Construction Waste Disposal Charging Scheme

Briefing Session to the Trade
South East New Territories Landfill (Tseung Kwan O)

1995  

2005
Waste Management in HK

Construction Waste Disposal Charging Scheme
Waste Management in HK

Solid Waste

- Municipal Solid Waste
  - Domestic Waste
  - Commercial & Industrial Waste

- Construction Waste
Municipal Solid Waste
Quantities of Municipal Solid Waste Disposed

![Graph showing the quantity of municipal solid waste disposed from 1986 to 2004. The quantity increased overall, with minor fluctuations.](image-url)
Quantities of Municipal Solid Waste Disposed

2004: 9,280 tonnes per day

Average per capita per day (Kg)

Domestic waste
7,010
(75.5%)

Commercial & Industrial Waste
2,270
(24.5%)
Recovery of Municipal Solid Waste

2004 Recovery Rate: 40%

- Disposed: 9,280 tonnes per day (60%)
- Recovered: 6,280 tonnes per day (40%)

2000 – 2004 Recovery Rate

- 2000: 34%
- 2001: 36%
- 2002: 36%
- 2003: 41%
- 2004: 40%
Types of materials recovered

- Ferric metals (42%)
- Paper (38%)
- Other metals (4%)
- Plastics (12%)
- Others* (4%)

* Others include electrical & electronic appliances, textiles, tyres, glass and timber

Form of recovery

- Export (91%)
- Local (mainly waste paper) (9%)

In 2004 export recovered materials brought about an income of 3.4 billion dollars.
Construction Waste
Quantities of Construction Waste Generated

The chart shows the quantities of construction waste generated per day from 1991 to 2004. The quantities are measured in tonnes per day. The graph indicates a steady increase in waste generation over the years, with a significant rise towards the end of the period.

About 15% (7,500 tonnes per day)

About 85% (40,000 tonnes per day)

- Received at Public Filling Reception Facilities
- Received at Landfills
Landfills will be full in 6 to 10 years!
Waste Management Principle

Avoid
Minimise
Reuse/Recycle
Treat
Dispose
Construction Waste Disposal Charging Scheme

- Background
- Key Dates and Events
- Account Application
- Operation
- Payment of Charges
- Publicity
- Summary
Construction Waste Disposal
Charging Scheme

- Background
Based on "Polluter Pays Principle"

- Construction waste producers are encouraged to reduce waste through sorting, reuse and recycling
- Disposal costs can be minimised and our valuable landfill space can be preserved
- Waste producers are charged directly for disposal of construction waste

Common practice in most countries

- e.g. USA, UK, Canada, Sweden, Japan, Singapore, etc.
Ordinance and Regulations

Waste Disposal Ordinance (Cap 354)

Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap 354N)
(Passed by LegCo on 5 January 2005)

Waste Disposal (Designated Waste Disposal Facility) Regulation (Cap 354L)
(Amendment passed by LegCo on 5 January 2005)
Waste Disposal (Charges for Disposal of Construction Waste) Regulation (section 2)

Construction waste means:

any substance, matter or thing that is generated from construction work and abandoned, whether or not it has been processed or stockpiled before being abandoned, but does not include any sludge, screenings or matter removed in or generated from any desludging, desilting or dredging works.
Construction work means:

(a) the construction, erection, installation, reconstruction, repair, maintenance (including redecoration and external cleaning), renewal, removal, alteration, improvement, addition, dismantling, or demolition of any of the following structures or works—

(i) any building, edifice, wall, fence or chimney, whether constructed wholly or party above or below ground level;

(ii) any road, motorway, railway, tramway, cableway, aerial ropeway or canal;

(iii) Any harbour works, dock, pier, sea defence works or lighthouse; ...

(b) any work involved in preparing for any operation referred to in paragraph (a); or

(c) the use of machinery, plant, tools, gear and materials in connection with any operation or work referred to in paragraph (a) or (b)
Inert construction waste

Rock, rubble, boulder, earth, soil, sand, concrete, asphalt, brick, tile, masonry or used bentonite
Where Does Construction Waste Go?

