil	89

2010 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	11129
<i>hermit crab</i>	Nil	1501
<i>Charybdis sp.</i>	Nil	1338
<i>Paphia undulata</i>	Low	1036
<i>Balanus sp.</i>	Nil	1032
<i>Venerupis philippinarum</i>	Low	983
<i>Nassarius succinctus</i>	Nil	894
<i>Murex trapa</i>	Nil	893
<i>Tegillarca nodifera</i>	Low	845
<i>Morula mutica</i>	Nil	779
<i>Parapenaeopsis tenella</i>	Low	604
<i>Scapharca subcrenata</i>	Low	552
<i>Acaudina molpadioides</i>	Nil	394
<i>Solenocera crassicornis</i>	Medium	394
<i>Charybdis affinis</i>	Nil	363
<i>Macoma candida</i>	Nil	235
<i>Eucrete crenata</i>	Nil	194
<i>Inquistor flavidula</i>	Nil	189
<i>Pentaprion longimanus</i>	Low	146
<i>Amphibalanus sp.</i>	Nil	143

2011 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	10357
<i>Balanus sp.</i>	Nil	3186
<i>Venerupis philippinarum</i>	Low	2708
<i>Paphia undulata</i>	Low	894
<i>Charybdis sp.</i>	Nil	828
<i>Morula mutica</i>	Nil	806
<i>hermit crab</i>	Nil	581
<i>Inquistor flavidula</i>	Nil	525
<i>Charybdis affinis</i>	Nil	480
<i>Parapenaeopsis tenella</i>	Low	274
<i>Nassarius succinctus</i>	Nil	272
<i>Murex trapa</i>	Nil	238
<i>Macoma candida</i>	Nil	157
<i>Cavernularia habereri</i>	Nil	134
<i>Solenocera crassicornis</i>	Medium	112
<i>Eucrete crenata</i>	Nil	76
<i>Cynoglossus arel</i>	High	75
<i>Chione isabellina</i>	Nil	73
<i>Acaudina molpadioides</i>	Nil	72
<i>Tegillarca nodifera</i>	Low	70

2008 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	8406
<i>Murex trapa</i>	Nil	1620
<i>Macoma candida</i>	Nil	1291
<i>Cavernularia habereri</i>	Nil	1282
<i>Charybdis sp.</i>	Nil	1179
<i>hermit crab</i>	Nil	1162
<i>Paphia undulata</i>	Low	884
<i>Scapharca subcrenata</i>	Low	786
<i>Metapenaeus affinis</i>	High	531
<i>Acaudina molpadioides</i>	Nil	477
<i>Nassarius succinctus</i>	Nil	454
<i>Tegillarca nodifera</i>	Low	371
<i>Trypauchen vagina</i>	Low	272
<i>Lophiotoma leucotropis</i>	Nil	213
<i>Ambassis gymnocephalus</i>	Low	157
<i>Oratosquilla interrupta</i>	High	155
<i>Morula mutica</i>	Nil	144
<i>Metapenaeus ensis</i>	High	136
<i>Harpadon microchir</i>	Medium	128
<i>Virgularia gustaviana</i>	Nil	126

2009 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	22912
<i>Charybdis sp.</i>	Nil	2935
<i>Anadara ferruginea</i>	Low	2169
<i>Nassarius succinctus</i>	Nil	1408
<i>hermit crab</i>	Nil	1123
<i>Murex trapa</i>	Nil	1050
<i>Paphia undulata</i>	Low	912
<i>Parapenaeopsis tenella</i>	Low	711
<i>Morula mutica</i>	Nil	654
<i>Metapenaeus affinis</i>	High	609
<i>Metapenaeus ensis</i>	High	489
<i>Oratosquilla interrupta</i>	High	404
<i>Trypauchen vagina</i>	Low	362
<i>Scapharca subcrenata</i>	Low	362
<i>Cavernularia habereri</i>	Nil	309
<i>Macoma candida</i>	Nil	281
<i>Charybdis affinis</i>	Nil	256
<i>Acaudina molpadioides</i>	Nil	220
<i>Platycephalus indicus</i>	Medium	197
<i>Temnopleurus toreumaticus</i>	Nil	190

2010 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	9602
<i>Venerupis philippinarum</i>	Low	4173
<i>Paphia undulata</i>	Low	2928
<i>Balanus sp.</i>	Nil	2888
<i>Metapenaeus ensis</i>	High	2552
<i>Nassarius succinctus</i>	Nil	2490
<i>Macoma candida</i>	Nil	1704
<i>Charybdis sp.</i>	Nil	1481
<i>Morula mutica</i>	Nil	1295
<i>Murex trapa</i>	Nil	1137
<i>hermit crab</i>	Nil	988
<i>Tegillarca nodifera</i>	Low	940
<i>Scapharca subcrenata</i>	Low	568
<i>Metapenaeus affinis</i>	High	511
<i>Acaudina molpadioides</i>	Nil	491
<i>Charybdis affinis</i>	Nil	425
<i>Cavernularia habereri</i>	Nil	318
<i>Trypauchen vagina</i>	Low	242
<i>Inquistor flavidula</i>	Nil	180
<i>Oratosquilla interrupta</i>	High	163

2011 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	7330
<i>Balanus sp.</i>	Nil	3122
<i>Nassarius succinctus</i>	Nil	2600
<i>Paphia undulata</i>	Low	2074
<i>Charybdis sp.</i>	Nil	1442
<i>Inquistor flavidula</i>	Nil	1221
<i>Murex trapa</i>	Nil	1178
<i>Metapenaeus affinis</i>	High	1104
<i>hermit crab</i>	Nil	1027
<i>Morula mutica</i>	Nil	980
<i>Tegillarca nodifera</i>	Low	945
<i>Temnopleurus toreumaticus</i>	Nil	807
<i>Cavernularia habereri</i>	Nil	596
<i>Charybdis affinis</i>	Nil	574
<i>Metapenaeus ensis</i>	High	524
<i>Eucrete crenata</i>	Nil	442
<i>Chione isabellina</i>	Nil	391
<i>Parapenaeopsis tenella</i>	Low	389
<i>Scapharca subcrenata</i>	Low	380
<i>Acaudina molpadioides</i>	Nil	373

2012 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	17009
<i>Balanus sp.</i>	Nil	7000
<i>Venerupis philippinarum</i>	Low	1525
<i>Temnopleurus toreumaticus</i>	Nil	1217
<i>Paphia undulata</i>	Low	1020
<i>Charybdis sp.</i>	Nil	832
<i>hermit crab</i>	Nil	761
<i>Morula mutica</i>	Nil	364
<i>Nassarius succinctus</i>	Nil	336
<i>Cavernularia habereri</i>	Nil	327
<i>Parapenaeopsis tenella</i>	Low	261
<i>Acaudina molpadioides</i>	Nil	237
<i>Inquistor flavidula</i>	Nil	235
<i>Crassostrea sp.</i>	Nil	217
<i>Murex trapa</i>	Nil	150
<i>Tegillarca nodifera</i>	Low	144
<i>Trypauchen vagina</i>	Low	113
<i>Eucreta crenata</i>	Nil	86
<i>Charybdis affinis</i>	Nil	82
<i>Leiofnathus brevisrostris</i>	Medium	62

2013 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	18560
<i>Balanus sp.</i>	Nil	3160
<i>Charybdis sp.</i>	Nil	1043
<i>hermit crab</i>	Nil	824
<i>Venerupis philippinarum</i>	Low	492
<i>Inquistor flavidula</i>	Nil	391
<i>Leiofnathus brevisrostris</i>	Medium	359
<i>Parapenaeopsis tenella</i>	Low	337
<i>Murex trapa</i>	Nil	325
<i>Cavernularia habereri</i>	Nil	265
<i>Morula mutica</i>	Nil	258
<i>Nassarius succinctus</i>	Nil	227
<i>Charybdis affinis</i>	Nil	171
<i>Temnopleurus toreumaticus</i>	Nil	166
<i>Nibea albiflora</i>	High	126
<i>Scapharca subcrenata</i>	Low	114
<i>Metapenaeus ensis</i>	High	102
<i>Acaudina molpadioides</i>	Nil	102
<i>Collichthys lucidus</i>	High	87
<i>Johnius amblycephalus</i>	Low	85

