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Ship Waste Management Manual Bangkok Port

Third Revised Edition (2022)

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Abbreviation

PAT	Port Authority of Thailand
BKP	Bangkok Port
ES	Environmental Section (Safety, Health and Environmental Division)
IMO	International Maritime Organization
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships
SF	Sanitary Fee
SWMM	Ship Waste Management Manual
WDR	Waste Delivery Receipt
WHS	Waste Handling System
WNF	Waste Notification Form

01

Introduction

Background

To comply with the following International Regulations and National Legislations of the Kingdom of Thailand:

- The International Convention for the Prevention of Pollution from Ship– MARPOL 73/78
- Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Bilge Water, Oily Waste, Contaminated Water and Chemical Waste, B.E. 2558
- Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Garbage and Solid Waste, B.E. 2560
- Marine Department Notice NO. 137/B.E. 2564 Determination on Berth to Provide Reception Facilities
- Port Authority of Thailand (PAT) Notice on the Management of Waste from Ships in Bangkok Port B.E. 2565

Port Authority of Thailand (PAT) has prepared a Ship Waste Management Manual (SWMM), which describes in detail all aspects of the waste handling and collection system from vessels calling the port.

This manual is mandatory for all vessels and its crew calling at BKP, ship agents, waste contractors and other service providers, which are stakeholders in the management of ships' waste in BKP.

The Environmental Section (ES) , under the Safety, Health and Environmental (SHE) Division of BKP, has been appointed to take overall responsibility for the coordination of ship waste handling in BKP in cooperation with other relevant divisions and departments. The relevant functions to be carried out for ship waste handling shall comply with the requirements of the SWMM.

As required, ES has prepared relevant changes and updates to the SWMM and will place this on the PAT website www.port.co.th ("service">>"Ship Waste Management") and publish to relevant stakeholders.

Definitions and Explanations

Additional charge, a special port fee, which shall finance costs for providing services for waste collection from ships if the waste exceeds the waste volume covered by the SF or if type of ship generated waste is not included in the list of wastes covered

Bilge water, oily water accumulated mainly in the bilge well of ships' machinery space

Cargo residues, the remnants of any cargo material on board in cargo holds or tanks which remain subsequent to unloading procedures and cleaning operations

Collection of waste, activities associated with the receiving/disposal, accumulation and placement of waste in designated areas or objects, including sorting of waste to recycle and/or to final destinations

Discharging of waste from ships, actions to transfer ship generated waste to port reception facilities

Fishing vessel, any ship equipped or used commercially for catching fish or other living resources of the river/coast/sea

Garbage, waste stored on board in garbage bins or plastic bags e.g. plastic, glass, paper, aluminum cans, ash, food waste, etc.

Hazardous waste, any harmful substance, which have such physical, chemical, biological or other dangerous properties, which can create or may create substantial risks to the environment and human health

Liquid oily waste, any fluid mixture of oil residues with water and mechanical impurities which were formed during vessel operations, eg. Bilge water, waste lubricating oil, oil residues from the fuel purification, water from the slop tanks, etc.

Oily residues (sludge), waste lubricating oil, oil residues and water from fuel/oil purification, oily water from fuel/oil slop tanks, etc.

Penalty fee (fine), payment applied for all categories for non-conformities to the SWMM

Port, location on a coast or shore containing one or more harbors where ships can dock and transfer people or cargo to or from land

Port reception facilities, any facility, which is fixed, floating or mobile and capable of receiving ship-generated waste or cargo residues that can accumulate in vessels during their operation

Recycling of waste, using of waste as secondary material and/or energy resources

Sanitary fee, a special port fee or part of, which shall finance the total cost of ship waste handling (collection, treatment and final disposal). The fee is paid regardless of waste delivery

Sewage, black and grey water:

- drainage and other wastes from any types of toilets, urinals, water closets, WC scuppers;
- drainage from medical premises (dispensary, sick bay, etc.) via wash basins, wash tubes and scuppers located in such premises;
- drainage from spaces containing living animals;
- drainage from bathrooms, laundries, galleys and other wastes when mixed with the drainages defined above.

Small vessels (ships), ships under 200 Gross Tonnage (GT) with the exception of tankers and vessels carrying chemicals

Solid oily waste, any non-fluidity oily wastes, which were formed during the operation of the vessel or from oil spills (oil sludge from the cleaning of fuel and oil tanks, oily rags, sand, sawdust, oil and fuel filters, etc.)

Ship, a seagoing vessel of any type operating in the marine environment and shall include hydrofoil boats, air-cushion vehicles, submersibles and floating craft

Ship-generated waste, all waste, including sewage, and residues other than cargo residues, which are generated during the service of a ship and fall under the scope of Annexes I, IV and V of MARPOL 73/78. Most often defined as Sewage, Garbage and Oily Waste from machinery space.

Waste contractor/operator, company or organization which performs waste collection and other sanitary services in accordance with the existing agreements

Waste Management, actions aimed at waste minimization, collection, transportation, storage, treatment, recycling and final disposal (e.g. incineration and landfill)

Important Notes

- This SWMM concerns the territory and area of BKP (See Annex I)
- In accordance with BKP requirements, the delivery (discharging and disposal) of ship generated waste is mandatory if:
 - Volume of waste exceeds 50% of storage capacity on board
 - Next port of call is unknown
 - Volume of the ships' storage tanks are not sufficient for accumulation of waste during the voyage to the next port of call
- The Waste Notification Form (WNF) shall be filled out by the ship/shipping agent via Ship Waste Notification Management System of the Bangkok Port. After waste discharge the waste operator shall specify the actual quantity of the waste disposed and leave a receipt copy for the ship captain. For more detailed description please refer to Section 5
- Disposal of waste from ships is available according to the below schedule:
 - Garbage collection:
 - At berths within the port area, every day (8.30 a.m. – 4.30 p.m.) except Labor Day (1st May)
 - At dolphins, Monday to Friday (8.30 a.m. – 4.30 p.m.)
 - Hazardous waste collection:
 - At berths within the port area, every day (8.30 a.m. – 4.30 p.m.) except Labor Day (1st May)
 - At dolphins, Monday to Friday (8.30 a.m. – 4.30 p.m.)
 - Oily waste collection:
 - At berths and dolphins, every day. Ship or ship agent coordinate with waste contractors directly.
 - Sewage collection:
 - At berths and dolphins, every day. Ship or ship agent coordinate with waste contractors directly.
- Under PAT regulations, for the calculation of sanitary dues (SF) and other charges/fees, the following shall apply:
 - Ships calling BKP with more than 750 Gross Tons shall pay a SF regardless of waste delivery
 - Ship with less than 750 Gross Tons, wish to dispose garbage, shall pay SF accordingly