Construction waste producers are encouraged to reduce waste through sorting, reuse and recycling.

Inert construction waste sent to Public Fill Reception Facilities.

If on-site sorting not available or feasible, mixed construction waste sent to Sorting Facilities / Landfills (based on content of inert construction waste).
Designated Waste Disposal Facilities

Legend:
- Red diamond: Public fill reception facilities
- Blue triangle: Sorting facilities
- Black circle: Landfills
- Green square: Outlying Islands Transfer Facilities
Public Fill Reception Facilities (CEDD)

- TKO Area 137 Fill Bank
- TM Area 38 Fill Bank
- Quarry Bay Temporary Public Filling Barging Point
- Mui Wo Temporary Public Fill Reception Facility
Sorting Facilities (CEDD)
(To be commissioned in Oct 2005)

TM Area 38 Temporary Construction Waste Sorting Facility

TKO Area 137 Temporary Construction Waste Sorting Facility
Landfills (EPD)

North East
New Territories Landfill
(Ta Kwu Ling)

West
New Territories Landfill
(Nim Wan, Tuen Mun)

South East
New Territories Landfill
(Tseung Kwan O)
Outlying Islands Transfer Facilities (EPD)
Types of Acceptable Construction Waste and Disposal Charges

- **Public Fill Reception Facilities**
  - Each load consisting *entirely* of inert construction waste
  - $27 / tonne

- **Sorting Facilities**
  - Each load containing *more than 50%* by weight of inert construction waste
  - $100 / tonne

- **Landfills**
  - Each load containing *not more than 50%* by weight of inert construction waste
  - $125 / tonne

- **Outlying Islands Transfer Facilities**
  - Each load containing *any percentage* of inert construction waste
  - $125 / tonne
Construction Waste Disposal Charging Scheme

- Key Dates and Events
Dry-run
(Free of Charge)

- Since 15 July 2005.
- To let contractors and waste haulers familiarise with the use of “Chits”.
- To enable the trade to familiarise with the operation at the designated waste disposal facilities.
- To facilitate fine-tuning of the new systems at the designated waste disposal facilities.
Ordinance and Regulations

Commencement Notices posted in the Gazette published on 16 September 2005

Waste Disposal Ordinance (Cap 354)

Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap 354N)
(Passed by LegCo on 5 January 2005)

Waste Disposal (Designated Waste Disposal Facility) Regulation (Cap 354L)
(Amendment passed by LegCo on 5 January 2005)
WASTE DISPOSAL (AMENDMENT) ORDINANCE 2008 (COMMENCEMENT) NOTICE

Under section 1(2) of the Waste Disposal (Amendment) Ordinance 17 of 2003, I appoint 1 December 2008 as the date on which the Ordinance shall come into operation.

Dr Sarah LAIO
Secretary for the Environment, Transport and Works
17 September 2008

WASTE DISPOSAL (CHARGES FOR DISPOSAL OF CONSTRUCTION WASTE) REGULATION (COMMENCEMENT) NOTICE 2008

1. Under section 1 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulations (Cap. 247 of 1993), I appoint 1 December 2008 as the day on which the following provisions of the Regulation shall come into operation:
   (a) Part 1, 5 and 6;
   (b) Part 3 (except sections 14 to 18 and 18(1) to (3));
   (c) Part 5;
   (d) Schedule 1 (except Part 2);
   (e) Schedule 2 (except Part 2);
   (f) Schedule 3 (except Part 2);
   (g) Schedule 4 (except items 3 and 4 of Part 1, and Part 2); and
   (h) Schedule 5.

2. Under section 1 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulations (Cap. 247 of 1993), I appoint 28 January 2006 as the day on which the following provisions of the Regulation shall come into operation:
   (a) Part 1;
   (b) sections 1 to 9, 11 to 14, 16(1) to (3); and
   (c) Part 2 of Schedule 1.

