A SURVEY OF OPINIONS FROM RESIDENTS IN TSEUNG KWAN O ON THE NUISANCES FROM THE SOUTH-EAST NEW TERRITORIES (SENT) LADNFILL

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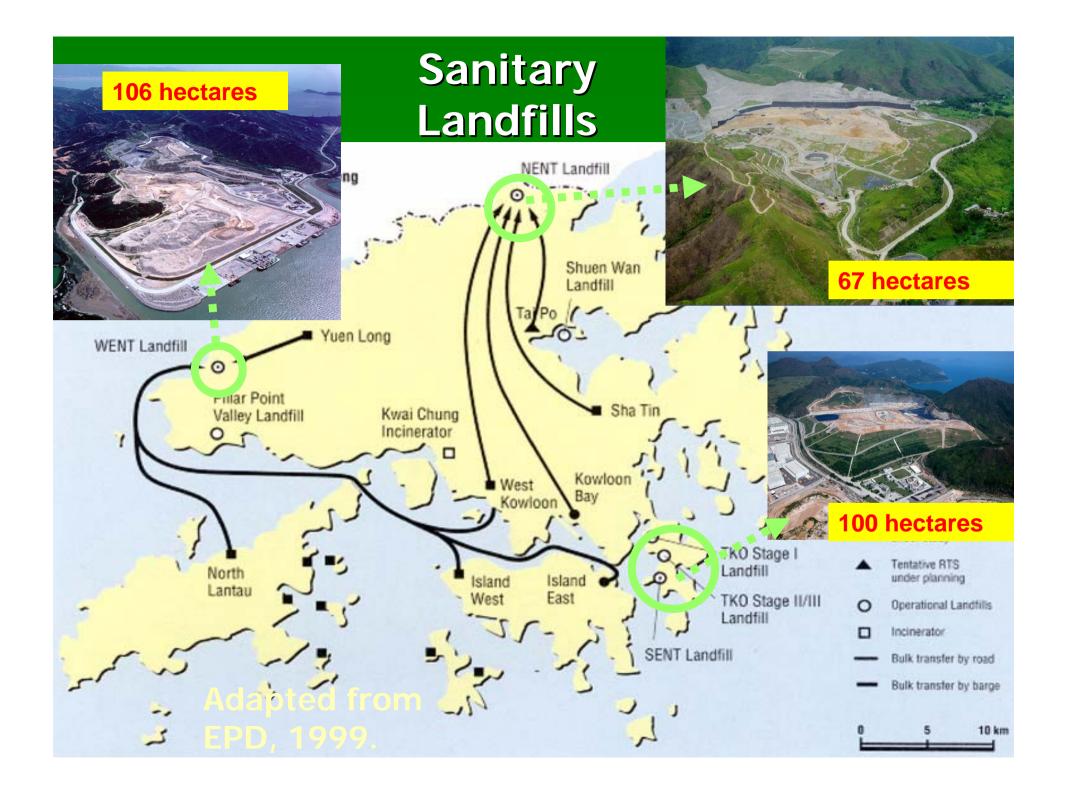
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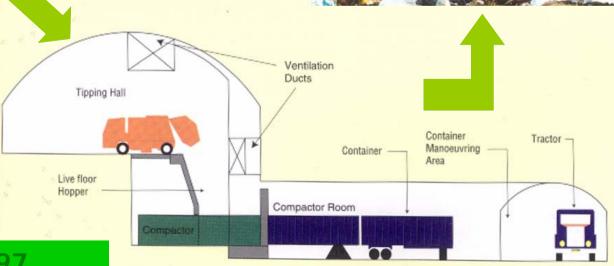


Sanitary landfill as major MSW management in Hong Kong

Adapted from EPD, 1995.

Construction
Wastes, toxic
wastes and
packaging
Wastes must
be avoided to
go to landfills.

Refuse Transfer Station for waste compacting to reduce waste volume.



Adapted from EPD, 1997.



Adapted from EPD, 1995.



