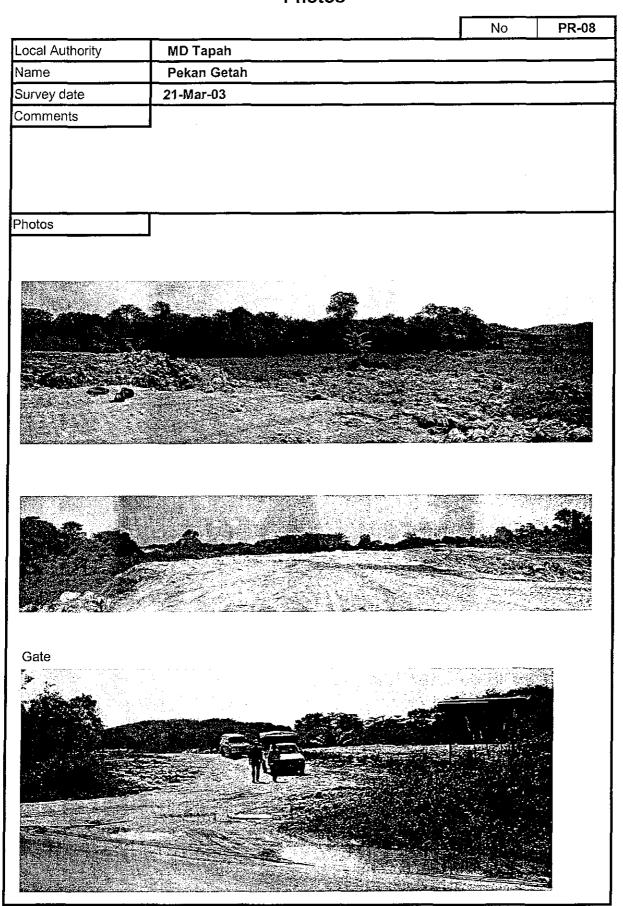
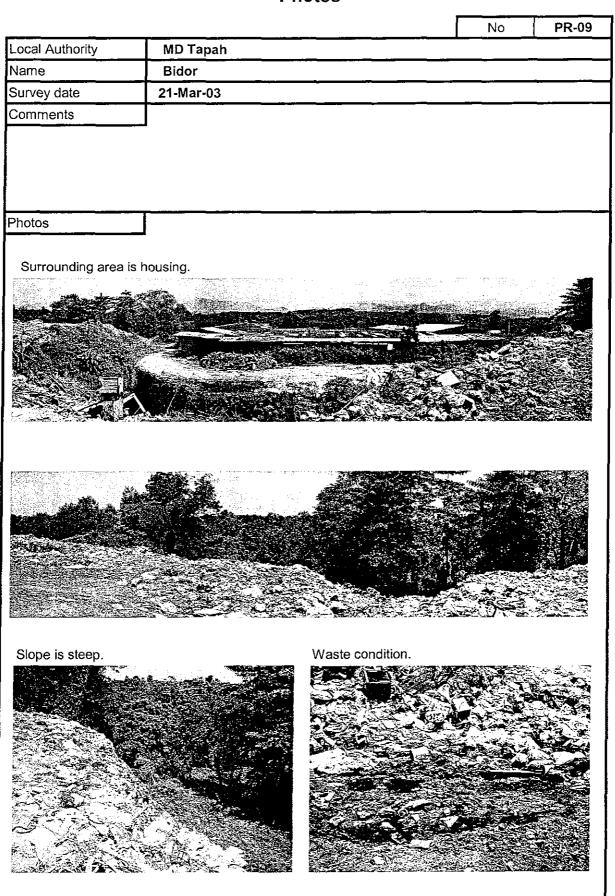
			State	Perak
			No.	PR-08
Basic Information	The second of the second		INO.	PK-00
Name of LA				<u> </u>
Name of Landfill	MD Tapah Pekan Geta	<u> </u>		·
Location of the Landfill				
Status of Landfill		an Getah, Tapah	ing Life Coop :	4)
	operation		ing Life Span:	1)
Year Start Operation	1985		ase Operation	P
Managed by	local author	•		
Land ownership	Governmen		11 - 55:	
Gazetted		permission from		
Area	21.5	···	isposed daily	40
Reasons for closure	developmer	nt at adjacent are	a	
Remarks				
	The state of the s			
Environmental Impact				
Landfill Level	Level 1			
Site Condition	flatland			
Waste Covered	yes		icy : twice a wee	ek)
Type of Vegetation	no vegetation			
Landslide	not noticeal			
Soil Subsidence	not noticeal			
Vector and animals		stray dogs & bird	ls)	
Odor, gas and smoke	noticeable			
Leachate Quantity	noticeable			
Location of Intake Point	no			
Distance from Intake Pt	- km)	<u> </u>		
Drinking Water Well	no .	·		
Geological Condition	sandy			•
No of complaints	yes		•	
(/year)				
dist. from Residential	<500m			
Remarks				
Land Utilisation after c	losure			
Existing Land Utilization		-		
Surrounding area		agriculture, ho	ousing	
Ultimate Landuse			Level : high us	e - housing)
Incl. in Local Developm	nent. Plan?	yes	<u> </u>	
Probability of Developme		most probably	,	
Distance from town cent		5-10km		
Remarks	. ,			