02

Contact Information-Organizations Involved in Ship Waste management

Bangkok Port, Sections

Environmental Section	wnms.bkp@gmail.com	0 2269 3760 0 2269 3701 0 2269 3909
Stevedoring and Control Section	stevedore51@gmail.com	0 2269 3412 0 2269 3381
Craft Section	tugservices@gmail.com	0 2269 3479 0 2269 3485 0 2671 8804
Sanitary Section	papa3638.port@gmail.com	0 2269 3360 0 2269 3159 0 2269 3638

Waste Contractors

Tupthong Engineering and Recycle Co., Ltd.	kataeandnavy@gmail.com	0 63412 6673 0 91561 9594
AK Oil Supply Co., Ltd.	tarnkatay@gmail.com	0 2813 8991 0 63810 0642
V B Marketing Group CO., Ltd.	vb_marketinggroup@hotmail.com	0 3444 8623 0 82333 3142 0 95151 5592
D.D.P Siam Service Ltd., Part.	cookiecreamini@hotmail.com gade_147@hotmail.com	0 85366 5656
En-Technology Consultant Co., Ltd.	parichat@en-technology.com	0 8058 98913
Siam Rajathanee Co., Ltd.	info@en-technology.com info@Siamrajathanee.com	0 2743 5550-2
SSC OIL Co., Ltd.	ssc_oil@hotmail.com sscoil002@gmail.com numattapon9@gmail.com	0 82215 0550 0 86367 1177 0 64852 8616
Suvarnabhumi Waste Recovery Co., Ltd.	swr2008@hotmail.com	0 2240 4067

Ships Agents

APL Agencies (Thailand) Co., Ltd	thd.dnakdee@cma-cgm.com	0 2681 5000 ext. 7103 08 4439 3129
Bright Maritime Co., Ltd.	krisada.khan@gmail.com	08 7994 6817
Ben Line Agencies (Thailand) Ltd.	patops@benline.co.th	02 269 3755 08 1623 6631 08 2491 7447
Marine Connections Co., Ltd.		
CK Line (Thailand) Co., Ltd.	portbkk@ckline.co.th opsbkk@ckline.co.th eak@ckline.co.th	0 2681 8711
Maersk Line (Thailand) Co., Ltd.	nvzchaiyan@gmail.com	08 1804 3568
Interasia Lines (Thailand) Co., Ltd.		
CMA CGM (Thailand) Ltd.	thd.dnakdee@cma-cgm.com thd.ops-pat@cma-cgm.com	0 2350 2420 0 2350 2082 08 1905 3059
COSCO SHIPPING Lines (Thailand) Co., Ltd	warapot_pat@hotmail.com	08 1550 6052 0 2249 3419
Dong Jin Electronics Co., Ltd.	rotjana@pcla.co.th korakot@pcla.co.th	08 1899 7754 08 5138 5886
D&S Co., Ltd.		0 2688 3829 0 2688 3846-7
Eastern Maritime (Thailand) Ltd.	somboon@bkk.pilship.com eml_pat@eml.co.th	0 2240 0110 ext. 420
Evergreen Shipping Agency (Thailand) Co., Ltd.		0 2229 9999 ext. 6315-6316-6321
Gulf Agency Company (Thailand) Co., Ltd.	chanon.booranasinlap@gac.com prasith.chongudomsub@gac.com shipping.thailand@gac.com	02-6507400
Heung-A Shipping (Thailand) Co.,Ltd.	oprpat@heung-a.co.th	09 5823 1559 0 2671 6977
Hyundai Merchant Merine (Thailand) Co., Ltd.	thsuh@hmm21.com thone@hmm21.com (manager)	0 2661 4488
ITL Services and Logistics Co., Ltd.	santi@itlthai.com kchaiwat@thaishipping.co.th	08 1828 8248 0 2240 2090-2
J Shipping Service Co., Ltd.	j.shipping@yahoo.com	0 2261 6399 08 1807 1448
K Line (Thailand) Ltd.	raphata@th.kline.com	08 6382 4490 0 2625 0253

Ships Agents

Nam Yuen Yong Shopping Co., Ltd.	nyy@namyuenyong.com teerasak@namyuenyong.com	0 2679 9808
Ngow Hock Co., Ltd	seree@rclgroup.com admin@ngowhock.co.th kritsana@ngowhock.co.th	0 2296 1571 08 1818 8965
Ocean Network Express (Thailand) Ltd.	nvzchaiyan@gmail.com	08 1804 3568
OOCL (Thailand) Co., Ltd.	tonyhome27@gmail.com	06 3262 5665
Panamax Limited	mail@panamax.co.th	0 2237 9194-5
Prime Shipping Co., Ltd.	sukitpsc@gmail.com pscship@samarts.com primebkk@ksc.th.com operationpsc@gmail.com	0 2249 8572-4
RCL Feeder Pte. Ltd.	suwat@rclgroup.com phanomporn@rclgroup.com	
SAB Agencies & Transport Co., Ltd.	anant@sabagencies.com topperoyo@gmail.com	08 1645 2137
Samudera Shipping Lines Co., Ltd.	ops.bkk@samudera.id Apichart.kon@samudera.id	0 2249 3965 0 2269 3372 08 5066 0648
Sata Shipping Co., Ltd.	satshpco@ksc.th.com pingsmith40912@gmail.com	02 2400666-70 08 1910 6185
Sea-Chart (Thailand) Co., Ltd.	chethawit@gmail.com	0 2688 3846-47 08 3008 2588
Sea Horse Maritime Co.,Ltd.	agency@sh-maritime.com paisan@sh-maritime.com	0 2024 9418-9
Sealite Shipping Co., Ltd.	Charnvich@sealite.co.th Pavarit@sealite.co.th ops@sealite.co.th	0 2697 4510 09 4856 5557 09 5949 5832 08 9651 5531
SITC Container Lines (Thailand) Co.,Ltd.	portoffice_bkk@sitcthai.com	0 2204 6700
KMTC (Thailand) Ltd.	sumalee@kmtc.co.th	0 2697 4512
TCC Logistics Co., Ltd.		
Siam ECL Co., Ltd.	supanat@siamecl.com eclbkk@siamecl.com thunrit@siamecl.com	0 2677 4401-8 08 4361 8177 09 6926 5494
Sinokor Merchant Marine (Thailand) Co., Ltd.	skrtpat@sinokor.co.th natee@sinokor.co.th	0 2240 1698 08 1923 7099