Dr Sarah LAIO
Secretary for the Environment, Transport and Works
17 September 2008

WASTE DISPOSAL (DESIGNATED WASTE DISPOSAL FACILITY) (AMENDMENT) REGULATION 2004 (COMMENCEMENT) NOTICE 2008

1. Under section 1 of the Waste Disposal (Designated Waste Disposal Facility) (Amendment) Regulations 2004 (L.N. 63 of 2004), I appoint 1 December 2008 as the day on which the following provisions of the Regulation shall come into operation:
   (a) sections 1 to 2;
   (b) section 5 (in relation to new section 5A(3) and (5));
   (c) sections 6 and 7 and (6) and (7); and
   (d) section 9(3) (in relation to new sections 23 and 25 of Schedule 2).

2. Under section 1 of the Waste Disposal (Designated Waste Disposal Facility) (Amendment) Regulations 2004 (L.N. 63 of 2004), I appoint 30 January 2006 as the day on which the following provisions of the Regulation shall come into operation:
   (a) sections 1 to 4, 6 and 7;
   (b) section 8 (in relation to new Schedule 2); and
   (c) section 16 (in relation to new Schedule 2).

Dr Sarah LAIO
Secretary for the Environment, Transport and Works
17 September 2008
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 December 2005 (Thu)</td>
<td>Processing of account applications by EPD starts.</td>
</tr>
<tr>
<td>20 January 2006 (Fri)</td>
<td>Charging for disposal of construction waste starts and from this day, any person before using waste disposal facilities for disposal of construction waste needs to open an account.</td>
</tr>
</tbody>
</table>
Types of Account

Payment of charges through billing account opened with EPD:

- **Billing Account for Construction Work Contract with Value of $1 million or Above**
- **Billing Account for Construction Work Contract with Value less than $1 million**
  (and general construction waste disposal arrangement)
- **Exemption Account**

*Construction work contracts awarded or tenders of which closed before 1 December 2005 are eligible for exemption from charges. Application must be made on or before 22 December 2005.*
Main contractor who undertakes construction work under a contract with value of $1 million or above is required to open a billing account solely for the contract. Application shall be made within 21 days after the contract is awarded. Failing this will be an offence under the law.

Under Waste Disposal (Charges for Disposal of Construction Waste) Regulation (section 9(3)), "main contractor" means a person who enters into a contract directly with an owner or occupier of any land, or with an agent or authorized architect, surveyor or engineer of such owner or occupier, to perform any construction work for such owner or occupier.
Billing Account for Construction Work Contract with Value less than $1 million
(and general construction waste disposal arrangement)

For construction work under a contract with value less than $1 million, such as minor construction or renovation works, any person such as the owner of the premises where the construction works take place or his/her contractor can open a billing account; the account can also be used to pay charges for contracts each with value less than $1 million. The premises owner concerned may also engage a contractor with a valid billing account to make arrangement for disposal of construction waste.
From 1 to 22 December 2005

- **Exemption Account**

Submission of applications for opening **exemption account** for individual eligible contracts, regardless of contract value.
Billing Account for Construction Work Contract with **Value of $1 million or Above**

Billing Account for Construction Work Contract with **Value less than $1 million**
(and general construction waste disposal arrangement)

**Exemption Account**

**Pay Deposit ($)**

“Chits”
Construction Waste Disposal Charging Scheme

- Account Application
How to open an account

1. Get an application form
   - www.epd.gov.hk
   - Call: 2872-1838
   - Collect in person at any of the offices*

Types of application form

- Billing account for contract of value equal to or greater than $1 million
- Billing account for contract of value less than $1 million
- Exemption account (Apply on or before 22 December 2005)
- Request for “Chits” (Applicable to existing account holders)
- Closing or reinstatement of account
- Notification of changes
Application Forms
## Required Documents and Information