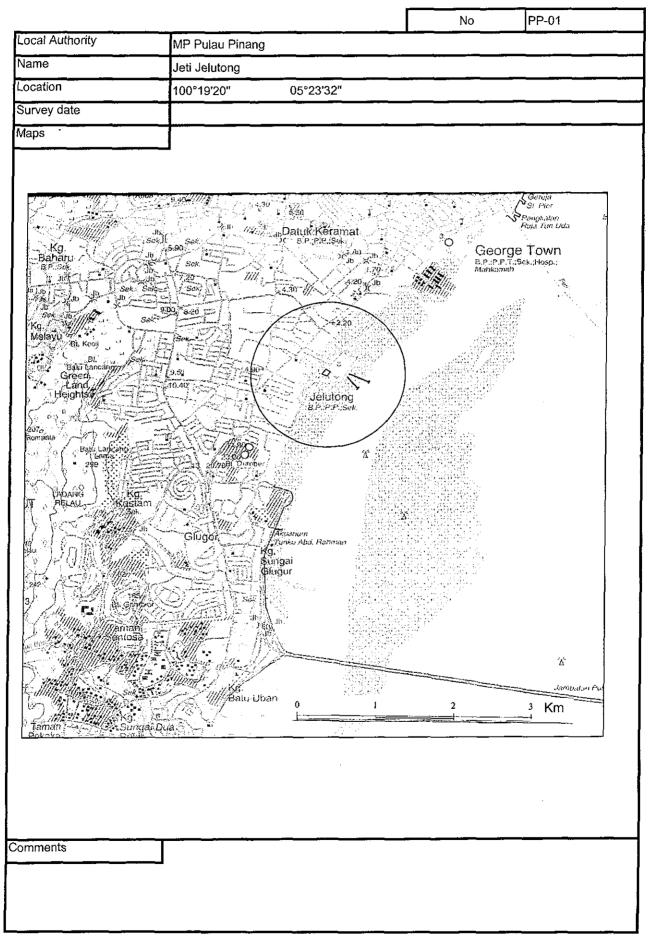


			State	Perak
			No.	PR-09
Basic Information			<u> </u>	
Name of LA	MD Tapah		<u></u>	
Name of Landfill	Bidor	·		
Location of the Landfill	Batu 4. Jala	n Bidor, Tapah		
Status of Landfill	operation		ing Life Span :	10 (but propose to close soon)
Year Start Operation	1980	Year Cea	ase Operation	-
Managed by	local author	rity		
Land ownership	Stateland		_	
Gazetted	no			
Area	2.13	Waste D	isposed daily	50
Reasons for closure	move to a i	new improved site		close soon, a new site
Remarks				
Environmental Impact	Conditions			
Landfill Level	Level 1	——————————————————————————————————————		
Site Condition	hilly			
Waste Covered	yes	(Frequen	cy : twice a wee	ek)
Type of Vegetation	no vegetation			
Landslide			hed down the	slope, 5-6m high, 70
	deg slope)			, , , , , , , , ,
Soil Subsidence	not noticea	ble		
Vector and animals	noticeable			
Odor, gas and smoke	noticeable			· · · · · · · · · · · · · · · · · · ·
Leachate Quantity	noticeable			
Location of Intake Point	no	······································		
Distance from Intake Pt	- km)			
Drinking Water Well	no			
Geological Condition				
No of complaints	yes	,		
(/year)	J			
dist. from Residential	<500m (200	m from hostels, p	olice squatters	;}
Remarks				
Land Utilisation after c	losure			
Existing Land Utilization		-		
Surrounding area		housing		
Ultimate Landuse		no (Level:-)	
Incl. in Local Developm		yes		
Probability of Developme		less probably		
Distance from town cent	re (km)	5-10km		
Remarks				
	_			