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

2012 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	14189
<i>Balanus sp.</i>	Nil	4192
<i>Scapharca subcrenata</i>	Low	1334
<i>Edwardsia japonica</i>	Nil	1314
<i>Charybdis sp.</i>	Nil	1057
<i>Venerupis philippinarum</i>	Low	891
<i>hermit crab</i>	Nil	870
<i>Nassarius succinctus</i>	Nil	860
<i>Cavernularia habereri</i>	Nil	784
<i>Macoma candida</i>	Nil	769
<i>Inquistor flavidula</i>	Nil	752
<i>Metapenaeus ensis</i>	High	668
<i>Murex trapa</i>	Nil	626
<i>Parapenaeopsis tenella</i>	Low	586
<i>Tegillarca nodifera</i>	Low	484
<i>Morula mutica</i>	Nil	428
<i>Solenocera crassicornis</i>	Medium	417
<i>Trypauchen vagina</i>	Low	402
<i>Acaudina molpadioides</i>	Nil	396
<i>Ostrea sp.</i>	Low	381

Total yield of different species recorded from 2006 to 2013 in SCLKC marine park (TN station)

Species Group	Order	Family	Species	Yield Recorded (g)
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	1110086.9
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	234754.0
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	146956.0
Bivalve	Arcoida	Arcidae	<i>Anadara sativa</i>	103609.1
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	70173.6
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	61572.9
Bivalve	Veneroidea	Veneridae	<i>Venerupis philippinarum</i>	55159.0
Crab			<i>hermit crab</i>	43839.5
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	33615.1
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	30972.4
Bivalve	Veneroidea	Veneridae	<i>Paphia undulata</i>	29034.0
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	28586.1
Bivalve	Veneroidea	Tellinidae	<i>Macoma candida</i>	27758.2
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	27060.7
Echinoderm	Pennatulacea	Veretillidae	<i>Cavernularia habereri</i>	26444.1
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	25070.3
Prawn or shrimp	Decapoda	Penaeidae	<i>Parapenaeopsis tenella</i>	23449.8
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	21153.3
Echinoderm	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	20129.6
Bivalve	Arcoida	Arcidae	<i>Tegillarca nodifera</i>	19051.8
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	18574.5
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus arel</i>	17017.5
Crab	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	15098.5
Crab	Decapoda	Euryplacidae	<i>Eucrate crenata</i>	14819.1
Echinoderm	Actiniaria	Edwardsiidae	<i>Edwardsia japonica (c.f.)</i>	14472.0
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	14264.4
Echinoderm	Molpadida	Molpadiidae	<i>Molpadia roretzii</i>	12586.6
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	12523.3
Cnidarian	Pennatulacea	Pennatulidae	<i>Pteroeides chinense</i>	11753.9
Fish	Perciformes	Sciaenidae	<i>Johnius amblycephalus</i>	11587.3
		Others		279050.6
		Total		2560224.1

2006 Dry

Species	Commercial value	Yield (g)
<i>Charybdis affinis</i>	Nil	14139.5
<i>Oratosquilla interrupta</i>	High	9990.1
<i>Galene bispinosa</i>	Nil	3610.7
<i>Charybdis sp.</i>	Nil	3275.1
<i>Johnius belangerii</i>	Low	1821.4
<i>Trypauchen vagina</i>	Low	1223.5
<i>Alcockpenaeopsis hungerfordii</i>	High	1085.9
<i>Alephus digitalis</i>	Low	876.1
<i>Cynoglossus arel</i>	High	852.2
<i>Muraenesox cinereus</i>	Medium	470
<i>Oxyurichthys tentacularis</i>	Low	453.4
<i>Solenocera crassicornis</i>	Medium	400.2
<i>Parachaeturichthys polynema</i>	Low	377.2
<i>Leiognathus brevisrostris</i>	Medium	339.4
<i>Platycephalus indicus</i>	Medium	302.9
<i>Metapenaeopsis barbata</i>	High	251.5
<i>Oratosquilla nepa</i>	High	220.2
<i>Heikeopsis japonica</i>	Nil	150.9
<i>Pampus argenteus</i>	High	146
<i>Kumococius rodericensis</i>	Low	108.3

2006 Wet

Species	Commercial value	Yield (g)
<i>Oratosquilla interrupta</i>	High	7532.1
<i>Metapenaeus affinis</i>	High	4823.6
<i>Portunus trituberculatus</i>	High	4761.8
<i>Johnius belangerii</i>	Low	4742.2
<i>Charybdis affinis</i>	Nil	3349
<i>Trypauchen vagina</i>	Low	2791.5
<i>Turritella terebra</i>	Low	2496.5
<i>Oratosquilla oratoria</i>	High	1807
<i>Alcockpenaeopsis hungerfordii</i>	High	1768.9
<i>Scapharca subcrenata</i>	Low	1612.4
<i>Metapenaeus ensis</i>	High	1522.9
<i>Portunus pelagicus</i>	High	1502.4
<i>Platycephalus indicus</i>	Medium	1458.3
<i>Sillago sihama</i>	High	1353.3
<i>Cynoglossus arel</i>	High	992.4
<i>Harpisquilla harpax</i>	High	915.9
<i>Johnius amblycephalus</i>	Low	880.5
<i>Parachaeturichthys polynema</i>	Low	863.6
<i>Harpadon nehereus</i>	Medium	855.4
<i>Polydactylus sextarius</i>	Medium	713.3

2007 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	7284.9
<i>Molpadia roretzii</i>	Nil	6508.9
<i>Charybdis affinis</i>	Nil	6207.2
<i>Lateolabrax japonicus</i>	High	3900
<i>Cavernularia habereri</i>	Nil	3001.9
<i>Oratosquilla interrupta</i>	High	2805.7
<i>Johnius belangerii</i>	Low	2136.1
<i>Eucrate crenata</i>	Nil	1874.5
<i>Scapharca subcrenata</i>	Low	1120
<i>Alcockpenaeopsis hungerfordii</i>	High	1106.7
<i>Charybdis sp.</i>	Nil	916.2
<i>Oratosquilla oratoria</i>	High	908.7
<i>Murex trapa</i>	Nil	827.8
<i>Snakefish sp. 1</i>	Low	816.9
<i>Parachaeturichthys polynema</i>	Low	816.4
<i>Cynoglossus arel</i>	High	767.2
<i>Collichthys lucidus</i>	High	749.3
<i>Platycephalus indicus</i>	Medium	556.9
<i>Charybdis feriata</i>	High	461.7
<i>Pinctada imbricata</i>	Nil	420.2

2007 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	46600
<i>Charybdis sp.</i>	Nil	31920
<i>Charybdis variegata</i>	Nil	18270
<i>Murex trapa</i>	Nil	12476.3
<i>Oratosquilla interrupta</i>	High	12293.8
<i>Molpadia roretzii</i>	Nil	6077.7
<i>Johnius belangerii</i>	Low	6068.4
<i>Charybdis affinis</i>	Nil	4890.9
<i>Portunus pelagicus</i>	High	4263.2
<i>hermit crab</i>	Nil	3640.3
<i>Harpadon nehereus</i>	Medium	3585.2
<i>Metapenaeus affinis</i>	High	3380.6
<i>Parapenaeopsis tenella</i>	Low	2793
<i>Platycephalus indicus</i>	Medium	2778.4
<i>Oratosquilla oratoria</i>	High	2509.9
<i>Metapenaeopsis palmensis</i>	High	2289.2
<i>Trypauchen vagina</i>	Low	2269.6
<i>Alcockpenaeopsis hungerfordii</i>	High	2164.4
<i>Johnius amblycephalus</i>	Low	1808
<i>Galene bispinosa</i>	Nil	1777.9