Ships Agents

S5 ASIA Ltd.	pa.thailand@s-5.org sarawut.heanchasee@s-5.org	08 8854 4022 08 7707 3845
SEA TRIUMPH MARITIME Co., Ltd.	seatrump.bkkpat@gmail.com	08 9440 0750
Thai Copex International Co., Ltd.	operation@thaicopex.com	0 2559 0662-4
Thai Petra Transport Co., Ltd.	agency@thaipetratransport.com	0 2294 2905-6
Thai Shipping Agencies & Trading Co., Ltd.	kchaiwat@thaishipping.co.th	0 2249 9565 ext. 2129 08 1828 8248
Triple I Maritime Agencies Co., Ltd.	pongthorn@iii-maritime.com krisada.khan@gmail.com	0 2681 8988
TSL NAXCO (Thailand) Co., Ltd.	tanin_t@tsl-naxco.com OPS_CRU@tsl-naxco.com support@tsl-naxco.com	0 2022 0500 ext. 1004
T.S. Container Lines (Thailand) Co.,Ltd.	anant@sabagencies.com	08 1645 2137
Wan Hai Lines (Thailand) Co., Ltd.	pornphot@wanhai.com pornphot2521@gmail.com	0 2240 1019 08 9058 8475
Wongsamut Ocean Shipping Co., Ltd.	wos.group2017@gmail.com	0 2223 0516-9
Yang Ming Line (Thailand) Co., Ltd.	kitisak_k@wls.co.th	0 2 770 9668 ext. 803 08 5482 7992
Zim (Thailand) Co., Ltd.	OPS@th.zim.com Tuenweradej.Somchai@th.zim.com Pukan.Nopporn@th.zim.com	0 2494 3735 0 2494 3738

03

Outline Description of the Waste Collection System –

Waste Collection

Waste from ships calling to Bangkok Port can be collected from these areas:

- At berths
- At dolphins

Berths in the port:

Garbage — Garbage is collected by waste operators by truck. The garbage must be segregated by the ships' crew and put in clear plastic bags according to the requirements of ES (see Section 4). The segregated garbage is taken to an appointed temporary storage area within BKP before being taken to the municipal landfill.

Hazardous waste — Hazardous waste is collected by hazardous waste operators. Hazardous waste must be segregated by the ships' crew and put in proper packaging. Hazardous waste will be taken by the hazardous waste disposal operators registered with Marine Department.

Oily waste — All oily wastes from machinery spaces except ballast and washroom water are collected by truck. Trucks will go alongside and the ship shall pump oily waste to the truck. The oily waste will be transferred to the third parties at the port for further processing.

Sewage — Sewage waste is collected by sewage operators. Sewage will be taken by sewage disposal company registered with Marine Department.

*Note: Waste operator of every type of waste must register with Marine Department and Check information at www.md.go.th

Dolphins

Garbage — Ships (from craft section) are taken to pick up garbage from the ships at dolphins. The garbage must be segregated by the ships' crew and put in clear plastic bags according to the requirements of ES (see Section 4). The segregated garbage is taken to an appointed temporary storage area within BKP before being taken to the municipal landfill.

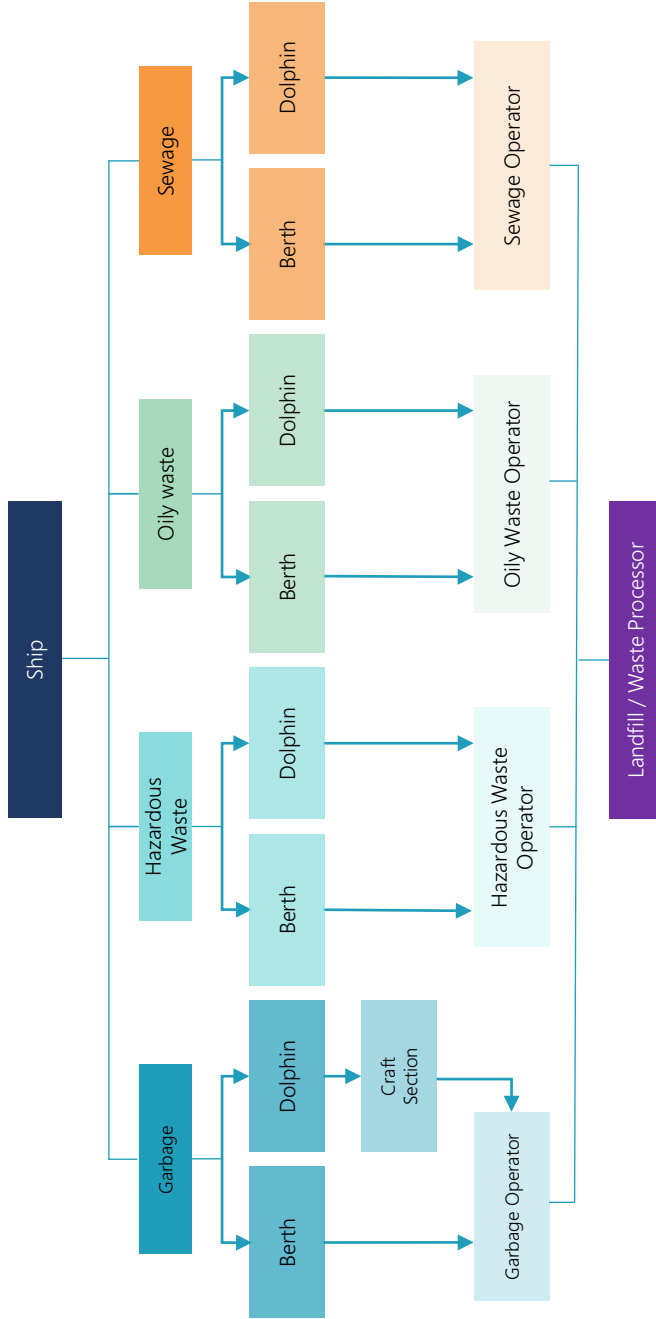
Hazardous waste — Hazardous waste is collected by hazardous waste operators. Hazardous waste must be segregated by the ships' crew and put in proper packaging. Hazardous waste will be taken by the hazardous waste disposal operators registered with Marine Department.

Oily waste — All oily wastes from machinery spaces except ballast and washroom water are collected by barge. Barges will go alongside and the ship shall pump oily waste to the barge. The oily waste will be unloaded to third parties at the port for further processing.

Sewage — Sewage waste is collected by sewage operators. Sewage will be taken to sewage disposal company registered with Marine Department.

*Note: Waste operator of every type of waste must register with Marine Department and Check information at www.md.go.th

Ship Waste Collection Flow in Bangkok Port



Payment System

The ships discharging waste shall pay a Sanitary Fee through their agents to the PAT Finance and Accounting Department for the collection of waste.

All ship calling BKP, with more than 750 Gross Tonnage shall pay a SF, regardless of any waste discharge.

The PAT Finance and Accounting Department will reimburse appointed garbage waste contractors according to Agreements (Contracts).

Payments for hazardous waste, sewage or oily waste collection take place directly in communication between the shipping agent and the oily waste collector.