<table>
<thead>
<tr>
<th></th>
<th>Photocopy of <strong>H.K. Identity Card or Business Registration Certificate</strong></th>
<th>Photocopy of proof of residential address or company address</th>
<th>Photocopy of relevant parts of the construction work contract</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Billing Account for Construction Work Contract with Value of $1 million or Above</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Billing Account for Construction Work Contract with Value less than $1 million</strong> (and general construction waste disposal arrangement)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Exemption Account</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
“Chits” will be issued to account-holders.
Deposits for “Chits”

- **Account for work contract of value ≥ $1 million**
  - Minimum $15,000 for issuance of 200 “Chits” for each account. Additional “Chits” at $75 each.

- **Account for work contract of value < $1 million** (and general construction waste disposal arrangement)
  - $300 per “Chit”.
  - For Outlying Islands Transfer Facilities users
  - $75 per “Chit”.

Construction Waste Disposal Charging Scheme

- Operation
Every waste load needs to be delivered with a valid “Chit”.

II  How to use a "Chit"

1. Account-holder makes arrangement for disposal of construction waste

2. Account-holder fills in and issues "Chit" to waste hauler and retains Part A

- A - B - C

○: Circled information to be completed by account-holder
Part A: retained by Account-holder

Part B: retained by Waste Hauler

Part C: retained by Government
Waste hauler presents Parts B & C of "Chit" to operator of designated waste disposal facility when using the disposal service**. On completion of the service, waste hauler retains Part B of the "Chit".

** If inert content of construction waste cannot meet the acceptance criteria of the designated waste disposal facility, a "rejection advice" giving reason[s] for the rejection with the recommended waste disposal facility would be issued to the waste hauler.
Entering a Designated Waste Disposal Facility
駛進建築廢物處置設施
SENT Landfill
Traffic Management
交通管理
Stop at In-weighbridge

在入口磅橋停下
Hand “Chit” to Weighbridge Operator
提交「載運入帳票」與磅橋操作員
Scanning Barcodes on “Chit”

掃描「載運入帳票」條碼
Types of Acceptable Construction Waste

- **Public Fill Reception Facilities**
  - Each load consisting *entirely* of inert construction waste

- **Sorting Facilities**
  - Each load containing *more than 50%* by weight of inert construction waste

- **Landfills**
  - Each load containing *not more than 50%* by weight of inert construction waste

- **Outlying Islands Transfer Facilities**
  - Each load containing *any percentage* of inert construction waste
Determination of 50% Inert Construction Waste Content

\[
\text{Permitted Gross Vehicle Weight (registered with Transport Department)} = \text{Tare Weight of Vehicle} + \text{Max. Weight of Waste Allowable}
\]
Determination of 50% Inert Construction Waste Content

Weight Ratio:

\[
\text{Weight of waste} = \text{Weight at in-weighbridge} - \text{Tare weight of vehicle}
\]

Permitted Gross Vehicle Weight (PGVW)
For goods vehicles with demountable skips

For Weight Ratio \( \leq 0.25 \)

- Inert construction waste content \( \leq 50\% \)
- Landfills
For other types of vehicle

For Weight Ratio $\leq 0.20$

- Inert construction waste content $\leq 50\%$
- Landfills
Weight at In-weighbridge and Weight Ratio shown on Display Board

顯示入口磅橋車輛總重及百分比

入載重量
In Wgt 15.99
百分比
% 0
Stamping on “Chit”
在「載運入帳票」上面蓋印
Operation inside Weighbridge Office
磅房內的操作

Vehicle Weight
車的重量

Top view of vehicle
車的頂部

Vehicle Registration
車牌號碼
Discharge of Waste at Tipping Area
傾倒廢物
Stop at Out-weighbridge
在出口磅橋停下
Weights and Charge Load shown on Display Board

顯示廢物重量及收費重量
Leave
Waste transaction records can be obtained at:

- **Waste disposal facilities**
  (available right after the transaction)

- **EPD website**
  (available few days after the transaction)
Waste transaction record provided at waste disposal facilities