Sanitary landfill as major MSW management in Hong Kong



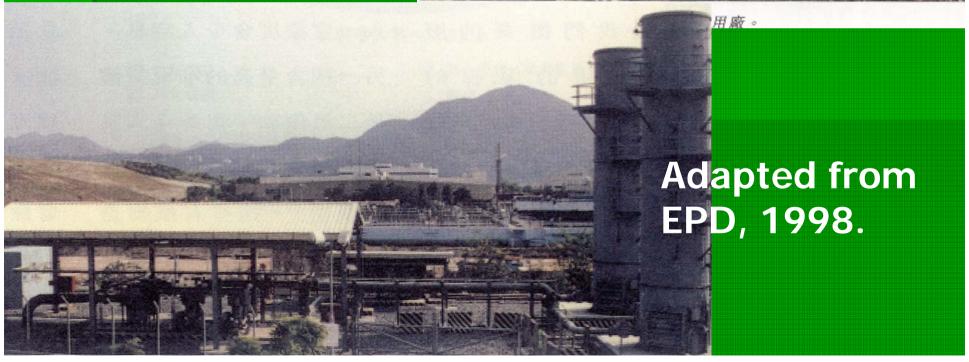


Compacted solid waste sent via boat or truck Sanitary landfill site with control tipping and landfill gas control 1. Sanitary landfill as major MSW management in Hong Kong

Major problems with landfills:

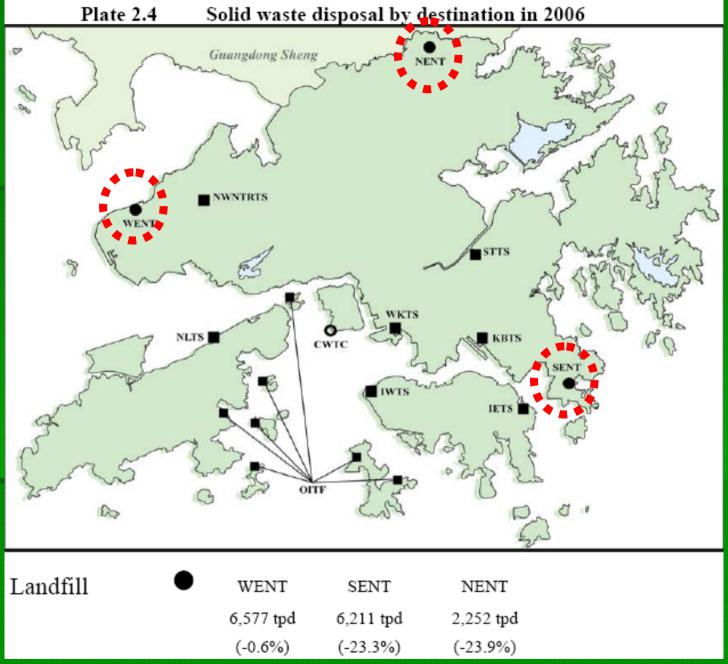
[1] Landfill gas and [2] leachate.





Existing Facilities for municipal waste management are costly

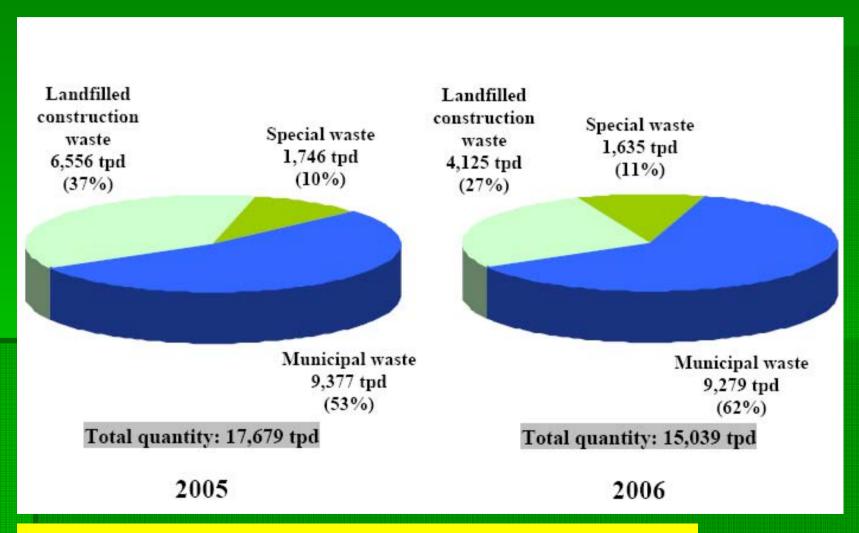
- Efficient refuse transfer system (0.355 billions per year)
- Chemical waste treatment center at Tsing Yi (0.435 billions per year to run the chemical waste plants)
- Costly to build and maintain landfills: 6 billions for three sites and 0.432 billion HKD per year to run these sites.
- Landfills have their life-span: NENT/ WENT/ SENT landfills will be filled up by 2015 or 2012.