Flow of Payment System



Waste Notification System and Data Registration

All ships entering the port shall act through their local agent, and in advance inform the ES of all types and volume of wastes which they plan to deliver to the port. This shall be done using the standard Waste Notification Form (WNF) into the Ship Waste Notification Management System that can be accessed through the One stop e-Port service of Port Authority of Thailand **not later than 24 hours before ship's arrival**. This mandatory even if no waste is to be discharged.

If this deadline is not possible, the information must be provided immediately after the departure of the vessel from the previous port, and the ship's agent should appropriately speed up the process and transmit information to ES without delay.

The captain of the ship and the ship's agent are responsible for the accuracy of the information provided in WNF.

If the vessel requires additional waste discharge due to a prolonged stay in the port or for any other reasons, a new and revised WNF must be submitted into the Ship Waste Notification Management System again.

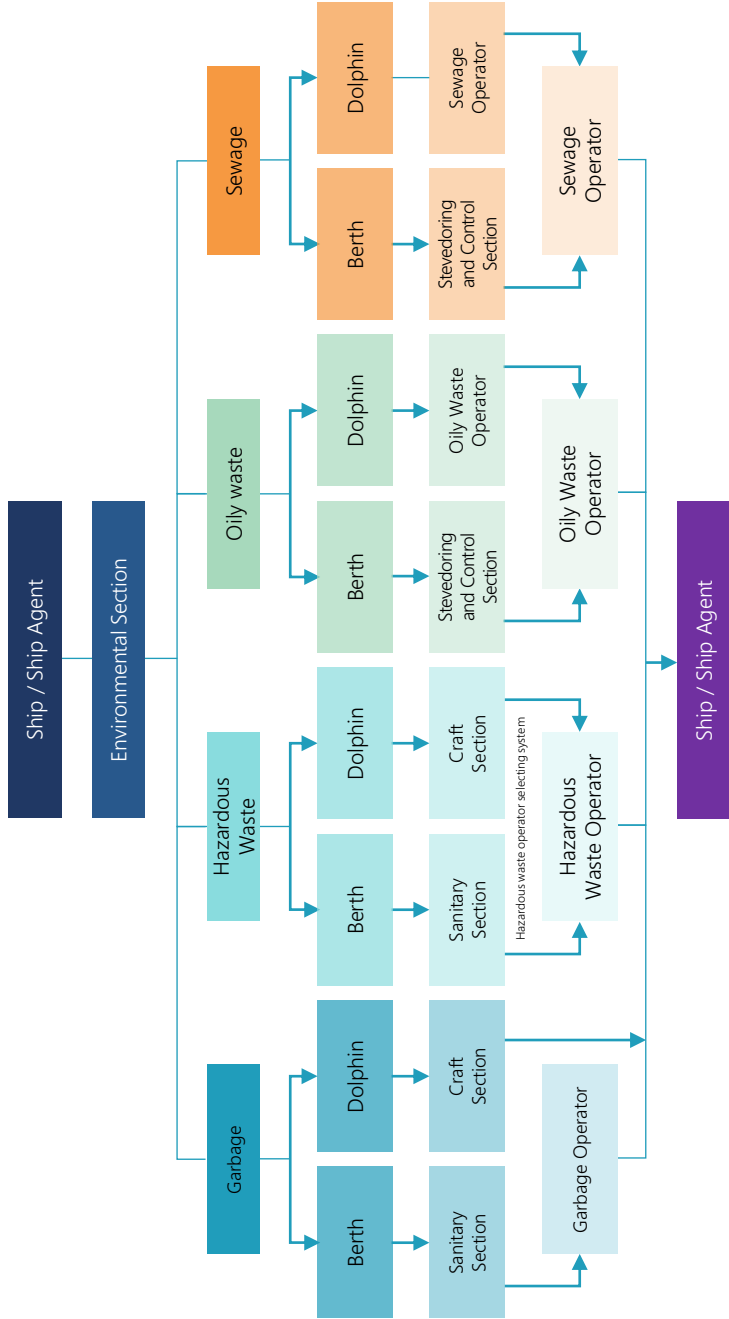
The ES shall receive the WNF submitted by the ship or agent, analyze it and inform the contracted licensed waste operators to proceed.

The waste operator agrees with the ship master or the agent the time and place for discharge of the waste. After the work has been done, the waste operator and ship master jointly complete the last column on the WNF describing the waste types and volume actually discharged and sign.

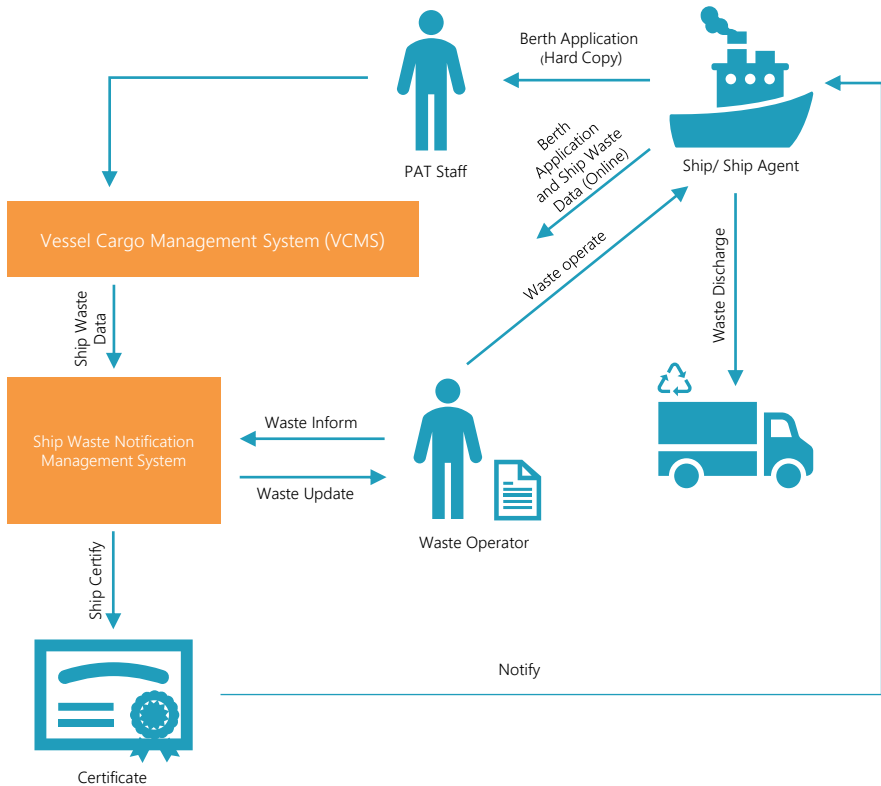
The ship captain can then use this as a garbage certificate of his waste disposal at BKP which can be downloaded from the Ship Waste Management System.

Oily waste operator and sewage operator must submit Uniform Hazardous Waste Manifest to ES (wnms.bkp@gmail.com) every time after waste disposal operation.