2008 Dry

Species	Commercial value	Yield (g)
<i>Acaudina molpadioides</i>	Nil	27547
<i>Turritella terebra</i>	Low	22798.1
<i>Scapharca subcrenata</i>	Low	7212
<i>Charybdis affinis</i>	Nil	5557.6
<i>Mastigias sp.</i>	Nil	5440
<i>Charybdis sp.</i>	Nil	5326.2
<i>hermit crab</i>	Nil	3524.1
<i>Cavernularia habereri</i>	Nil	2968.5
<i>Parapenaeopsis tenella</i>	Low	2575.1
<i>Murex trapa</i>	Nil	2451
<i>Cynoglossus arel</i>	High	1692.4
<i>Oratosquilla interrupta</i>	High	1687.9
<i>Parachaeturichthys polynema</i>	Low	1355.6
<i>Metapenaeus affinis</i>	High	1157.2
<i>Temnopleurus toreumaticus</i>	Nil	1120.8
<i>Platycephalus indicus</i>	Medium	1087.1
<i>Venerupis philippinarum</i>	Low	808.3
<i>Charybdis feriata</i>	High	781.6
<i>Eucrate crenata</i>	Nil	754
<i>Johnius belangerii</i>	Low	666

2008 Wet

Species	Commercial value	Yield (g)
<i>Scapharca subcrenata</i>	Low	52271.2
<i>Turritella terebra</i>	Low	49283.2
<i>Murex trapa</i>	Nil	12017.6
<i>Macoma candida</i>	Nil	9986.6
<i>Acaudina molpadioides</i>	Nil	9444.1
<i>Harpadon microchir</i>	Medium	8073.2
<i>Charybdis sp.</i>	Nil	6738.8
<i>Metapenaeus affinis</i>	High	5246
<i>Cavernularia habereri</i>	Nil	5034.4
<i>Paphia undulata</i>	Low	4919.8
<i>hermit crab</i>	Nil	4357.2
<i>Charybdis affinis</i>	Nil	3674.7
<i>Platycephalus indicus</i>	Medium	3412.8
<i>Oratosquilla interrupta</i>	High	3061.9
<i>Trypauchen vagina</i>	Low	2915
<i>Siganus canaliculatus</i>	Low	2006.4
<i>Johnius belangerii</i>	Low	1507.9
<i>Jelly fish</i>	Nil	1362
<i>Tegillarca nodifera</i>	Low	1261.7
<i>Metapenaeus ensis</i>	High	985.2

2009 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	42437
<i>Acaudina molpadioides</i>	Nil	27070
<i>Charybdis affinis</i>	Nil	6935.9
<i>Charybdis sp.</i>	Nil	5784
<i>Oratosquilla interrupta</i>	High	4801.4
<i>Murex trapa</i>	Nil	4281.8
<i>hermit crab</i>	Nil	3106
<i>Parapenaeopsis tenella</i>	Low	2992.8
<i>Chelon macrolepis</i>	Low	2018.7
<i>Eucrate crenata</i>	Nil	2000.1
<i>Charybdis feriata</i>	High	1855.2
<i>Cynoglossus arel</i>	High	1837.4
<i>Platycephalus indicus</i>	Medium	1599.3
<i>Trypauchen vagina</i>	Low	1304.8
<i>Cavernularia habereri</i>	Nil	1283.4
<i>Scapharca subcrenata</i>	Low	1268.4
<i>Octopus sp.</i>	Low	1267.4
<i>Tegillarca nodifera</i>	Low	1061
<i>Fenneropenaeus penicillatus</i>	High	961
<i>Dasyatis zugei</i>	Low	898.2

2010 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	101772
<i>Scapharca subcrenata</i>	Low	28316
<i>Acaudina molpadioides</i>	Nil	22166.8
<i>Charybdis sp.</i>	Nil	12685
<i>Charybdis affinis</i>	Nil	9095
<i>hermit crab</i>	Nil	5564
<i>Murex trapa</i>	Nil	5347
<i>Paphia undulata</i>	Low	5293.2
<i>Venerupis philippinarum</i>	Low	5036.4
<i>Tegillarca nodifera</i>	Low	3772.2
<i>Morula mutica</i>	Nil	3371.2
<i>Parapenaeopsis tenella</i>	Low	2765
<i>Jelly fish</i>	Nil	2664
<i>Oratosquilla interrupta</i>	High	2445
<i>Nassarius succinctus</i>	Nil	1847.6
<i>Solenocera crassicornis</i>	Medium	1754
<i>Eucrate crenata</i>	Nil	1556.1
<i>Pentaprimon longimanus</i>	Low	1165
<i>Lateolabrax japonicus</i>	High	1130
<i>Macoma candida</i>	Nil	1044

2011 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	70289
<i>Venerupis philippinarum</i>	Low	10669
<i>Charybdis affinis</i>	Nil	9202
<i>Charybdis sp.</i>	Nil	6230
<i>Acaudina molpadioides</i>	Nil	5172
<i>Paphia undulata</i>	Low	4894
<i>Morula mutica</i>	Nil	4271
<i>hermit crab</i>	Nil	2225
<i>Scapharca subcrenata</i>	Low	1552
<i>Balanus sp.</i>	Nil	1485
<i>Murex trapa</i>	Nil	1484.2
<i>Cynoglossus arel</i>	High	1368
<i>Parapenaeopsis tenella</i>	Low	1118
<i>Inquistor flavidula</i>	Nil	1064.4
<i>Cavernularia habereri</i>	Nil	752.2
<i>Macoma candida</i>	Nil	752
<i>Platycephalus indicus</i>	Medium	708
<i>Johnius amblycephalus</i>	Low	682
<i>Dasyatis akajei</i>	Low	650
<i>Eucrate crenata</i>	Nil	605

2012 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	153497
<i>Venerupis philippinarum</i>	Low	9040
<i>Charybdis sp.</i>	Nil	8577
<i>Temnopleurus toreumaticus</i>	Nil	8161
<i>Paphia undulata</i>	Low	5994
<i>Balanus sp.</i>	Nil	3312
<i>Acaudina molpadioides</i>	Nil	3289
<i>hermit crab</i>	Nil	2643
<i>Scapharca subcrenata</i>	Low	2142.4
<i>Morula mutica</i>	Nil	1928.6
<i>Charybdis affinis</i>	Nil	1810
<i>Cavernularia habereri</i>	Nil	1221.8
<i>Parapenaeopsis tenella</i>	Low	1090
<i>Octopus sp.</i>	Low	1010
<i>Murex trapa</i>	Nil	1001.8
<i>Crassostrea sp.</i>	Nil	996.5
<i>Trypauchen vagina</i>	Low	958
<i>Fenneropenaeus merguensis</i>	High	856
<i>Johnius amblycephalus</i>	Low	810
<i>Cynoglossus arel</i>	High	784

2009 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	154054
<i>Charybdis sp.</i>	Nil	15884
<i>Scapharca subcrenata</i>	Low	12215.2
<i>Anadara ferruginea</i>	Low	9809
<i>Oratosquilla interrupta</i>	High	7065
<i>Murex trapa</i>	Nil	7050
<i>Portunus pelagicus</i>	High	6170
<i>Acaudina molpadioides</i>	Nil	6001.1
<i>Paphia undulata</i>	Low	5061
<i>Jelly fish</i>	Nil	4836.4
<i>Platycephalus indicus</i>	Medium	4695
<i>hermit crab</i>	Nil	4358
<i>Charybdis affinis</i>	Nil	4260
<i>Morula mutica</i>	Nil	3733.3
<i>Trypauchen vagina</i>	Low	3555
<i>Parapenaeopsis tenella</i>	Low	3417
<i>Metapenaeus affinis</i>	High	3365
<i>Harpadon nehereus</i>	Medium	2580
<i>Metapenaeus ensis</i>	High	2500
<i>Johnius amblycephalus</i>	Low	2200