			State	Penang		
			No.	PP-01		
Basic Information	T."		·			
Name of LA	MP Pulau P					
Name of Landfill	Jeti Jeluton	-		,		
Location of the Landfill		Jelutong Express				
Status of Landfill	operation for waste only	o r bulky (Remaini	ng Life Span :	-)		
Year Start Operation	1980's	Year Cea	ase Operation	2001, except for bulky waste		
Managed by	local author	ity				
Land ownership	Governmen	Government				
Gazetted	-					
Area	20	Waste D	isposed daily	550		
Reasons for closure	developmer plant)	nt at adjacent are	ea (expresswa	ay & sewage treatment		
Remarks						
Environmental Impact	Conditions					
Landfill Level	Level 1	· · ·	•			
Site Condition	reclaimed la	and				
Waste Covered	yes		cy : daily)	······································		
Type of Vegetation	grasses and					
Landslide	medium					
Soil Subsidence	medium					
Vector and animals	1	stray dogs, many	flies, pigeon			
Odor, gas and smoke	i	odour, smoke)	oo, p.goo,	<u>'</u>		
Leachate Quantity	noticeable					
Location of Intake Point	1					
Distance from Intake Pt						
Drinking Water Well	no					
Geological Condition	sand	•				
No of complaints	·	dust flies)				
(/year)	yes (sinone)	, auot, illooj				
dist. from Residential	<500m (nea	rest squatters and	d new flats ab	t. 200m)		
Remarks	,	•		,		
Land Utilisation after o	locure					
		··				
Existing Land Utilization	<u> </u>	housing		·		
Surrounding area		housing	Toyol : low	(proposo uparado of		
Ultimate Landuse		- 1	andfill))	(propose upgrade of		
Incl. in Local Developn	ment. Plan?	yes (partially treatment plan		oressway and sewage		
Probability of Developm	ent	most probably				
Distance from town cent	•	<5km				
Remarks						
L						

Maps



No PP-01 MP Pulau Pinang Local Authority Jeti Jelutong Name 13-Mar-03 Survey date Comments Photos Surrounding area is used for residence. Leachate from the slope.

				State	Penang
				No.	PP-02
Basic Information		 -	- :	110.	11-02
Name of LA	MP Seberai	ng Perai	·		
Name of Landfill	Ampang Ja				
Location of the Landfill	Jalan Perm				
Status of Landfill	operation	<u> </u>		ng Life Span:	0.5)
Year Start Operation		raded in		se Operation	2003
	1989)			, so o p o camer,	
Managed by	local autho	rity			
Land ownership	local author	rity			
Gazetted	yes				
Area	17		Waste Di	sposed daily	400-450
Reasons for closure	reached the	life spa	n		
Remarks					_ _
		7.			
Environmental Impact				- · · · · · · · · · · · · · · · · · · ·	
Landfill Level	Level 3				
Site Condition	swampy are	a	/E	and a sheet	 -
Waste Covered	yes	l huabaa	(Frequenc	cy : daily)	
Type of Vegetation Landslide	grasses and	Dusnes			
Soil Subsidence	no				
Vector and animals	noticeable (wild mor		urrounding fo	
Odor, gas and smoke	noticeable (wiid iiioj	ineys at s	urrounding to	1651)
Leachate Quantity	noticeable				<u> </u>
Location of Intake Point	no				
Distance from Intake Pt	- km)				
Drinking Water Well	no		 -		
Geological Condition	-				
No of complaints	no			·	
(/year)					
dist. from Residential	>500m				
Remarks					
					