Waste transaction record at EPD website
Construction Waste Disposal Charging Scheme

- Payment of Charges
  (Not applicable to Exemption Account)
III How to pay

1. EPD issues monthly demand note and waste transaction information to account-holder.
**Monthly Demand Notice**

ABC Construction Company  
8 Victoria Road, Kennedy Town, Hong Kong

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Amount (HKD)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>15/02/2000</td>
<td>Current Charges</td>
<td>1,026.73</td>
<td></td>
</tr>
<tr>
<td>01/12/2000</td>
<td>Current Charges</td>
<td>575.00</td>
<td></td>
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<tr>
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<td>243.00</td>
<td></td>
</tr>
<tr>
<td>03/01/2000</td>
<td>Current Charges</td>
<td>75.00</td>
<td></td>
</tr>
<tr>
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<td>Current Charges</td>
<td>1,006.00</td>
<td></td>
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Total Amount Payable: 8,219.70

Environmental Protection Department

Monthly Demand Notice

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Total Amount Payable: 8,219.70

Environmental Protection Department
III How to pay

Account-holder pays charges within 45 days from the date of demand note***

*** If the charges are not paid by due date, the account-holder shall pay a surcharge of 5% of the unpaid amount. If the unpaid charges and the surcharge are not paid within 14 days from the date on which the surcharge becomes payable, the Director of Environmental Protection may suspend the account and serve a final notice to the account-holder. Where the charges and the surcharge are not paid within 14 days from the date of the final notice, the Director may revoke the account.

- By Post
- In Person
- Through Phone Payment Service (PPS)
- Through Internet
Construction Waste Disposal
Charging Scheme

- Publicity
Publicity

- Radio and TV Broadcast
- Leaflets
- Posters
Leaflet(I)
Leaflet(II)

The Construction Waste Disposal Charging Scheme comes into operation on 1 December 2005. Charges for disposal of construction waste are to be paid through accounts opened with the Environmental Protection Department (EPD).

Construction works contracts awarded or tenders of which closed before 1 December 2005 are eligible for exemption from charges. Application for exemption account must be made on or before 22 December 2005.

Charging for disposal of construction waste starts from 20 January 2006. From this day onwards, any person involved in waste disposal facilities for disposal of construction waste must open an account.

How to open an account

1. Get an application form from the EPD office.
2. Submit application with the required documents to the EPD office.
3. Pay deposit stated on the demand note.
4. Bring collection note to designated office to collect Chit.

II

How to use a “Chit”

Account-holders make arrangements for disposal of construction waste at the time of winning contract. Following are the steps to be followed:

1. Account-holder makes arrangements for disposal of construction waste and issues “Chit” to waste hauler and retains Part A.
2. Waste hauler presents Part B & C of “Chit” to operator of designated waste disposal facility.
3. Upon completion of service, waste hauler retains Part C of the “Chit”.
4. If waste disposal facility does not receive the acceptance copy of the waste disposal facility or “Chit”, a “Stop” order would be initiated.

How to pay

1. EPD issues monthly demand note and waste transaction information to account-holder.
2. Account-holder pays charges within 45 days from the date of demand note.
3. If the charges are not paid by the due date, the account holder shall pay a surcharge of 10% of the unpaid amount.

For more details, please contact EPD at 2898 3111 or visit www.epd.gov.hk.
Leaflet(II)
Leaflet(III)
**Poster(I)**

Pay for Disposing of Construction Waste

**Poster(II)**

The Construction Waste Disposal Charging Scheme

1. Obtain application form for billing account
2. Submit application
3. Pay deposit
4. Receive notification and collect "Chits"
5. Use "Chits" for disposal of construction waste at waste disposal facilities
6. Before due date, make payment through billing account
7. To apply for an exemption account, submit a bill to the Environmental Protection Department
Construction Waste Disposal
Charging Scheme

- Summary
Summary

- **Starting from 1 December 2005**
  
  - Processing of account applications by EPD:
    
    - Billing Account for Construction Work Contract with Value of $1 million or Above. Application shall be made within 21 days after the contract is awarded. Failing this will be an offence under the law.
    