Flow of Ship Waste Notification Forms Delivery Receipts



The Ship Waste Notification Management System is a ship waste data record or a ship waste management activity system which has been designed as a web application.




The Ship Waste Notification Management System:

1. User (ship agent) can access the Ship Waste Notification Management System via Web Browser on Personal Computer Desktop, Laptop, and Smart Phone to input and browse the information as well as request for the ship's waste management certificate.
2. The system permissions of user will be verified. After the verification, users will be able to access the data entry window, retrieve data and print reports according to the permissions applicable to each section and data.
3. All input data will be collected and stored in the Ship Waste Notification Management System database.

Using of the Ship Waste Notification Management System

Enter the ship waste management system via One Stop e-Port Service from URL <http://www.port.co.th> as following step:



ท่าเรือแห่งประเทศไทย
PORT AUTHORITY OF THAILAND

Please Enter User ID And Password

User Id

Password

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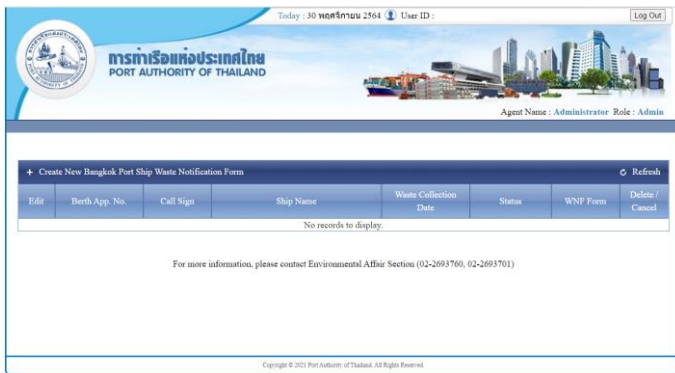
Compatible internet browser for the ship waste management system URL <http://www.port.co.th> and click One Stop e-Port Service button to login

- For Desktop or Notebook: Google Chrome, Firefox or Microsoft Edge
- For Table or Smartphone: Google Chrome or Safari

Please register to receive the username and password to access the One Stop e-Port Service by clicking Register button.



Click **Waste Notification Management System** to enter the system



This page shows Ship Waste Notification Form for ship agent

How to create the ship waste notification form



Click **+ Create New Bangkok Port Ship Waste Notification Form**

แบบแจ้งข้อมูลของเสียจากเรือของท่าเรือกรุงเทพ / Bangkok Port Ship Waste Notification Form

Please, search your berth application:

[\[If don't have berth application number, please click here\]](#)

Search for Berth Application Number of the Ship. Click [\[If don't have berth application number, please click here\]](#), if don't have berth application number. Then fill out the Ship Waste Notification Form.

แบบแจ้งข้อมูลของเสียจากเรือของท่าเรือ
Ship Waste Notification Form

Berth App. No. *	ชื่อตัวแทนเรือ / Shipping Agent Name *	
<input type="text"/>	<input type="text"/>	
ชื่อผู้ส่งมอบของเสีย / Sender Name *	ท่าเรือ / Port *	
<input type="text"/>	<input type="text"/>	
ชื่อเรือ / Ship Name *	สัญญาณเรียกขาน / Call Sign *	เลข IMO / IMO Number *
<input type="text"/>	<input type="text"/>	<input type="text"/>
รัฐเจ้าของธงและท่าเรือที่ขึ้นทะเบียน / Flag state and Port of registry of the ship *		ขนาดสินค้าเรือ / Gross Tonnage
<input type="text"/>		<input type="text"/>

จดหมายอิเล็กทรอนิกส์ / E-mail address *	โทรสาร / Fax number	โทรศัพท์ / Phone number *
<input type="text"/>	<input type="text"/>	<input type="text"/>
เวลาที่เรือมาถึงท่าเรือ* Estimated time of arrival (ETA)	เวลาที่เรือออกจากท่าเรือ* Estimated time of departure (ETD)	จำนวนลูกเรือ / Number of crew
<input type="text" value="d.MMM/yyyy HH:mm"/>	<input type="text" value="d.MMM/yyyy HH:mm"/>	<input type="text"/>
ท่าเรือหลังสุดที่เข้าเทียบท่า Last port of call	ท่าเรือต่อไปที่จะเทียบท่า Next port of call	
<input type="text"/>	<input type="text"/>	
สถานที่กำจัดของเสียของเรือ/บนของเสีย *	วันที่และเวลา *	
<input type="text"/>	<input type="text" value="d.MMM/yyyy HH:mm"/>	

กรุณาระบุปริมาณของเสียที่คาดการณ์ค่าต่อ 1 กลุ่ม ของเสีย (กลุ่มของเสีย เช่น ของเสียน้ำมัน น้ำเสีย ฯลฯ)
Please specify the quantity of waste to be discharged, 1 group of waste per 1 form. (group of waste such as liquid oily waste, sewage, garbage)

ประเภทของเสีย / Waste Type	ปริมาณของเสียที่คาดการณ์ที่ท่าเรือสูงสุดที่เข้าเทียบท่า / Quantity of waste discharged at last port of call optional	ปริมาณของเสียที่เก็บกักบนเรือ / Waste storage capacity Optional	ปริมาณของเสียที่คาดการณ์ที่จะเข้าเทียบท่า / Quantity of waste to be discharged at Port Mandatory
ของเสียน้ำมัน / Liquid oily waste from ship machinery space			
น้ำทิ้งเรือบนน้ำมัน / Bilge Water	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
กากตะกอนน้ำมัน / Oil residues (sludge)	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
เลือกบริษัทรับกำจัดของเสีย / Choose Waste Contractor: <input type="text"/>			
น้ำเสีย / Sewage			
น้ำเสีย / Sewage	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
เลือกบริษัทรับกำจัดของเสีย / Choose Waste Contractor: <input type="text"/>			
ขยะ / Garbage (under Sanitary Fee)			
ขยะรีไซเคิล (ขวดพลาสติก กระดาษ แก้ว โลหะ) / Recycle waste (plastic bottles, paper, glass, metal)	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
ขยะทั่วไป / Flammable damage	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
ขยะย่อยสลาย (เศษอาหาร) / Compostable waste (food waste)	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
อื่นๆ ยกเว้นขยะอันตราย / Other non-hazardous	<input type="text"/> (m ³)	<input type="text"/> (m ³)	<input type="text"/> (m ³)
ของเสียน้ำมันที่เกิดจากถังสินค้า / Oily Cargo Residue			
น้ำมันสกปรก / Dirty ballast	<input type="text"/> (m ³)	<input type="text"/> (m ³)	NOT ACCEPTED (m ³)
น้ำจากภาชนะล้าง / Cleaning Water	<input type="text"/> (m ³)	<input type="text"/> (m ³)	NOT ACCEPTED (m ³)
ของเสียอันตราย / Hazardous Waste			
ของแข็งไม่ติดไฟ / Solid oily waste	<input type="text"/> (kg)	<input type="text"/> (kg)	<input type="text"/> (kg)
ของติดเชื้อ / Medical waste	<input type="text"/> (kg)	<input type="text"/> (kg)	<input type="text"/> (kg)
แบตเตอรี่ / Batteries	<input type="text"/> (kg)	<input type="text"/> (kg)	<input type="text"/> (kg)
หลอดฟลูออเรสเซนต์ / Fluorescent lamps	<input type="text"/> (no.)	<input type="text"/> (no.)	<input type="text"/> (no.)
อื่นๆ (ระบุ) / Other (specify)	<input type="text"/>	<input type="text"/>	<input type="text"/>
ชื่อของเสีย / Waste Type Name	หน่วย / Unit	<input type="text"/>	<input type="text"/>