Land Utilisation after cl	osure				
Existing Land Utilization				·	
Surrounding area		recrea		oi, highway	
Ultimate Landuse		yes	(L	evel: low (par	k))
ncl. in Local Developm		yes			
Probability of Developme			probably		
Distance from town centr	e (km)	<5km			
Remarks					

Maps

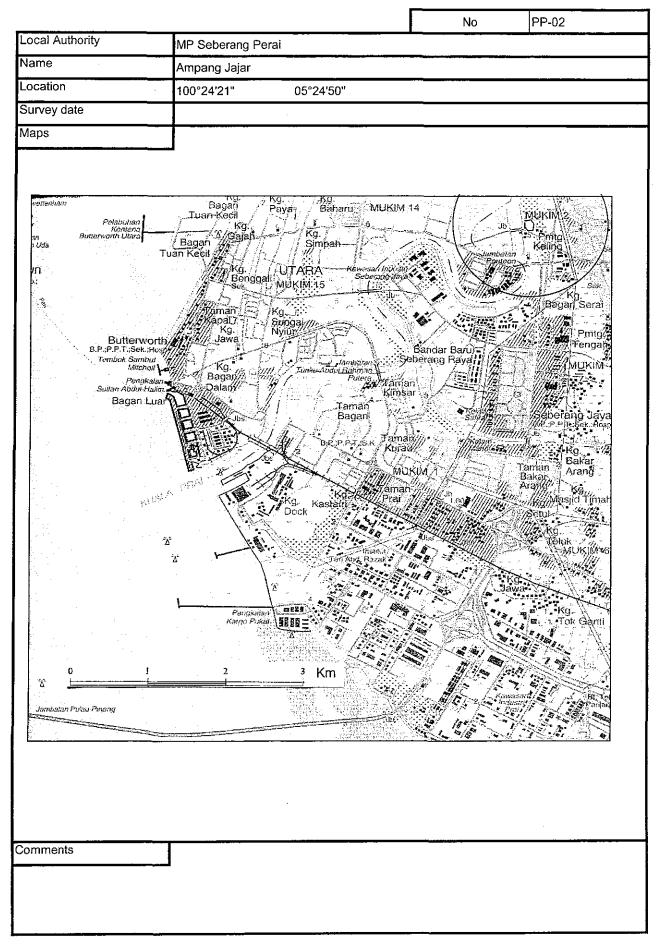


	Photo	S		
			No	PP-02
Local Authority	MP Seberang Perai			
Name	Ampang Jajar			
Survey date	14-Mar-03			
Comments				
	•			
Photos				
This site is adjoined	_ Lon highway			
File Site is adjunted	ron nighway. Szere e szazaren e ere ereten merz			
			Gas vent and	Bond.
	Ŧ			
Landscape				
				18.
7/2			1022	
Leachate Treatment	Looch	ate is seen in a trenc	h at scarcem	ent of slone
Leadhale Healment		are is seen in a neito	i at souloui	CITE OF STOP
STATE OF THE PARTY	. Leaci	many sample with the control of the		
t t	. Leau		eran eran eran eran eran eran eran eran	
	Leau			
	Leadi			

				Ctoto	Danana
				State	Penang
Basic Information				No.	PP-03
	MD Cahanan	Dana!			
Name of LA	MP Seberar				
Name of Landfill	Pulau Buro		D *		
Location of the Landfill	Mukim 11, S				
Status of Landfill	operation			ng Life Span :	6)
Year Start Operation	1980 (upgr 1994)	aded in	rear Cea	se Operation	-
Managed by	private com	pany			
Land ownership	Governmen	t	•		
Gazetted	yes				· · · · · · · · · · · · · · · · · · ·
Area	64	\	Naste Di	sposed daily	1200
Reasons for closure	-				
Remarks					
Environmental Impact	Conditions				
Landfill Level	Level 3				
Site Condition	swampy are	ea, mangr	ove		
Waste Covered	yes	(Frequen	cy : daily)	
Type of Vegetation	no vegetation				
Landslide	not noticeable				
Soil Subsidence	not noticeable				
Vector and animals	medium (wi	ld monke	ys)		
Odor, gas and smoke	medium				
Leachate Quantity	noticeable	<u></u>			
Location of Intake Point	no			·	
Distance from Intake Pt	- km)				
Drinking Water Well	no				
Geological Condition	clay				
No of complaints	no				
(/year)					
dist. from Residential	>500m		·		
Remarks					
Land Utilisation after c	losure	1.,			
Existing Land Utilization		-			
Surrounding area		mangr	oves		
Ultimate Landuse		no		Level:-)	
Incl. in Local Developn	nent. Plan?	no			
Probability of Developme	_	-			
Distance from town cent		>5km (6km fro	n Nibong Tek	pal)
Remarks		···-		-	