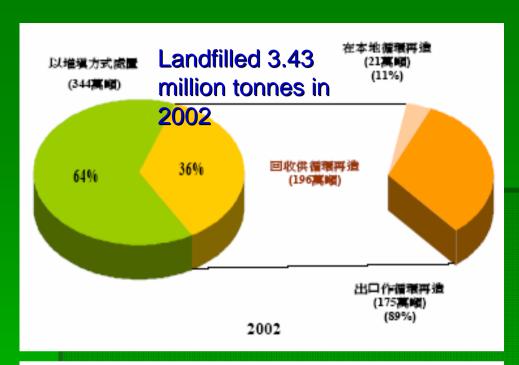
Adapted from EPD 2006 Monitoring of Solid Waste in Hong Kong, Waste Statistics for 2006 (http://www.epd.gov.hk/epd/english/environmentinhk/waste/data/files/msw2006.pdf)

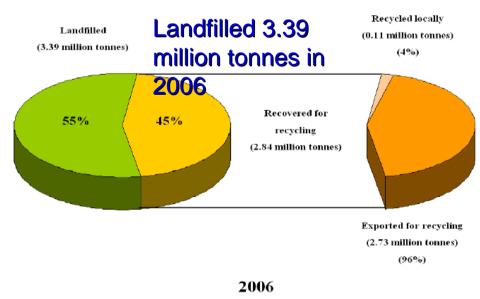
Solid Waste Disposed at Landfills

Adapted from EPD 2006 Monitoring of Solid Waste in Hong Kong, Waste Statistics for 2006 (http://www.epd.gov.hk/epd/english/environmentinhk/waste/data/files/msw2006.pdf)



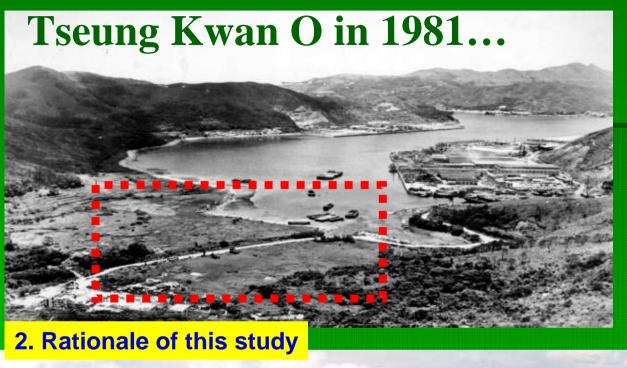
Sanitary landfill as major MSW management in Hong Kong





Municipal Wastes Disposed of to Landfills remain unchanged: increase of waste recycled < increase of waste production = waste disposal to landfills remain unchanged.

New Town Development in Hong Kong



In 1980s, TKO became a New Town and massive land reclamation was scheduled to accommodate a population of 400,000 by 2010.