2010 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	91204
<i>Scapharca subcrenata</i>	Low	31720
<i>Venerupis philippinarum</i>	Low	20377
<i>Paphia undulata</i>	Low	16748
<i>Acaudina molpadioides</i>	Nil	14911
<i>Metapenaeus ensis</i>	High	12465
<i>Charybdis sp.</i>	Nil	11645
<i>Macoma candida</i>	Nil	8229
<i>Morula mutica</i>	Nil	7984.6
<i>Murex trapa</i>	Nil	7295
<i>Charybdis affinis</i>	Nil	6540
<i>Tegillarca nodifera</i>	Low	4648
<i>Oratosquilla interrupta</i>	High	3390
<i>hermit crab</i>	Nil	3321.2
<i>Nassarius succinctus</i>	Nil	3321
<i>Metapenaeus affinis</i>	High	2495
<i>Trypauchen vagina</i>	Low	2170
<i>Johnius belangerii</i>	Low	1855
<i>Platycephalus indicus</i>	Medium	1840
<i>Cavernularia habereri</i>	Nil	1823.8

2011 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	68032
<i>Scapharca subcrenata</i>	Low	20164
<i>Paphia undulata</i>	Low	13280
<i>Acaudina molpadioides</i>	Nil	12916
<i>Portunus trituberculatus</i>	High	12384
<i>Charybdis sp.</i>	Nil	10605
<i>Charybdis affinis</i>	Nil	8346
<i>Murex trapa</i>	Nil	8309
<i>Morula mutica</i>	Nil	6806
<i>Metapenaeus affinis</i>	High	5996
<i>Temnopleurus toreumaticus</i>	Nil	5295
<i>Nassarius succinctus</i>	Nil	5042
<i>Tegillarca nodifera</i>	Low	4653
<i>hermit crab</i>	Nil	4150
<i>Metapenaeus ensis</i>	High	4076
<i>Oratosquilla interrupta</i>	High	3156
<i>Cavernularia habereri</i>	Nil	2633.2
<i>Eucrate crenata</i>	Nil	2507
<i>Inquistor flavidula</i>	Nil	2297
<i>Trypauchen vagina</i>	Low	2232

2012 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	131498
<i>Scapharca subcrenata</i>	Low	42198.2
<i>Edwardsia japonica</i>	Nil	14454.4
<i>Acaudina molpadioides</i>	Nil	14440
<i>Portunus trituberculatus</i>	High	11736
<i>Charybdis sp.</i>	Nil	9764
<i>Murex trapa</i>	Nil	5088
<i>Venerupis philippinarum</i>	Low	4873
<i>Cavernularia habereri</i>	Nil	4596.8
<i>Metapenaeus ensis</i>	High	4453
<i>Macoma candida</i>	Nil	3998.9
<i>Trypauchen vagina</i>	Low	3502
<i>hermit crab</i>	Nil	3143
<i>Morula mutica</i>	Nil	2513.6
<i>Tegillarca nodifera</i>	Low	2417.2
<i>Oratosquilla interrupta</i>	High	2262
<i>Eucrate crenata</i>	Nil	2257.4
<i>Oratosquilla oratoria</i>	High	2174
<i>Parapenaeopsis tenella</i>	Low	2086
<i>Balanus sp.</i>	Nil	2049

2013 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	168820
<i>Charybdis</i> sp.	Nil	8253
<i>Scapharca subcrenata</i>	Low	5087.6
<i>Platycephalus indicus</i>	Medium	4130
<i>Acaudina molpadioides</i>	Nil	3999
<i>Charybdis affinis</i>	Nil	3946
<i>hermit crab</i>	Nil	2926
<i>Venerupis philippinarum</i>	Low	2790
<i>Leioznathus brevisrostris</i>	Medium	2574
<i>Nibea albiflora</i>	High	2434
<i>Murex trapa</i>	Nil	2309.2
<i>Parapenaeopsis tenella</i>	Low	1798
<i>Collichthys lucidus</i>	High	1720
<i>Balanus</i> sp.	Nil	1499.8
<i>Cynoglossus arel</i>	High	1484
<i>Morula mutica</i>	Nil	1463.6
<i>Temnopleurus toreumaticus</i>	Nil	1396.2
<i>Chrysochir aureus</i>	High	1388
<i>Fenneropenaeus merguensis</i>	High	1342
<i>Metapenaeus ensis</i>	High	1322

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

Total abundance of different species recorded from 2006 to 2013 in western Lantau water (TS station)

Species Group	Order	Family	Species	Abundance Recorded
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	391010
Barnacle	Sessilia	Balanidae	<i>Balanus sp.</i>	29276
Bivalve	Arcoida	Arcidae	<i>Anadara ferruginea</i>	28803
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	24468
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	20385
Bivalve	Arcoida	Arcidae	<i>Tegillarca nodifera</i>	16163
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	15381
Bivalve	Veneroida	Veneridae	<i>Paphia undulata</i>	14209
Crab			<i>hermit crab</i>	12759
Bivalve	Arcoida	Arcidae	<i>Anadara sativa</i>	10084
Bivalve	Veneroida	Tellinidae	<i>Macoma candida</i>	9246
Echinoderm	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	7033
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	4737
Gastropod	Gastropoda	Pseudomelatomidae	<i>Inquistor flavidula</i>	4665
Bivalve	Veneroida	Veneridae	<i>Chione isabellina</i>	3871
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	3768
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	2237
Echinoderm	Pennatulacea	Veretillidae	<i>Cavernularia habereri</i>	1844
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1813
Bivalve	Veneroida	Veneridae	<i>Venerupis philippinarum</i>	1706
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	1682
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	1678
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	1612
Crab	Decapoda	Euryplacidae	<i>Eucrate crenata</i>	1607
Barnacle	Sessilia	Balanidae	<i>Amphibalanus sp.</i>	1353
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	1317
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	1191
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	1158
Gastropod	Neogastropoda	Clavatulidae	<i>Turricula nelliae</i>	1113
Prawn or shrimp	Decapoda	Penaeidae	<i>Parapenaeopsis tenella</i>	1010
		Others		29014
		Total		646193

2006 Dry

Species	Commercial value	Abundance
<i>Charybdis affinis</i>	Nil	441
<i>Johnius belangerii</i>	Low	174
<i>Solenocera crassicornis</i>	Medium	101
<i>Alcockpenaeopsis hungerfordii</i>	High	98
<i>Cynoglossus arel</i>	High	94
<i>Oratosquilla interrupta</i>	High	83
<i>Parachaeturichthys polynema</i>	Low	78
<i>Harpisquilla harpax</i>	High	73
<i>Oxyurichthys tentacularis</i>	Low	53
<i>Alephus digitalis</i>	Low	49
<i>Trypauchen vagina</i>	Low	26
<i>Leiognathus brevisrostris</i>	Medium	24
<i>Turritella terebra</i>	Low	20
<i>Polydactylus sextarius</i>	Medium	18
<i>Ochetostoma erythrogrammon</i>	Nil	16
<i>Anadara ferruginea</i>	Low	13
<i>Heikeopsis japonica</i>	Nil	13
<i>Paphia undulata</i>	Low	12
<i>Oratosquilla oratoria</i>	High	11
<i>Galene bispinosa</i>	Nil	10

2006 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	1184
<i>Alcockpenaeopsis hungerfordii</i>	High	250
<i>Leiognathus brevisrostris</i>	Medium	203
<i>Temnopleurus toreumaticus</i>	Nil	179
<i>Charybdis affinis</i>	Nil	173
<i>Oratosquilla interrupta</i>	High	145
<i>Murex trapa</i>	Nil	124
<i>Paphia undulata</i>	Low	118
<i>Johnius belangerii</i>	Low	115
<i>Oxyurichthys tentacularis</i>	Low	108
<i>Metapenaeus affinis</i>	High	108
<i>hermit crab</i>	Nil	107
<i>Platycephalus indicus</i>	Medium	89
<i>Johnius amblycephalus</i>	Low	88
<i>Metapenaeus ensis</i>	High	83
<i>Fenneropenaeus penicillatus</i>	High	57
<i>Terapon theraps</i>	Low	48
<i>Enoplolambrus validus</i>	Nil	45
<i>Parachaeturichthys polynema</i>	Low	44
<i>Cynoglossus arel</i>	High	43