ขอรับรองว่ารายละเอียดข้างต้นถูกต้องตามความเป็นจริง และมีขีดความสามารถเพียงพอที่จะจัดเก็บของเสียที่กักเก็บในสัปดาห์จนถึงวันขึ้นท่าเรือที่จะเดินทางต่อไปยังท่าเรือถัดไปได้
I confirm that the above details are accurate and there is sufficient capacities onboard capacity to store all waste generated between notification and the next port at which waste will be delivered

ลายเซ็นตัวแทนเรือ / Signature of Shipping Agent	ลายเซ็นผู้รับกำจัดของเสีย / Signature of Waste Contractor	ลายเซ็นเจ้าของเรือ หรือ ผู้แทนเจ้าท่าเมือง / Signature of Shipping Master or Representative of the ship
ตำแหน่ง / Post	ตำแหน่ง / Post	ตำแหน่ง / Post
วันที่ / เวลา / Date / Time	วันที่ / เวลา / Date / Time	วันที่ / เวลา / Date / Time

ท่าเรือจะดำเนินการรับของเสียจากเรือ และของเสียที่เกิดจากตู้สินค้าในท่าเรือ โดยยึดระเบียบของการท่าเรือแห่งประเทศไทย และระเบียบอื่น ๆ ที่เกี่ยวข้อง / The port will use the information at its discretion to organize the collection of ship-generated waste and cargo residues in the port. Port State Control and other inspection purposes
แบบแจ้งข้อมูลของเสียจากเรือมีผลบังคับใช้สำหรับเรือทุกลำที่จอดเทียบท่าเรือ / The "Ship Waste Notification Form" is mandatory for all vessels calling at the port
ส่งแบบแจ้งข้อมูลของเสียจากเรือผ่านระบบบริหารจัดการของเสียจากเรือ ไม่เกินกว่า 24 ชั่วโมงก่อนที่เรือจะเทียบท่าเรือ / This form should be sent via Ship Waste Notification Management System not less 24 hours before the ship arrives at the port or as soon as possible after departure from the previous port
ผู้รับกำจัดของเสียจากเรือจะชั่งน้ำหนักปริมาณของเสียที่เรือเก็บจากเรือ และผู้บังคับการเรือใช้แบบแจ้งข้อมูลของเสียจากเรือของท่าเรือเป็นใบยืนยันในการกำจัดของเสียที่ท่าเรือ / The Waste Operator will fill in the last column regarding the actual waste quantity and the ship captain can use this a confirmation of waste discharge.

สำหรับข้อมูลเพิ่มเติมโปรดติดต่อได้ที่: For more information please address: www.port.co.th

บันทึก (หมายเหตุ) / Note (Remark)

ปิด / Close

บันทึก / Save

ส่ง / Submit

For more information, please contact Environmental Affairs Section (02-2693760, 02-2693701)

The information that must be filled out are the following:

Information	Data type	Required
Berth App. No	character	<input checked="" type="checkbox"/>
Shipping Agent Name	character	<input checked="" type="checkbox"/>
Sender Name	character	<input checked="" type="checkbox"/>
Post	character	<input checked="" type="checkbox"/>
Ship Name	character	<input checked="" type="checkbox"/>
Call sign	character	<input checked="" type="checkbox"/>
IMO Number	character	<input checked="" type="checkbox"/>
Flag state and Port of registry of the ship	character	<input checked="" type="checkbox"/>
Gross Tonnage	number	
E-mail address	character	<input checked="" type="checkbox"/>
Fax number	character	
Phone number	character	<input checked="" type="checkbox"/>
Estimated time of arrival (ETA)	date and time	<input checked="" type="checkbox"/>
Estimated time of departure (ETD)	date and time	<input checked="" type="checkbox"/>
Number of crew	number	
Last port of call	character	
Next port of call	character	
Location of Waste Disposal	character	<input checked="" type="checkbox"/>
Convenient date and time	character	<input checked="" type="checkbox"/>
Note (Remark)	character	

The information of waste notification to specify the quantity and type of waste are the following: (The quantity of waste to be discharged notification, only 1 group of waste per 1 form)

Information	Data type	Required
Waste Type	choice	<input checked="" type="checkbox"/>
Quantity of waste discharged at last port of call optional	number	
Waste storage capacity (Optional)	number	
Quantity of waste to be discharged at Bangkok Port (Mandatory)	number	<input checked="" type="checkbox"/>
Choose Waste Contractor	choice	

Buttons will be displayed as following:

- Click **ปิด / Close** to close the waste notification form
- Click **บันทึก / Save** to save the information in the waste notification form
- Click **ส่ง / Submit** to save and submit the waste notification form to Bangkok Port

+ Create New Bangkok Port Ship Waste Notification Form							Refresh
Edit	Berth App. No.	Call Sign	Ship Name	Waste Collection Date	Status	WNF Form	Delete / Cancel
Edit	202100006HB	<i>Call Sign #</i>	<i>Ship Name</i>	30 Nov 2021 16:30	Sent To PAT		Cancel

After the data is saved, the waste notification form will be shown in the table.

Click **Edit** to edit the information in the waste notification form

Click **Cancel** to cancel the waste notification form

04

Waste Types Accepted at Bangkok Port _____

Waste Types Support at Bangkok Port

Waste Type	Accepted by the port	The costs of waste collection are covered by:	
		Sanitary Fee	Additional and special charges
Liquid oily waste from ship machinery space: <ul style="list-style-type: none">▪ Bilge water▪ Oil residues (sludge)	Yes	No*	No Directly charged by the waste operator
Sewage	Yes	No*	No
Garbage** <ul style="list-style-type: none">▪ Recycle waste (plastic, paper, glass, metal)▪ Floating dunnage▪ Compostable waste▪ Other types	Yes	Yes	No
Oily cargo residues: <ul style="list-style-type: none">▪ Dirty ballast▪ Wash water	Yes	No*	No
Hazardous waste <ul style="list-style-type: none">▪ Solid oily waste▪ Medical waste▪ Fluorescent lamps▪ Other hazardous waste▪ Batteries	Yes	No*	No

Note

* Payments for oily waste, sewage and hazardous waste collection take place directly in communication between the ship agents and the oily waste, sewage and hazardous waste collector.