Tseung Kwan O in 2002

將軍澳的現在與未來



TKO Stage I



2. Rationale of this study

將軍澳居民日忍薰天惡臭 堆填區入侵郊野公園 焚化爐伺機進攻

議員駕泥頭車示威反對將軍澳堆填區擴建



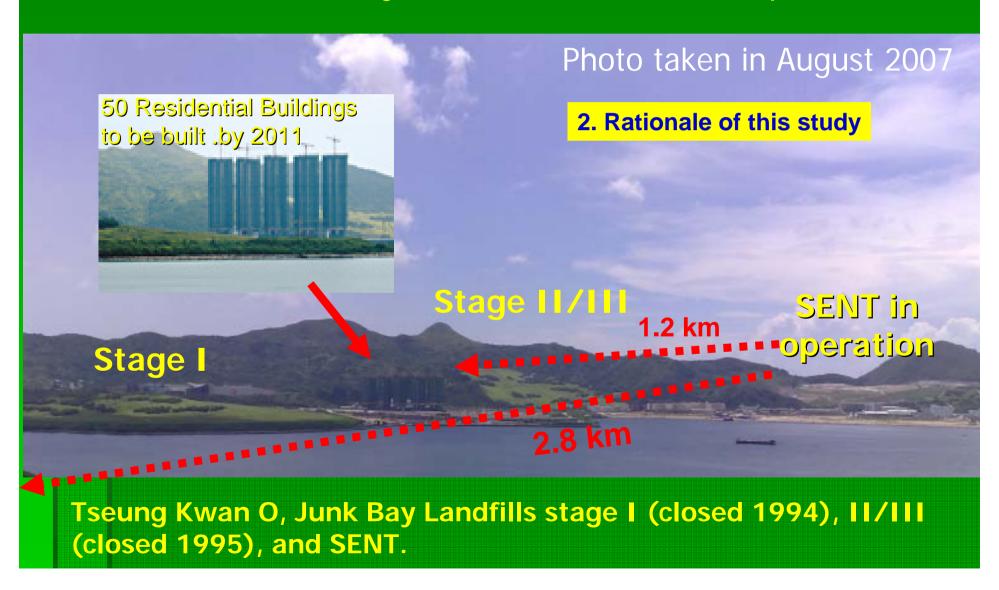




- 1. Fly infestation
- 2. Odour
- 3. Waste Collection Vehicles

2. Rationale of this study

Landfills are causing nuisances to ~ 150,000 residents near by with truck and odour problems.



將軍澳堆填區意見調查2007 綠色社區 Green Community

(一)調查及回收資料

調查日期:2007年7月3日至7月17日

調查時間:下午4:30至晚上7:30

調查方法:本會義工於

■ 毓雅里近旭輝臺處

■ 景林邨對出及和明苑

▶將軍澳地鐵站B出口

Yuk Ah Lane, King Lam and Woo Ming Estates, TKO MTR Exit B

向行人進行問卷調查 (Face to face street survey with standard questionnaire conducted by volunteers of Green Community)。