2007 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	10778
<i>Temnopleurus toreumaticus</i>	Nil	1337
<i>Anadara ferruginea</i>	Low	1312
<i>Charybdis sp.</i>	Nil	1042
<i>Murex trapa</i>	Nil	919
<i>Charybdis affinis</i>	Nil	547
<i>Nassarius succinctus</i>	Nil	484
<i>hermit crab</i>	Nil	470
<i>Pinctada imbricata</i>	Nil	432
<i>Paphia undulata</i>	Low	238
<i>Cavernularia habereri</i>	Nil	214
<i>Oratosquilla oratoria</i>	High	195
<i>Johnius belangerii</i>	Low	188
<i>Scapharca subcrenata</i>	Low	186
<i>Solenocera crassicornis</i>	Medium	155
<i>Metapenaeus ensis</i>	High	139
<i>Indothais lacera</i>	Nil	131
<i>Liza affinis</i>	Medium	118
<i>Chlamys nobilis</i>	Low	110
<i>Johnius amblycephalus</i>	Low	77

2007 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	18550
<i>Charybdis sp.</i>	Nil	6730
<i>Murex trapa</i>	Nil	3259
<i>Charybdis variegata</i>	Nil	1533
<i>Anadara ferruginea</i>	Low	1100
<i>hermit crab</i>	Nil	809
<i>Nassarius succinctus</i>	Nil	607
<i>Macoma candida</i>	Nil	381
<i>Metapenaeus affinis</i>	High	328
<i>Fenneropenaeus penicillatus</i>	High	280
<i>Paphia undulata</i>	Low	272
<i>Oratosquilla interrupta</i>	High	261
<i>Ambassis gymnocephalus</i>	Low	246
<i>Charybdis affinis</i>	Nil	199
<i>Johnius belangerii</i>	Low	194
<i>Platycephalus indicus</i>	Medium	178
<i>Vepricardium asiaticum</i>	Nil	155
<i>Metapenaeopsis palmensis</i>	High	140
<i>Leiognathus brevisrostris</i>	Medium	127
<i>Molpadia roretzii</i>	Nil	102

2008 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	15156
<i>Paphia undulata</i>	Low	1308
<i>Nassarius succinctus</i>	Nil	1194
<i>Charybdis sp.</i>	Nil	1049
<i>Scapharca subcrenata</i>	Low	968
<i>Murex trapa</i>	Nil	833
<i>hermit crab</i>	Nil	698
<i>Anadara ferruginea</i>	Low	638
<i>Polydactylus sextarius</i>	Medium	593
<i>Temnopleurus toreumaticus</i>	Nil	553
<i>Nibea soldado</i>	High	502
<i>Chelon macrolepis</i>	Low	219
<i>Charybdis affinis</i>	Nil	192
<i>Chione isabellina</i>	Nil	117
<i>Oratosquilla oratoria</i>	High	113
<i>Pinctada imbricata</i>	Nil	101
<i>Cynoglossus arel</i>	High	79
<i>Harpisquilla harpax</i>	High	72
<i>Johnius belangerii</i>	Low	70
<i>Lophiotoma leucotropis</i>	Nil	68

2008 Wet

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	35340
<i>Paphia undulata</i>	Low	4270
<i>Tegillarca nodifera</i>	Low	2708
<i>Macoma candida</i>	Nil	2571
<i>Nassarius succinctus</i>	Nil	2229
<i>hermit crab</i>	Nil	1483
<i>Murex trapa</i>	Nil	1379
<i>Scapharca subcrenata</i>	Low	1104
<i>Charybdis sp.</i>	Nil	1044
<i>Acaudina molpadioides</i>	Nil	589
<i>Chione isabellina</i>	Nil	550
<i>Cavernularia habereri</i>	Nil	489
<i>Turricula nelliae</i>	Nil	453
<i>Metapenaeus ensis</i>	High	402
<i>Leiognathus brevisrostris</i>	Medium	348
<i>Chlorostoma rustica</i>	Low	303
<i>Morula mutica</i>	Nil	268
<i>Fenneropenaeus penicillatus</i>	High	235
<i>Nassarius hepaticus</i>	Nil	191
<i>Lophiotoma leucotropis</i>	Nil	189

2009 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	13958
<i>Paphia undulata</i>	Low	1824
<i>Nassarius succinctus</i>	Nil	1288
<i>Charybdis sp.</i>	Nil	917
<i>Tegillarca nodifera</i>	Low	906
<i>Murex trapa</i>	Nil	872
<i>hermit crab</i>	Nil	856
<i>Tegillarca granosa</i>	Low	856
<i>Johnius belangerii</i>	Low	621
<i>Scapharca subcrenata</i>	Low	264
<i>Oratosquilla oratoria</i>	High	260
<i>Charybdis affinis</i>	Nil	253
<i>Chione isabellina</i>	Nil	230
<i>Oratosquilla interrupta</i>	High	221
<i>Eucrete crenata</i>	Nil	170
<i>Amphibalanus sp.</i>	Nil	146
<i>Acaudina molpadioides</i>	Nil	119
<i>Chelon macrolepis</i>		117
<i>Trypauchen vagina</i>	Low	104
<i>Cynoglossus arel</i>	High	78

2010 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	32264
<i>Scapharca subcrenata</i>	Low	5500
<i>Tegillarca nodifera</i>	Low	4265
<i>Paphia undulata</i>	Low	3244
<i>Nassarius succinctus</i>	Nil	1796
<i>Balanus sp.</i>	Nil	1386
<i>hermit crab</i>	Nil	1374
<i>Murex trapa</i>	Nil	1094
<i>Amphibalanus sp.</i>	Nil	1081
<i>Charybdis sp.</i>	Nil	1055
<i>Macoma candida</i>	Nil	871
<i>Morula mutica</i>	Nil	473
<i>Chione isabellina</i>	Nil	454
<i>Inquistor flavidula</i>	Nil	444
<i>Eucrete crenata</i>	Nil	413
<i>Charybdis affinis</i>	Nil	286
<i>Johnius belangerii</i>	Low	142
<i>Bursa rana</i>	Low	101
<i>Liza ophuyseri</i>	Medium	101
<i>Oratosquilla oratoria</i>	High	100

2011 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	39680
<i>Balanus sp.</i>	Nil	4544
<i>Paphia undulata</i>	Low	2758
<i>Nassarius succinctus</i>	Nil	1424
<i>Venerupis philippinarum</i>	Low	1212
<i>Charybdis sp.</i>	Nil	850
<i>Tegillarca nodifera</i>	Low	817
<i>Scapharca subcrenata</i>	Low	740
<i>Inquistor flavidula</i>	Nil	665
<i>Murex trapa</i>	Nil	608
<i>hermit crab</i>	Nil	508
<i>Chione isabellina</i>	Nil	491
<i>Macoma candida</i>	Nil	394
<i>Turricula javana</i>	Nil	381
<i>Morula mutica</i>	Nil	209
<i>Temnopleurus toreumaticus</i>	Nil	190
<i>Nibea albiflora</i>	High	164
<i>Trypauchen vagina</i>	Low	144
<i>Eucrete crenata</i>	Nil	73
<i>Acaudina molpadioides</i>	Nil	71

2012 Dry		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	55400
<i>Balanus sp.</i>	Nil	8094
<i>Temnopleurus toreumaticus</i>	Nil	1828
<i>Paphia undulata</i>	Low	1754
<i>Inquistor flavidula</i>	Nil	1225
<i>Tegillarca nodifera</i>	Low	1115
<i>Scapharca subcrenata</i>	Low	1024
<i>Nassarius succinctus</i>	Nil	966
<i>hermit crab</i>	Nil	881
<i>Morula mutica</i>	Nil	708
<i>Macoma candida</i>	Nil	621
<i>Charybdis affinis</i>	Nil	549
<i>Murex trapa</i>	Nil	512
<i>Charybdis sp.</i>	Nil	440
<i>Crassostrea sp.</i>	Nil	398
<i>Chione isabellina</i>	Nil	245
<i>Chlamys nobilis</i>	Low	161
<i>Nassarius hepaticus</i>	Nil	136
<i>Venerupis philippinarum</i>	Low	124
<i>Nassarius sp.</i>	Nil	123