    - Billing Account for Construction Work Contract with Value less than $1 million (and general construction waste disposal arrangement)

- **From 1 to 22 December 2005**
  
  - Submission of applications for opening exemption account for individual eligible contracts, regardless of contract value.
Summary (cont’d)

- From 20 January 2006
  
  - Charging for disposal of construction waste starts and any person before using waste disposal facilities for disposal of construction waste needs to open an account.
Any person before using waste disposal facilities for disposal of construction waste needs to open an account.

Take good care of “Chit”.

Need to present a “Chit” when using waste disposal facilities for disposal of construction waste. (One “Chit” for one waste load)

When using waste disposal facilities for disposal of construction waste, follow instructions at the facilities and of facility operators.

Construction waste disposal charges must be paid through billing accounts opened with EPD.
Enquiries

2838 3111

enquiry@epd.gov.hk

Further information

www.epd.gov.hk
建築廢物處置收費計劃
Construction Waste Disposal Charging Scheme

公眾填料接收設施
接收標準
Materials Acceptable Criteria
at Public Fill Reception Facility (PFRF)
公眾填料接收設的接收標準
Acceptance Criteria in Public Fill Reception Facilities

根據《廢物處置(指定廢物處置設施)規例》附表2
In accordance with Schedule 2 of the Waste Disposal (Designated Waste Disposal Facility) Regulation

• 完全由惰性建築廢物組成的建築廢物。 (即佰份佰惰性建築廢物)
  Construction waste consisting entirely of inert construction waste. ( i.e. 100% inert construction waste)

• 按實際可行為原則，接收標準將以傾卸泥土執照內之條件作指引。
  On ‘practically possible’ basis, the condition in dumping licence is used as guideline for material acceptance
Prerequisite in using Public Fill Reception Facilities

- Valid Dumping Licence
- Disposal Delivery Form (Government Contracts)
- Chit
Condition No. 7 in Dumping Licence

The following materials may be disposed of at public filling facilities under this licence:

(a) 土 earth
(b) 建築碎料 building debris
(c) 碎石和混凝土 broken rock and concrete

The materials shall be free from marine mud, pond mud, household refuse, plastic, metal, industrial and chemical waste, animal and vegetable matter, and other material considered unsuitable by the Filling Supervisor. Small quantities of timber mixed with otherwise suitable material, could be permitted subject to the requirements of individual facilities....
合適物料
 Suitable Materials

a. 泥土
   earth

b. 建築碎料
   building debris

c. 碎石和混凝土
   broken rock and concrete.

** 小量木料夾雜在適當的物料內，而實行上難在源頭分隔，則該等物料須視乎個別填土設施的要求予以接受。
Small quantities of timber mixed with otherwise suitable material, which could not practically possible be separated at source, would be permitted subject to the requirements of individual facilities.
Unsuitable Materials

- 海泥  marine mud
- 塘泥  pond mud
- 家居垃圾 household refuse
- 塑膠  plastic
- 金屬  metal
- 工業和化學廢料  industrial and chemical waste
- 動植物  animal and vegetable
MATERIALS NOT ACCEPTABLE (Marine Mud and Pond Mud)
不適當物料 (垃圾)
MATERIALS NOT ACCEPTABLE (Refuse)
不適當物料 (塑膠、橡膠)
MATERIALS NOT ACCEPTABLE (Plastic and Rubber)
不適當物料 (金屬)
MATERIALS NOT ACCEPTABLE (Metals)
MATERIALS NOT ACCEPTABLE (Vegetable Matter)
Suitable Materials
公眾填料接收設施內的檢查及監察
Checking and Monitoring in PFRF

• 隨機抽查
  Random Checking

• 使用閉路電視在傾卸點監察及錄影
  CCTV monitoring and recording at loading point
The End