2. Rationale of this study



(二)回收情況

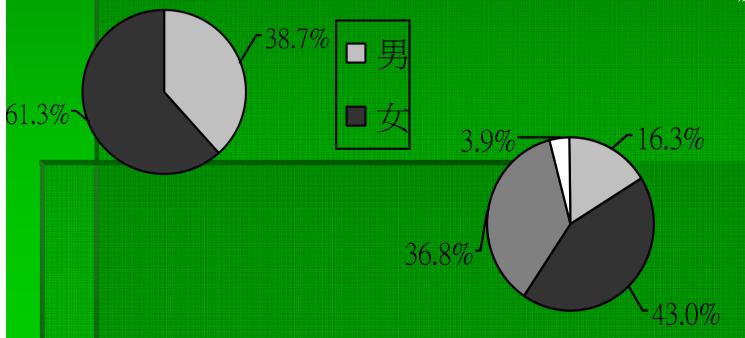
1.成功問卷數目: 416人

(三) 問卷結果

- 1・被訪者性別 Sexes
- •男 38.7% Male
- •女 61.3% Female

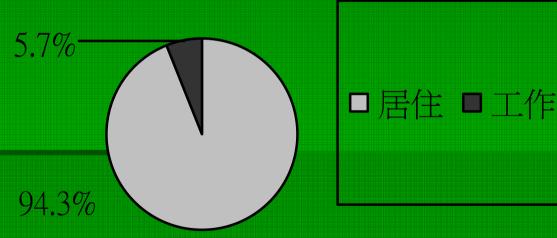


- •20歲以下 16.3%
 - •20-40歲 43%
 - •40-60歲 36.8%
 - •60歲以上 3.9%

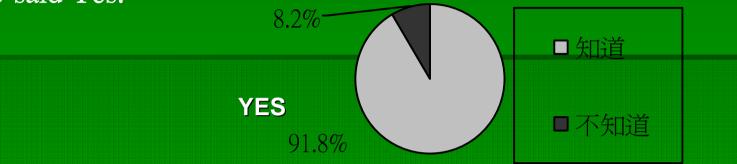


- □20歲以下
- 20-40歳
- □ 40-60歳
- 口60歲以上

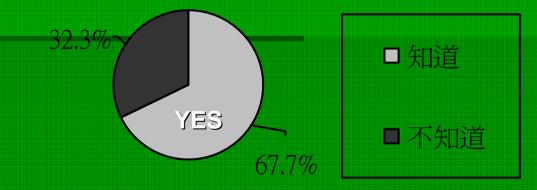
4·被訪者 在將軍澳居住 94.3% Living in TKO 在將軍澳工作 5.7% Only work at TKO



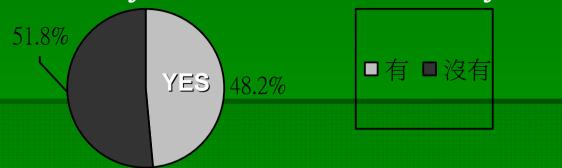
5 · 是否知道將軍澳有堆填區? Did you know about the landfill in TKO? 92% said Yes.



6 · 在搬進將軍澳前,是否知道有堆填區 Did you know about the landfill before you moved to TKO? 67.7% said yes.



7 · 將軍澳堆積區有沒有對被訪者構成滋擾? Does the landfill cause any nuisances? 48.2% said yes.



8 ・ 堆填區為被訪者帶來甚麼滋擾?

What sorts of nuisances come from the landfill?

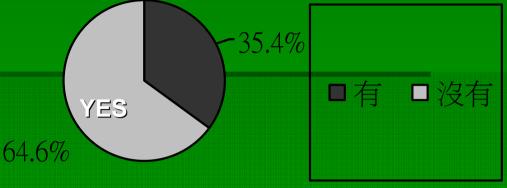
- •垃圾車的噪音 16.5% Noise from truck
- •堆填區傳出的臭味 60.8% Sticky Smell
- •以上兩項皆是 22.7% Both



9·是否想過因爲堆填區的滋擾而搬離將軍澳?

Ever thought about moving out of TKO due to the nuisances?

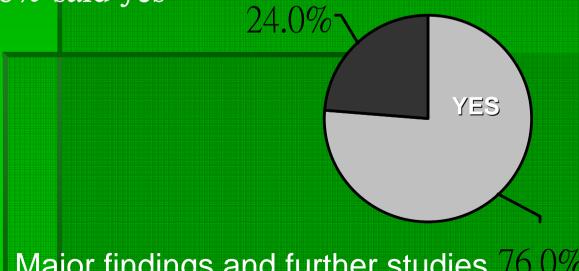
64.6% said yes.