2009 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	37580
<i>Anadara ferruginea</i>	Low	25693
<i>Scapharca subcrenata</i>	Low	2958
<i>Paphia undulata</i>	Low	2746
<i>Nassarius succinctus</i>	Nil	1853
<i>Charybdis sp.</i>	Nil	1353
<i>hermit crab</i>	Nil	1046
<i>Murex trapa</i>	Nil	962
<i>Macoma candida</i>	Nil	873
<i>Chione isabellina</i>	Nil	622
<i>Parapenaeopsis tenella</i>	Low	215
<i>Metapenaeus affinis</i>	High	203
<i>Leiofnathus brevisrostris</i>	Medium	172
<i>Fenneropenaeus penicillatus</i>	High	165
<i>Charybdis affinis</i>	Nil	158
<i>Johnius belangerii</i>	Low	146
<i>Eucrete crenata</i>	Nil	133
<i>Amphibalanus sp.</i>	Nil	126
<i>Dorippoides facchino</i>	Nil	126
<i>Trypauchen vagina</i>	Low	107

2010 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	15214
<i>Scapharca subcrenata</i>	Low	4984
<i>Balanus sp.</i>	Nil	3066
<i>Tegillarca nodifera</i>	Low	2669
<i>Nassarius succinctus</i>	Nil	2554
<i>Paphia undulata</i>	Low	1994
<i>Murex trapa</i>	Nil	1786
<i>Charybdis sp.</i>	Nil	1678
<i>hermit crab</i>	Nil	1134
<i>Morula mutica</i>	Nil	800
<i>Leiofnathus brevisrostris</i>	Medium	654
<i>Temnopleurus toreumaticus</i>	Nil	566
<i>Metapenaeus ensis</i>	High	457
<i>Macoma candida</i>	Nil	304
<i>Metapenaeus affinis</i>	High	247
<i>Charybdis affinis</i>	Nil	201
<i>Eucrete crenata</i>	Nil	183
<i>Platycephalus indicus</i>	Medium	183
<i>Inquistor flavidula</i>	Nil	182
<i>Parapenaeopsis tenella</i>	Low	134

2011 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	15222
<i>Paphia undulata</i>	Low	4292
<i>Balanus sp.</i>	Nil	4136
<i>Nassarius succinctus</i>	Nil	3380
<i>Tegillarca nodifera</i>	Low	2296
<i>Macoma candida</i>	Nil	1972
<i>hermit crab</i>	Nil	1569
<i>Morula mutica</i>	Nil	1454
<i>Murex trapa</i>	Nil	1444
<i>Scapharca subcrenata</i>	Low	1348
<i>Charybdis sp.</i>	Nil	1179
<i>Inquistor flavidula</i>	Nil	1038
<i>Temnopleurus toreumaticus</i>	Nil	902
<i>Chione isabellina</i>	Nil	731
<i>Metapenaeus affinis</i>	High	431
<i>Talonostrea talonata</i>	Nil	406
<i>Turricula nelliae</i>	Nil	387
<i>Nassarius sp.</i>	Nil	274
<i>Lophiotoma leucotropis</i>	Nil	243
<i>Nassarius hepaticus</i>	Nil	233

2012 Wet		
Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	68854
<i>Balanus sp.</i>	Nil	4520
<i>Nassarius succinctus</i>	Nil	1970
<i>Charybdis sp.</i>	Nil	1348
<i>Murex trapa</i>	Nil	1198
<i>Inquistor flavidula</i>	Nil	1100
<i>Macoma candida</i>	Nil	1049
<i>Tegillarca nodifera</i>	Low	1029
<i>Scapharca subcrenata</i>	Low	928
<i>hermit crab</i>	Nil	881
<i>Paphia undulata</i>	Low	744
<i>Temnopleurus toreumaticus</i>	Nil	682
<i>Morula mutica</i>	Nil	661
<i>Ostrea sp.</i>	Low	628
<i>Cavernularia habereri</i>	Nil	546
<i>Metapenaeus joyneri</i>	High	381
<i>Leiofnathus brevisrostris</i>	Medium	363
<i>Eucrete crenata</i>	Nil	318
<i>Acaudina molpadioides</i>	Nil	293
<i>Chione isabellina</i>	Nil	266

2013 Dry

Species	Commercial value	Abundance
<i>Turritella terebra</i>	Low	4980
<i>Balanus sp.</i>	Nil	2580
<i>Charybdis sp.</i>	Nil	524
<i>Temnopleurus toreumaticus</i>	Nil	414
<i>Nassarius succinctus</i>	Nil	412
<i>hermit crab</i>	Nil	410
<i>Murex trapa</i>	Nil	342
<i>Tegillarca nodifera</i>	Low	286
<i>Inquistor flavidula</i>	Nil	139
<i>Fenneropenaeus merguensis</i>	High	97
<i>Scapharca subcrenata</i>	Low	90
<i>Morula mutica</i>	Nil	66
<i>Johnius amblycephalus</i>	Low	64
<i>Pseudorhombus oligodon</i>	Medium	42
<i>Valamugil cunnesius</i>	Medium	39
<i>Leiognathus brevisrostris</i>	Medium	36
<i>Solea ovata</i>	Medium	35
<i>Parapenaeopsis tenella</i>	Low	34
<i>Macoma candida</i>	Nil	32

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.

Total yield of different species recorded from 2006 to 2013 in western Lantau water (TS station)

Species Group	Order	Family	Species	Total Yield (g)
Gastropod	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	3436106.6
Crab	Decapoda	Portunidae	<i>Charybdis spp.</i>	218898.5
Bivalve	Arcoida	Arcidae	<i>Anadara sativa</i>	212056.6
Bivalve	Arcoida	Arcidae	<i>Anadara ferruginea</i>	111527.9
Gastropod	Neogastropoda	Muricidae	<i>Murex trapa</i>	106090.9
Bivalve	Veneroida	Veneridae	<i>Paphia undulata</i>	96034.7
Bivalve	Arcoida	Arcidae	<i>Tegillarca nodifera</i>	75415.9
Echinoderm	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	67817.8
Echinoderm	Molpadida	Caudinidae	<i>Acaudina molpadioides</i>	51804.0
Crab			<i>hermit crab</i>	50308.3
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	47342.7
Bivalve	Veneroida	Tellinidae	<i>Macoma candida</i>	45061.0
Gastropod	Neogastropoda	Nassariidae	<i>Nassarius succinctus</i>	35836.2
Bivalve	Pterioida	Pteriidae	<i>Pinctada imbricata</i>	33463.3
Gastropod	Neogastropoda	Muricidae	<i>Morula mutica</i>	26854.5
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	24238.6
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	22763.9
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	20858.3
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	20799.2
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	20685.6
Fish	Perciformes	Sciaenidae	<i>Johnius amblycephalus</i>	19452.7
Bivalve	Veneroida	Veneridae	<i>Chione isabellina</i>	18328.2
Crab	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	18266.2
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	16810.9
Fish	Mugiliformes	Mugilidae	<i>Liza macrolepis</i>	15515.2
Fish	Perciformes	Sciaenidae	<i>Nibea soldado</i>	14850.9
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	14585.6
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus arel</i>	13943.1
Cephalopod	Octopoda	Octopodidae	<i>Octopus sp.</i>	13727.1
Prawn or shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	13674.4
		Others		307363.0
		Total		5190481.8

2006 Dry

Species	Commercial value	Yield (g)
<i>Charybdis affinis</i>	Nil	11440.8
<i>Johnius belangerii</i>	Low	4599.3
<i>Harpisquilla harpax</i>	High	1648.6
<i>Cynoglossus arel</i>	High	1378.2
<i>Parachaeturichthys polynema</i>	Low	1218.6
<i>Oratosquilla interrupta</i>	High	1088.2
<i>Galene bispinosa</i>	Nil	736.3
<i>Alcockpenaeopsis hungerfordi</i>	High	520.2
<i>Ochetostoma erythrogrammoi</i>	Nil	421
<i>Fenneropenaeus merguensis</i>	High	414.4
<i>Trypauchen vagina</i>	Low	373.9
<i>Polydactylus sextarius</i>	Medium	337.4
<i>Solenocera crassicornis</i>	Medium	300.9
<i>Leiognathus brevisrostris</i>	Medium	219
<i>Turritella terebra</i>	Low	204.1
<i>Oxyurichthys tentacularis</i>	Low	190.8
<i>Johnius amblycephalus</i>	Low	187.6
<i>Alephus digitalis</i>	Low	186.7
<i>Heikeopsis japonica</i>	Nil	168.1
<i>Charybdis feriata</i>	High	140.9

