

Role of 2nd year students of environmental health to waste and solid management by quartering method in Walailak university

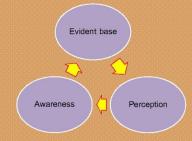
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Overview: Environmental health is the branch of public health concerned with all aspects of the natural and built environment affecting human health. Environmental health is focused on the natural and built environments for the benefit of human health. The major subdisciplines of environmental health are: environmental science; environmental and occupational medicine, toxicology and epidemiology. (https://en.wikipedia.org/wiki/Environmental_health

Aims and objectives

- 1. To practice skill waste and solid management in community .
- 2. To perceive and aware of people living in community to prevent and control waste in community.

Concept



Activities

In classroom

- 1.Lecture; quartering method, waste categories, material and method etc.
- 2. Demonstration
- 3. Assignment and responsibility

Out classroom

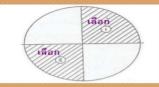
Planning to data collection for 5 days

Morning: Monday Friday, Saturday

Afternoon: Wednesday,Sunday

Quartering method













Evaluation

- Participatory i.g. peer review, group discussion (interptretation)
- Assighment i.g. presentation, report

Result

								- As	
		Waste and					Waste and		
		solid waste					solid waste per		
		per day					day (in		
Type of		(in Walailak u)		Total waste	Applicati		Walailak)	Price	Total
waste	Percentage			/day	on	1 year		(baht)	price/year
Plastic bag	24.80	5,000	100	1,240.00	Sale	365	452,600.00	2	905,200.00
Flastic bay	24.00		100		Sale	303	452,000.00		905,200.00
		5.000							
Paper	23.30	5,000	100	1,165.00	Sale	365	425,225.00	2	850,450.00
					Animal				
		5,000		1,070.00	feed/				
Food waste	21.40		100	1,070.00	Fertilizer	365	390,550.00	-	-
Plastic	10.30	5,000	100	515.00	Sale	365	187,975.00	2	375,950.00
T Idollo	10.00		100		Caio		107,070.00		070,000.00
		5,000		450.00					
Plastic bottle	9.00	0,000	100	450.00	Sale	365	164,250.00	2	328,500.00
Glass	6.90	5,000	100	345.00	Sale	365	125,925.00	2	251,850.00
	0.00	5,000	400	110.00		005	10 150 00		00 000 00
Can	2.20		100	110.00	Sale	365	40,150.00	2	80,300.00
					Burnt/				
Tube and	4.00	5,000	400	50.00	Landing	005	40.050.00		
plastic spoon	1.00		100		drum	365	18,250.00	-	
		5.000							
Wood	0.80	5,000	100	40.00	Burnt	365	14,600.00	-	-
Foam	0.20	5,000	100	10.00	Burnt	365	3,650.00	_	
Toam	0.20		100		Burnt/	303	3,030.00		
		5,000			Landing				
Cloth	0.10	5,000	100	5.00	drum	365	1,825.00		
Cloth	0.10		100		arum	300	1,825.00		

Out comes: The primary goals of sustainable waste management are to protect human health and the environment and to conserve resources. Additional goals include prevention of the export of waste related problems into the future (e.g. 'clean' cycles and landfills requiring little after care. and socially acceptable waste management practices.

Impact: Economic aspects are an important factor because money, in combination with available technology, is generally the limiting factor for a sophisticated, properly functioning waste management system. Economic aspects are mentioned on a business (micro-economic) level or on a public (macro-economic) level.

Future work: Based on the results of this review, we recommend the following considerations when assessing waste management systems: (i) a mass balance approach based on a rigid input—output analysis of the entire system, (ii) a goal oriented evaluation of the results of the mass balance, which takes into account the intended waste management objectives; and (iii) a transparent and reproducible presentation of the methodology, data, and results.

Selected references:

Brunner PH and Ernst WR (1986) Alternative methods for the analysis of municipal solid waste.

Waste Management & Research 4: 147–160.

Wilson DC, Smith NA, Blakey NC and Shaxson L (2007) Using researchbased knowledge to underpin waste and resources policy. Waste Management & Research 25: 247–256.