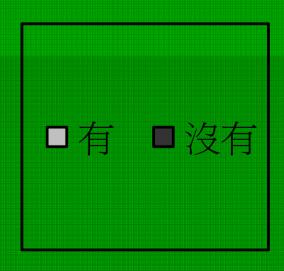


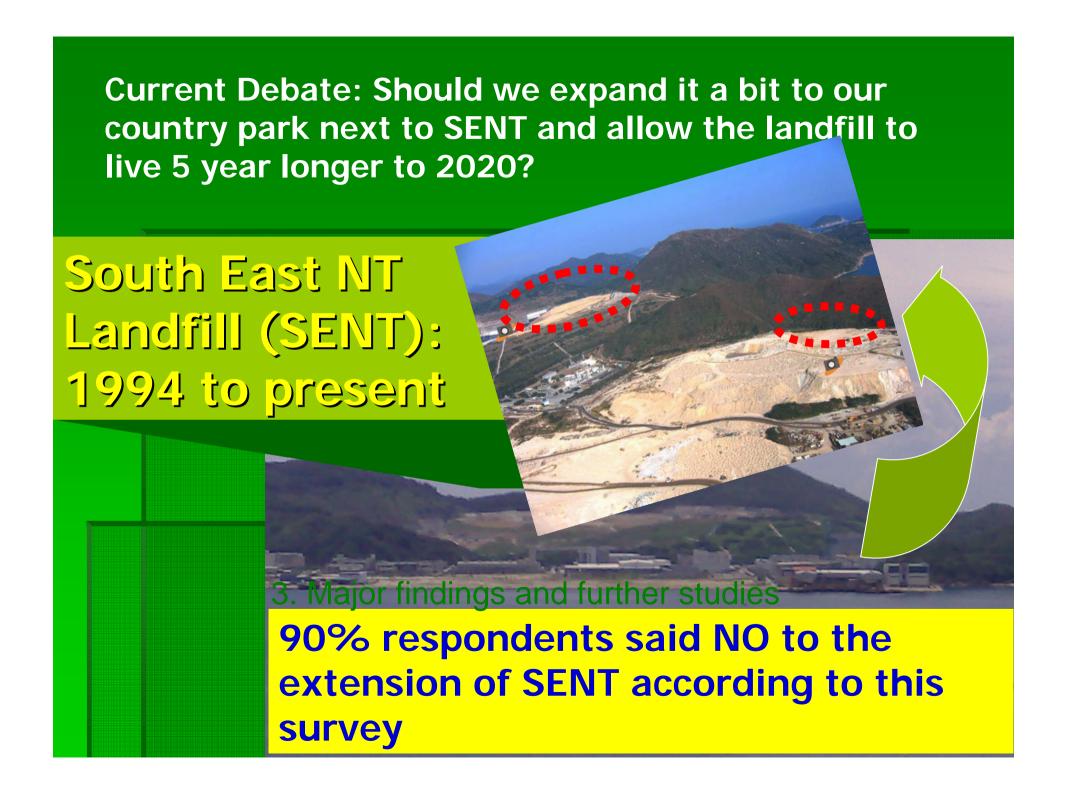
10・有沒有擔心堆塡區影響區內樓價?

Ever worried about the property prices are affected by the landfill?

76% said yes





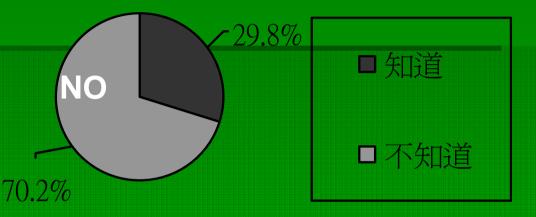


11. 是否知道堆填區將擴建至清水灣郊野公園?

Do you know about the extension of SENT to part of the CWB

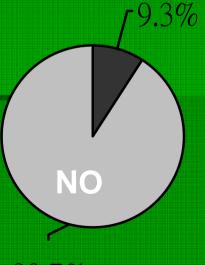
country Park?





12. 是否贊成以上政策

Do you agree with such extension policy? 90% said No.





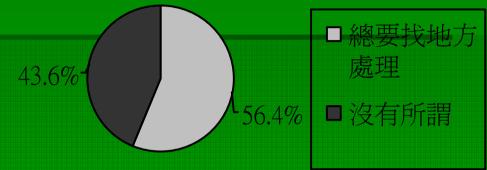
□不贊成

90.7%

- 1. A majority (90%) of the respondents do not agree to the extension plan for the SENT landfill, and they urge the government to improve its waste recycling capabilities.
- 2. Only 16% agreed with the use of incineration for MSW treatment.



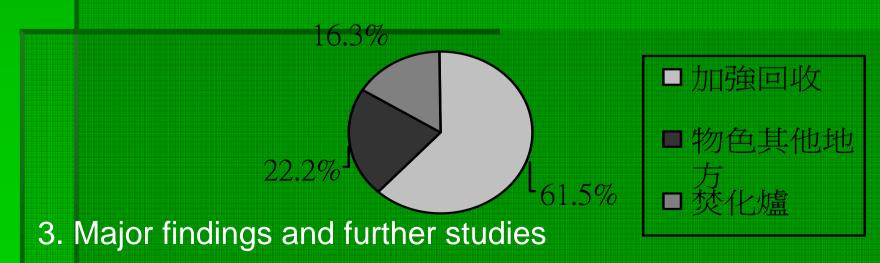
- 13. 爲甚麼贊成? Why would you agree with the extension?
- •廢物總要找地方處理 56.4% Got to find a place to handle the waste
- •沒有所謂 43.6% Doesn't matter



14. 爲甚麼不贊成?