2006 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	14129.8
<i>Johnius belangerii</i>	Low	3057.8
<i>Charybdis affinis</i>	Nil	2752.9
<i>Oratosquilla interrupta</i>	High	2201.7
<i>Temnopleurus toreumaticus</i>	Nil	1843.5
<i>Johnius amblycephalus</i>	Low	1827.1
<i>Alcockpenaeopsis hungerfordii</i>	High	1814.8
<i>Leiognathus brevisrostris</i>	Medium	1758.3
<i>Platycephalus indicus</i>	Medium	1479.5
<i>Paphia undulata</i>	Low	1156.8
<i>Murex trapa</i>	Nil	1139.3
<i>Metapenaeus affinis</i>	High	857.2
<i>Fenneropenaeus penicillatus</i>	High	798.7
<i>Cynoglossus arel</i>	High	668.3
<i>Scapharca subcrenata</i>	Low	663.4
<i>Harpisquilla harpax</i>	High	647
<i>hermit crab</i>	Nil	628.7
<i>Ophichthus apicalis</i>	Low	586.5
<i>Galene bispinosa</i>	Nil	573.5
<i>Portunus trituberculatus</i>	High	561.4

2007 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	58231.7
<i>Pinctada imbricata</i>	Nil	22712.3
<i>Temnopleurus toreumaticus</i>	Nil	21213.8
<i>Charybdis affinis</i>	Nil	11759.9
<i>Murex trapa</i>	Nil	6511.4
<i>Charybdis sp.</i>	Nil	5609.6
<i>Anadara ferruginea</i>	Low	5143.6
<i>Johnius belangerii</i>	Low	5111.2
<i>Oratosquilla oratoria</i>	High	3548.1
<i>Liza affinis</i>	Medium	2653.5
<i>Scapharca subcrenata</i>	Low	2578.4
<i>Johnius amblycephalus</i>	Low	1724.6
<i>Fenneropenaeus merguensis</i>	High	1594.7
<i>Paphia undulata</i>	Low	1512.8
<i>hermit crab</i>	Nil	1456.3
<i>Cavernularia habereri</i>	Nil	1209.2
<i>Oratosquilla interrupta</i>	High	1145.7
<i>Polydactylus sextarius</i>	Medium	1074.6
<i>Charybdis feriata</i>	High	867.9
<i>Nassarius succinctus</i>	Nil	857.3

2007 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	86460
<i>Charybdis sp.</i>	Nil	29650
<i>Murex trapa</i>	Nil	16055
<i>Anadara ferruginea</i>	Low	11255.4
<i>Paphia undulata</i>	Low	6876.4
<i>Charybdis variegata</i>	Nil	6424
<i>hermit crab</i>	Nil	4572
<i>Johnius belangerii</i>	Low	4197.3
<i>Fenneropenaeus penicillatus</i>	High	3767.1
<i>Oratosquilla interrupta</i>	High	3095.1
<i>Platycephalus indicus</i>	Medium	2675.6
<i>Johnius amblycephalus</i>	Low	2634.8
<i>Portunus trituberculatus</i>	High	2577.4
<i>Metapenaeus affinis</i>	High	2398.9
<i>Charybdis affinis</i>	Nil	2385.7
<i>Macoma candida</i>	Nil	2293.6
<i>Nassarius succinctus</i>	Nil	1255.3
<i>Leiognathus brevisrostris</i>	Medium	1025
<i>Metapenaeus ensis</i>	High	1019.6
<i>Molpadia roretzii</i>	Nil	944

2008 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	111942
<i>Nibea soldado</i>	High	12594.1
<i>Scapharca subcrenata</i>	Low	9462.6
<i>Pinctada imbricata</i>	Nil	9167.8
<i>Charybdis sp.</i>	Nil	8917.7
<i>Paphia undulata</i>	Low	8098.6
<i>Chelon macrolepis</i>	Low	7675.9
<i>Murex trapa</i>	Nil	5497.6
<i>Temnopleurus toreumaticus</i>	Nil	4468
<i>Charybdis affinis</i>	Nil	3749
<i>hermit crab</i>	Nil	3493.2
<i>Anadara ferruginea</i>	Low	2972.1
<i>Nassarius succinctus</i>	Nil	2613.6
<i>Oratosquilla oratoria</i>	High	2264.6
<i>Acaudina molpadioides</i>	Nil	2189
<i>Johnius belangerii</i>	Low	1726.9
<i>Harpisquilla harpax</i>	High	1283.8
<i>Cynoglossus arel</i>	High	1262.4
<i>Portunus trituberculatus</i>	High	1203.2
<i>Octopus sp.</i>	Low	1119.6

2008 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	213876
<i>Scapharca subcrenata</i>	Low	67968.4
<i>Paphia undulata</i>	Low	24903.4
<i>Acaudina molpadioides</i>	Nil	13144.1
<i>Tegillarca nodifera</i>	Low	10518.2
<i>Murex trapa</i>	Nil	9165.4
<i>Macoma candida</i>	Nil	6387.6
<i>hermit crab</i>	Nil	5431
<i>Charybdis sp.</i>	Nil	5385
<i>Charybdis affinis</i>	Nil	3161.3
<i>Leiognathus brevisrostris</i>	Medium	3136.1
<i>Nassarius succinctus</i>	Nil	3066.7
<i>Fenneropenaeus penicillatus</i>	High	3042.8
<i>Chione isabellina</i>	Nil	2466.8
<i>Metapenaeus ensis</i>	High	2258.6
<i>Cavernularia habereri</i>	Nil	2237.3
<i>Metapenaeus affinis</i>	High	2117.7
<i>Johnius belangerii</i>	Low	1606.3
<i>Johnius amblycephalus</i>	Low	1347.9
<i>Sillago sihama</i>	High	1259.4

2009 Dry

2009 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	343770
<i>Johnius belangerii</i>	Low	17206.9
<i>Paphia undulata</i>	Low	10658
<i>Scapharca subcrenata</i>	Low	8648
<i>Charybdis sp.</i>	Nil	6851
<i>Charybdis affinis</i>	Nil	6552.7
<i>Murex trapa</i>	Nil	5241.5
<i>Oratosquilla oratoria</i>	High	5153.4
<i>Tegillarca granosa</i>	Low	4839
<i>Octopus sp.</i>	Low	4210.4
<i>Tegillarca nodifera</i>	Low	4013
<i>Chelon macrolepis</i>	Low	3877.6
<i>Oratosquilla interrupta</i>	High	3820
<i>hermit crab</i>	Nil	3135
<i>Acaudina molpadioides</i>	Nil	2719.3
<i>Eucrete crenata</i>	Nil	2076
<i>Pennahia pawak</i>	Low	1649.1
<i>Nassarius succinctus</i>	Nil	1622.7
<i>Johnius amblycephalus</i>	Low	1564.7
<i>Cynoglossus arel</i>	High	1404.8

2010 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	287822
<i>Scapharca subcrenata</i>	Low	126232
<i>Paphia undulata</i>	Low	22364
<i>Tegillarca nodifera</i>	Low	20412
<i>Charybdis sp.</i>	Nil	10295
<i>Charybdis affinis</i>	Nil	8355
<i>Murex trapa</i>	Nil	6900
<i>Macoma candida</i>	Nil	4669.5
<i>hermit crab</i>	Nil	4310
<i>Octopus sp.</i>	Low	3965
<i>Johnius belangerii</i>	Low	3855
<i>Acaudina molpadioides</i>	Nil	3837.1
<i>Nassarius succinctus</i>	Nil	3698
<i>Jelly fish</i>	Nil	3562
<i>Liza ophuyseni</i>	Medium	3513
<i>Eucrete crenata</i>	Nil	3310
<i>Oratosquilla oratoria</i>	High	2305
<i>Morula mutica</i>	Nil	2196.1
<i>Chione isabellina</i>	Nil	2018.4
<i>Charybdis feriata</i>	High	1745