** Garbage segregation requirements

The garbage must be segregated and packed into clear plastic bags with tags/markings.

- Recycle waste: Yellow
- Floating dunnage, lining or packing materials: Dark Blue
- Compostable waste–food waste: Green
- Other types of Garbage: No required

05

Formal Procedures

Regulation on Waste Notification

All ships entering the port shall act through their local agent, and in advance inform the ES of all types and volume of wastes which they plan to deliver to the port. This shall be done using the standard Waste Notification Form (WNF) into the Ship Waste Notification Management System that can be accessed through the One stop e-Port service of Port Authority of Thailand **not later than 24 hours before ship's arrival.**

Methods and Conditions for Waste Collection

The operating hours for collection services for all waste categories are available as schedule below:

Garbage collection:

- At berths within the port area, every day (8.30 a.m. – 4.30 p.m.) except Labor Day (1st May)
- At dolphins, Monday to Friday (8.30 a.m. – 4.30 p.m.)

Hazardous waste collection:

- At berths within the port area, every day (8.30 a.m. – 4.30 p.m.) except Labor Day (1st May)
- At dolphins, Monday to Friday (8.30 a.m. – 4.30 p.m.)

Oily waste collection:

- At berths and dolphins, everyday taken by ship or ship agent coordinate with waste contractors directly.

Sewage collection:

- At berths and dolphins, everyday taken by ship or ship agent coordinate with waste contractors directly.

Methods and Conditions for Waste Collection

Waste type	Method of	Terms of	Method of treatment and disposal
Liquid oily waste from ship machinery space: <ul style="list-style-type: none"> ▪ Bilge water ▪ Oil residues (sludge) 	To truck	Discharge by ships pump with rates not less than 15 m3 per hour, through standard flange connection to barge or truck	After collection, it is taken by a third party for further processing and recovery
Sewage	To truck	-	After collection, it is taken by a third party for further processing and recovery
Garbage: <ul style="list-style-type: none"> ▪ Recycle waste (plastic, paper, glass, metal) ▪ Floating dunnage ▪ Compostable waste ▪ Other non-hazardous waste 	To barge or truck	Accepted in clear plastic bags and are segregated according to BKP requirements, with indicators on the waste types on each bag (either by writing or tag)	After collection taken directly to municipal landfill
Oily cargo residues: <ul style="list-style-type: none"> ▪ Dirty ballast ▪ Wash water 	applicable	-	After collection, it is taken by a third party for further processing and recovery
Hazardous waste <ul style="list-style-type: none"> ▪ Solid oily waste ▪ Medical waste ▪ Batteries ▪ Fluorescent lamps ▪ Other hazardous waste 	applicable	-	After collection, it is taken by a third party for further processing and recovery

06

Roles and Responsibilities

Roles and Responsibilities of the Shipmaster

The shipmaster shall:

Comply with all national and international regulations of environmental safety and inform ES on problems or cases of non-compliance:

- All ships entering the port shall act through their local agent, and in advance inform the ES of all types and volume of wastes which they plan to deliver to the port. This shall be done using the standard Waste Notification Form (WNF) into the Ship Waste Notification Management System that can be accessed through the One stop e-Port service of Port Authority of Thailand **not later than 24 hours before ship's arrival**.
- Discharge ships' waste in compliance with the port and environmental regulations as specified in this manual. Discharge is mandatory if the ship collected tanks have less than 50% of its capacity remaining
- Plan waste discharging according to the schedule outlined by ES without causing delay for the waste operator
- Agree with the waste operator the actual volume of collected waste for each type of waste
- Sign the WNF with approving the actual disposed waste volume
- Fill in waste data in the Oil Record Book and Garbage Record Book; keep the signed WNF on board the ship
- If additional volume of waste has to be discharged by the ship (due to prolonged stay in the port or for any other reasons), the shipmaster must fill in, sign and submit a new WNF into the Ship Waste Notification Management System again
- Cooperate with any inspection/supervision department and provide access to ship documentation if necessary
- The shipmaster is overall responsible for the timely and accurate information in the WNF in compliance with the national and international regulations on environmental safety during calls to BKP.

Roles and Responsibilities of Ships Agents

The Ships agent is the focal point for the ship's communication with ES. The agent is obliged to inform the shipmaster about PAT regulations on environmental safety and assist him/her to comply with the requirements of these regulations.

- All ships entering the port shall act through their local agent, and in advance inform the ES of all types and volume of wastes which they plan to deliver to the port. This shall be done using the standard Waste Notification Form (WNF) into the Ship Waste Notification Management System that can be accessed through the One stop e-Port service of Port Authority of Thailand **not later than 24 hours before ship's arrival.**
- or latest immediately after departure from the previous port of call
- Must indicate the preferred time for discharge of ship generated waste
- Receive and pay invoices to the PAT Finance and Accounting Department
- Receive and pay for any oily waste collection, hazardous waste collecting and sewage collecting
- The agent is responsible for information provided timely and accurately in the WNF.

Roles and Responsibilities of PAT

Environmental Section:

- Receive the WNF from Ship Waste Notification Management System, Check the data and inform relevant section and waste contractors about the kind of service required for each particular ship
- Control all waste collections together with the waste operator to secure that the ship can comply with national as well as international regulations.
- Coordinate the activities of all the relevant departments in BKP involved in waste handling, propose amendments to the Ship Waste Management Manual (update the SWM manual)

PAT Finance and Accounting Department:

- Invoice the sanitary fee according to the requirements stipulated in Section 7 and submit to the ship agent.
- Reimburse the waste contractors for provided services based on existing Terms of References (TOR).

Craft Service Section:

- Carry out garbage collection at dolphins

Sanitary Section:

- Control the garbage collection at berths within BKP according to the requests from Ship Waste Notification Management System
- Control hazardous waste collection from ships at berth according to the WNF and inform ES in case of irregularities or non-compliance
- Statistics of waste collection and use this data for the next Terms of Reference (TOR)

Stevedoring and Control Section:

- Control oily waste collection from ships at berth according to the WNF and inform ES in case of irregularities or non-compliance
- Control sewage collection from ships at berth according to the data submitted in the Ship Waste Notification Management System and inform ES in case of irregularities or non-compliance

Role and Responsibilities of External Waste Contractors

After having received the information from Ship Waste Notification Management System, the waste contractor shall clarify the date and venue for waste collection and collect the waste according to the standard and PAT regulations.