Why don't you agree with such extension policy?

- •政府應加強廢物回收 61.5% The govt' should enhance waste recycling
- •政府應物色其他地方處理 22.2% The govt' should find some where else
- •政府應以焚化爐處理廢物 16.3% The govt' should use incineration



SUMMARY & CONCLUSIONS

- SENT landfill causes nuisances of odour and waste trucks to the residents of TKO.
- 90% respondents opposed the proposal of SENT extension; 60% urged for a better waste recycling scheme and only 16% agreed with using incineration for waste management.
- A reference distance of 5
 kilometres is suggested to be kept
 between residential areas and
 operating landfills.



Further studies:

- A survey focusing on the new development areas of TKO (TKO South and LOHAS Park) will be needed.
- Guidelines on the reasonable distance between operating landfills and residential areas should be formulated.
- Sewage sludge is being dumped to SENT causing the odour nuisances according to some government officials; a survey in 2008 will be carried out to learn if there is any improvement at all if the source is identified.

DISCUSSION

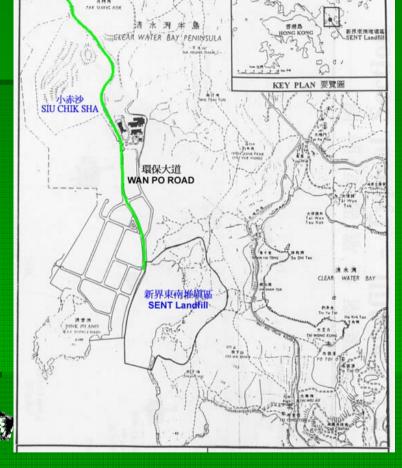
ALTERNATIVES:

Zero waste policy/zero landfill policy

Green Taxes and household trash fee for waste reduction

Better waste recycling facilities and composting facilities.

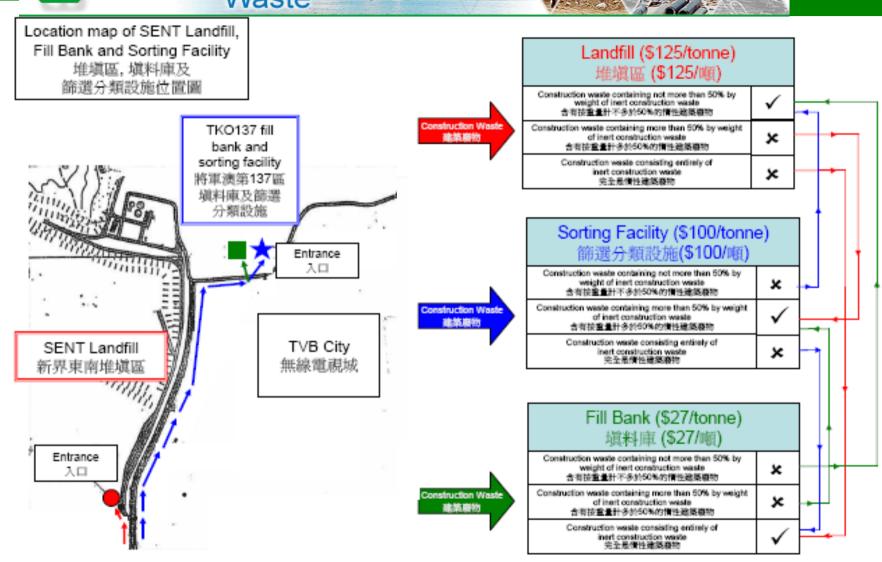
BANANA:



Build Absolutely Nothing Anywhere Near Anyone







Construction Wastes keep rising, mostly sent to the public fills = ocean dumping or land reclamation!