2011 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	439460
<i>Scapharca subcrenata</i>	Low	21940
<i>Paphia undulata</i>	Low	19246
<i>Charybdis sp.</i>	Nil	11593
<i>Venerupis philippinarum</i>	Low	5449
<i>Nibea albiflora</i>	High	4716
<i>Murex trapa</i>	Nil	4092
<i>Tegillarca nodifera</i>	Low	3717
<i>Nassarius succinctus</i>	Nil	2776
<i>Chione isabellina</i>	Nil	2619.3
<i>Macoma candida</i>	Nil	2377
<i>Trypauchen vagina</i>	Low	2270
<i>hermit crab</i>	Nil	1955
<i>Acaudina molpadioides</i>	Nil	1693
<i>Balanus sp.</i>	Nil	1589
<i>Temnopleurus toreumaticus</i>	Nil	1552.6
<i>Charybdis affinis</i>	Nil	1490
<i>Johnius amblycephalus</i>	Low	1368
<i>Cynoglossus arel</i>	High	1172
<i>Jelly fish</i>	Nil	1170

2012 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	526320
<i>Temnopleurus toreumaticus</i>	Nil	13888
<i>Paphia undulata</i>	Low	12420
<i>Scapharca subcrenata</i>	Low	11047
<i>Charybdis affinis</i>	Nil	6706
<i>Tegillarca nodifera</i>	Low	6694.8
<i>Charybdis sp.</i>	Nil	5718
<i>Morula mutica</i>	Nil	4161
<i>Murex trapa</i>	Nil	4156.2
<i>Macoma candida</i>	Nil	4069.3
<i>Balanus sp.</i>	Nil	3683
<i>hermit crab</i>	Nil	3004
<i>Inquistor flavidula</i>	Nil	2795
<i>Charybdis feriata</i>	High	2006
<i>Nassarius succinctus</i>	Nil	1990
<i>Harpisquilla harpax</i>	High	1947
<i>Trichotropis sp.</i>	Nil	1881
<i>Crassostrea sp.</i>	Nil	1711
<i>Acaudina molpadioides</i>	Nil	1448.5
<i>Chione isabellina</i>	Nil	1386.4

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	292511
<i>Anadara ferruginea</i>	Low	91686
<i>Scapharca subcrenata</i>	Low	41303.4
<i>Paphia undulata</i>	Low	17470
<i>Charybdis sp.</i>	Nil	9309
<i>Murex trapa</i>	Nil	6323
<i>Macoma candida</i>	Nil	4904
<i>Portunus pelagicus</i>	High	3870
<i>hermit crab</i>	Nil	3835
<i>Johnius belangerii</i>	Low	3200
<i>Charybdis affinis</i>	Nil	3065
<i>Chione isabellina</i>	Nil	2645.8
<i>Nassarius succinctus</i>	Nil	2285
<i>Fenneropenaeus penicillatus</i>	High	2115
<i>Metapenaeus affinis</i>	High	2000
<i>Platycephalus indicus</i>	Medium	1870
<i>Leiognathus brevisrostris</i>	Medium	1738
<i>Oratosquilla interrupta</i>	High	1660
<i>Trypauchen vagina</i>	Low	1660
<i>Portunus sanguinolentus</i>	High	1500

2010 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	147110
<i>Scapharca subcrenata</i>	Low	52136
<i>Murex trapa</i>	Nil	18921
<i>Paphia undulata</i>	Low	14258.6
<i>Charybdis sp.</i>	Nil	13492
<i>Tegillarca nodifera</i>	Low	12370
<i>Leiognathus brevisrostris</i>	Medium	6805
<i>Temnopleurus toreumaticus</i>	Nil	5765.1
<i>Morula mutica</i>	Nil	5533.2
<i>Platycephalus indicus</i>	Medium	4935
<i>hermit crab</i>	Nil	4603
<i>Charybdis affinis</i>	Nil	4350
<i>Metapenaeus ensis</i>	High	4286
<i>Nassarius succinctus</i>	Nil	3500
<i>Oratosquilla interrupta</i>	High	2740
<i>Portunus trituberculatus</i>	High	2320
<i>Trypauchen vagina</i>	Low	1980
<i>Johnius belangerii</i>	Low	1930
<i>Portunus sanguinolentus</i>	High	1910
<i>Metapenaeus affinis</i>	High	1785

2011 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	144850
<i>Scapharca subcrenata</i>	Low	35633.2
<i>Paphia undulata</i>	Low	23472
<i>Portunus trituberculatus</i>	High	19622
<i>Macoma candida</i>	Nil	10832
<i>Charybdis sp.</i>	Nil	10762
<i>Tegillarca nodifera</i>	Low	10687
<i>Murex trapa</i>	Nil	9918
<i>Morula mutica</i>	Nil	8672
<i>Temnopleurus toreumaticus</i>	Nil	7020
<i>Nassarius succinctus</i>	Nil	6814
<i>hermit crab</i>	Nil	6799
<i>Acaudina molpadioides</i>	Nil	5713.3
<i>Chione isabellina</i>	Nil	3507
<i>Metapenaeus affinis</i>	High	3058
<i>Trypauchen vagina</i>	Low	2686
<i>Nibea albiflora</i>	High	2178
<i>Inquistor flavidula</i>	Nil	2107.1
<i>Balanus sp.</i>	Nil	1951
<i>Metapenaeus ensis</i>	High	1924

2012 Wet

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	475610
<i>Scapharca subcrenata</i>	Low	43890
<i>Acaudina molpadioides</i>	Nil	17549
<i>Charybdis sp.</i>	Nil	10359
<i>Portunus trituberculatus</i>	High	9232
<i>Murex trapa</i>	Nil	9129
<i>Macoma candida</i>	Nil	6506
<i>Temnopleurus toreumaticus</i>	Nil	5595.5
<i>Tegillarca nodifera</i>	Low	5214
<i>Paphia undulata</i>	Low	4964
<i>Leiognathus brevisrostris</i>	Medium	4210
<i>Nassarius succinctus</i>	Nil	3896
<i>Morula mutica</i>	Nil	3846.6
<i>hermit crab</i>	Nil	3580
<i>Cavernularia habererii</i>	Nil	2538.4
<i>Inquistor flavidula</i>	Nil	2475.6
<i>Trypauchen vagina</i>	Low	2175
<i>Balanus sp.</i>	Nil	2137.2
<i>Metapenaeus joyneri</i>	High	2066
<i>Metapenaeus ensis</i>	High	2038

2013 Dry

Species	Commercial value	Yield (g)
<i>Turritella terebra</i>	Low	46680
<i>Charybdis sp.</i>	Nil	4697
<i>Fenneropenaeus merguensis</i>	High	4672
<i>Temnopleurus toreumaticus</i>	Nil	3382
<i>Murex trapa</i>	Nil	2732
<i>Scapharca subcrenata</i>	Low	1952
<i>Platycephalus indicus</i>	Medium	1666
<i>Valamugil cunnesius</i>	Medium	1620
<i>Tegillarca nodifera</i>	Low	1457.4
<i>hermit crab</i>	Nil	1436
<i>Balanus sp.</i>	Nil	1245
<i>Johnius amblycephalus</i>	Low	1210
<i>Acaudina molpadioides</i>	Nil	1194
<i>Nassarius succinctus</i>	Nil	927
<i>Charybdis feriata</i>	High	812
<i>Acentrogobius caninus</i>	Low	704
<i>Oratosquilla oratoria</i>	High	616
<i>Octopus sp.</i>	Low	616
<i>Crassostrea sp.</i>	Nil	540
<i>Enoplolambrus validus</i>	Nil	498.4

Source of raw data: CEDD Contaminated Mud Pit EM&A data 2006-2013.