The external waste contractors will collect:

- Garbage from a central collection point (storage area) within Port Authority of Thailand
- Garbage from ships at berth within BKP
- Oily waste from ships at berth within the port area
- Hazardous waste from ships at dolphins
- Sewage from ships at berths and dolphins
- Other waste permitted by ES

The external waste contractor provides collection by truck and/or by barge for the following types of waste: oil residues, bilges and sludge from machinery space and garbage from ships within the port and at the dolphins.

The Contractor can deliver/sell the segregated garbage and collected waste oil to third party but shall comply with all national environmental regulations.

A Contractor will provide collection of garbage segregated according to Section 4 and handle the waste in compliance herewith and with other regulations.

The Waste Contractors shall collect all kinds of waste stated under Section 4, in compliance with the requirements of environmental regulations, without any unjustified delay of ship departure. They also have to inform the ES about any problems and situations of non-compliance.

The waste contractor shall register all the types and volumes of waste collected and follow the requirements.

As such all wastes discharged from the ship becomes the property of the waste contractor immediately after having received it from the ships or collected from the central storage area within BKP and after the WNF has been signed by the waste operator and ship master after waste disposal. Revenue for any waste with commercial value will be regulated according to mutual agreement/contract.

The waste contractors are fully responsible for waste management (collection, treatment and final disposal) in compliance with legislation and regulation currently in force by the Royal Government of Thailand. If the services for waste collection are not provided according to these regulations ES in cooperation with the Legal Section in BKP have the right to terminate the contract or impose a fine.

Oily waste operator and sewage operator must submit Uniform Hazardous Waste Manifest to Es (wnms.bkp@gmail.com) every time after waste disposal operation.

07

Fees and Charges

Sanitary Fee

In accordance with the national legislation and port regulations a SF shall be paid by all ships calling BKP regardless of waste delivery (for exempted ship types, see Section 7.2). The SF will cover the cost of garbage collection of accepted volumes and waste types.

The garbage charge will be daily implemented with the ship with dimension 750 GRT.,Gt. upward depending on BKP's port stop area. The charge will be as following rate:

	<u>Baht/Ship/Day</u>
At berth	150
At Klong Toey Dolphin	300
At Bang Hua Suea Dolphin	500

The ship with other sized can request for the garbage collection and will be charged as the rate determined.

Ships Exempted from the Sanitary Fee

The following ship categories are exempted from paying the SF.

- Ships lower than 750 Gross Tonnage (GT)
- Pleasure yachts, private boats, dingies, etc.
- Tug boats and smaller vessels operating under BKP
- Fishing vessels

Note: Ships exempted that wish to dispose garbage shall pay SF according to PAT regulations.

Ships Disposing Oily Waste

All ships disposing oily waste shall discharge directly in agreement with the oily waste contractor. This includes all logistic arrangements and price for disposal. The ES shall be informed of irregularities or non-conformities.

Ships Disposing Hazardous Waste

All ships disposing hazardous waste shall discharge directly in agreement with the oily waste contractor. This includes all logistic arrangements and price for disposal. The ES shall be informed of irregularities or non-conformities.

Ships Disposing Sewage

All ships disposing sewage shall discharge directly in agreement with the oily waste contractor. This includes all logistic arrangements and price for disposal. The ES shall be informed of irregularities or non-conformities.

08

Standard Documents

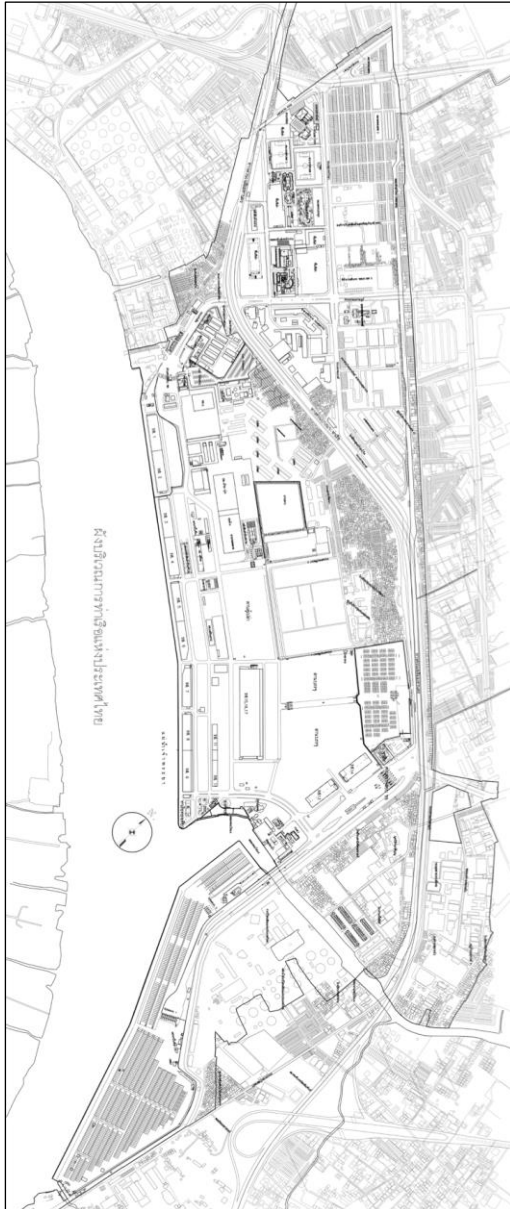
In the present section, the standard documents are given for registration and documentation of data under the Ship Waste Notification Management System of BKP.

The following standard forms and documents are included to this manual:

1. Port Authority of Thailand (PAT) Notice on the Management of Waste from Ships in Bangkok Port
2. Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Garbage and Solid Waste, B.E. 2560
3. Marine Department Regulation on the Certification of Service Providers for Collecting and Treatment of Bilge Water, Oily Waste, Contaminated Water and Chemical Waste, B.E. 2558
4. The International Convention for the Prevention of Pollution from Ship–MARPOL 73/78
5. Ship Waste Notification Form
6. Waste discharge’s criteria following to MARPOL 73/78
7. BKP’s garbage charge notice

Annex 1

Map of Bangkok Port



Annex 2

Requirements for Standard Discharge Connections (MARPOL 73/78)

Description	Dimension
Outside diameter	215 mm.
Inner diameter	According to pipe outside diameter
Bolt circle diameter	183 mm.
Slots in flange	6 holes 22 mm. in diameter equidistantly placed on a bolt circle of the above diameter, slotted to the flange periphery. The slot width to be 22 mm.
Flange thickness	20 mm.
Bolts and nuts: quantity, diameter	6, each of 20 mm. in diameter and of suitable length

The flange is designed to accept pipes up to a maximum internal diameter of 125 mm. and shall be of steel or other equivalent material having a flat face. This flange, together with a gasket of oil-proof material, shall be suitable for a service pressure of 600 kPa.

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