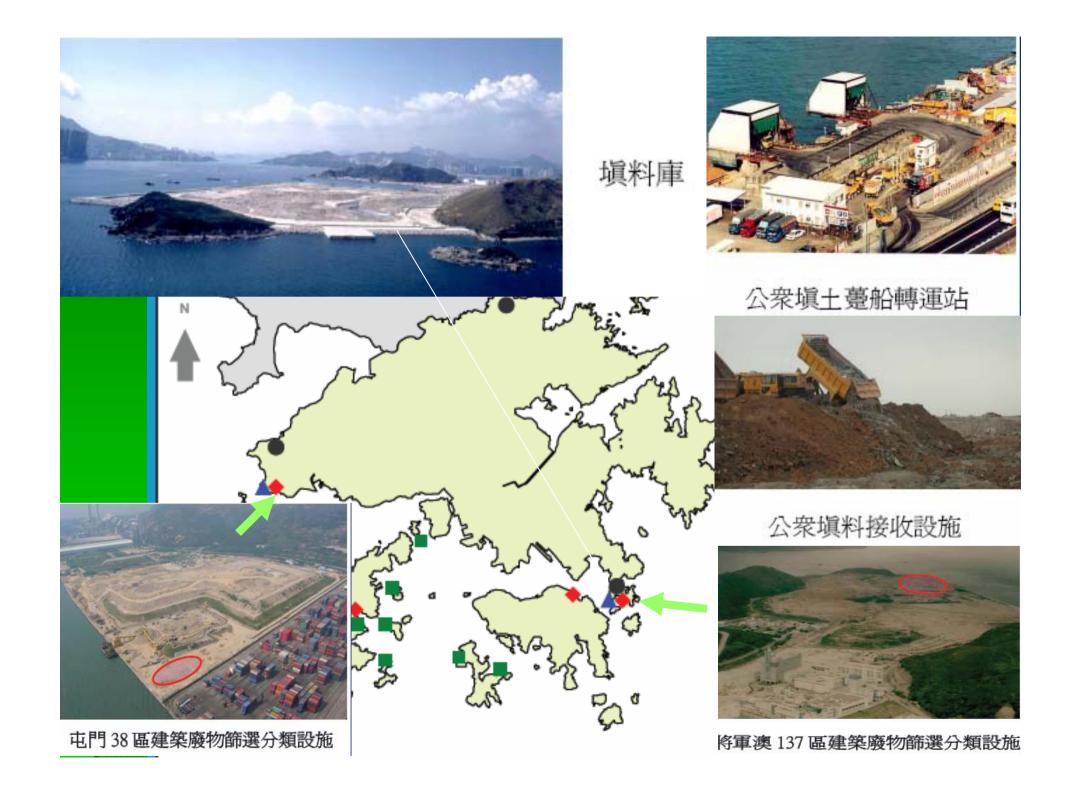
From Hong Kong to GuangDong.



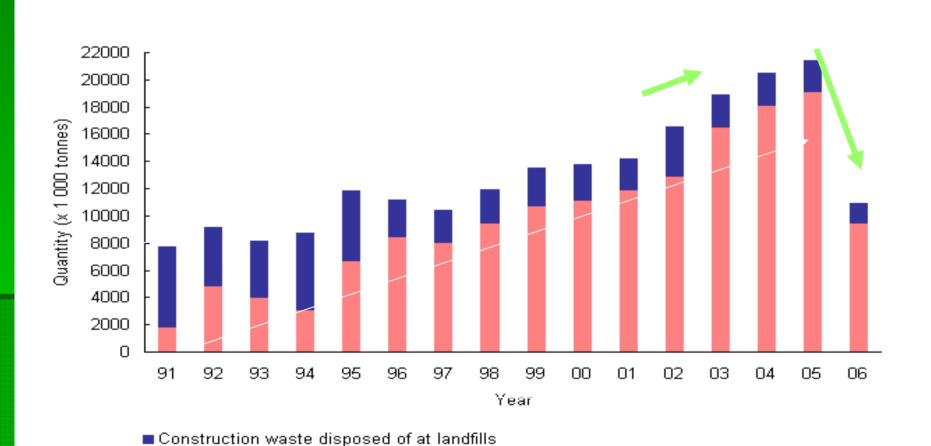
charging system to
"slow down" our C & D
wastes and efficient
sorting facility for better
reuse of C & D wastes
disposed of to landfills

Reuse of construction waste materials in mainland China

建築廢物分類處理設施 Construction Waste Sorting Facility



Quantities of Construction Waste (construction and demolition wastes) in 1991-2006



■ Public fill reused or received at public fill reception facilities

Wastes (annual) disposed off from 91 to 06