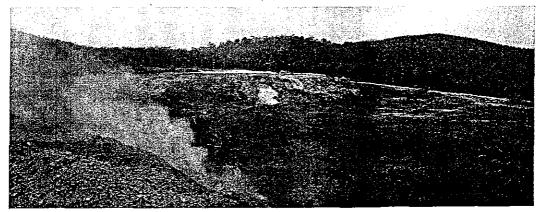
			0105			
					No	PP-03
Local Authority	MP Sebera	ang Perai				
Name	Pulau Bure	ong				
Survey date	14-Mar-03					
Comments					.	•
			•		•	
·						
Photos						
Landscape	en son en an antigonomies en an an			de de sinde de la company	elikorokano in managaran Parangan Parangan Parangan Parangan Parangan Parangan Parangan Parangan Parangan Para	
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ı						
Leachate Pond. Aerat	ion is done.					
						11/2
						AS TO SEE

		ļ	State	Kedah
			No.	KD-01
Basic Information		4	110.	
Name of LA	MP Kulim K	odah	<u> </u>	<u> </u>
Name of Landfill	Padang Cin	**************************************		
Location of the Landfill	Lot 1002 & '	•	<u> </u>	
Status of Landfill	operation		ng Life Span :	20)
Year Start Operation	1996		se Operation	_
Managed by	local author	· · · · · · · · · · · · · · · · · · ·	se Operation	
Land ownership	Governmen			
Gazetted		<u>. </u>		
	yes	Masta Di	angood deiby	460
Area Reasons for closure	56	vvaste Di	sposed daily	160
	-			
Remarks				
	<u></u>			
Environmental Impact	•		A HONE	<u> </u>
Landfill Level	open dumpi	ing		<u> </u>
Site Condition	hilly			
Waste Covered	yes		cy : as necessa	ary)
Type of Vegetation		tion in Block C		
Landslide		oulldozer fell in Bl	ock B)	
Soil Subsidence	medium			·
Vector and animals		flies in Block A, c)
Odor, gas and smoke		white smoke, sme	ell)	
Leachate Quantity	noticeable (v)		
Location of Intake Point	no			
Distance from Intake Pt	<u>- km)</u>			
Drinking Water Well	no			
Geological Condition	granite			
No of complaints	yes (nearby	industry complai	ned about sm	oke)
(/year)				
dist. from Residential	>500m (6km	from Tmn Sepilla	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Remarks				
Land Utilisation after c	losure			
Existing Land Utilization	loguic	_	<u> </u>	
Surrounding area		agriculture (oil	nalm estate)	
Ultimate Landuse		·	Level:-)	
Incl. in Local Developm	ent Plan?	no (i		
Probability of Developme				
		no >10km		
Distance from town cent	e (KIII)	/ IUKIII	<u> </u>	
Remarks		,		
			·	

		No	KD-01
Local Authority	MP Kulim Kedah		
Name	Padang Cina		
Survey date	15-Mar-03		
Comments			-

Photos

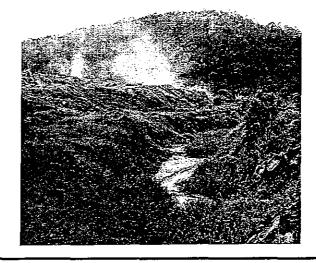
View of the site. Smoke can be observed around the area.



View of the site with no covering soil provided.



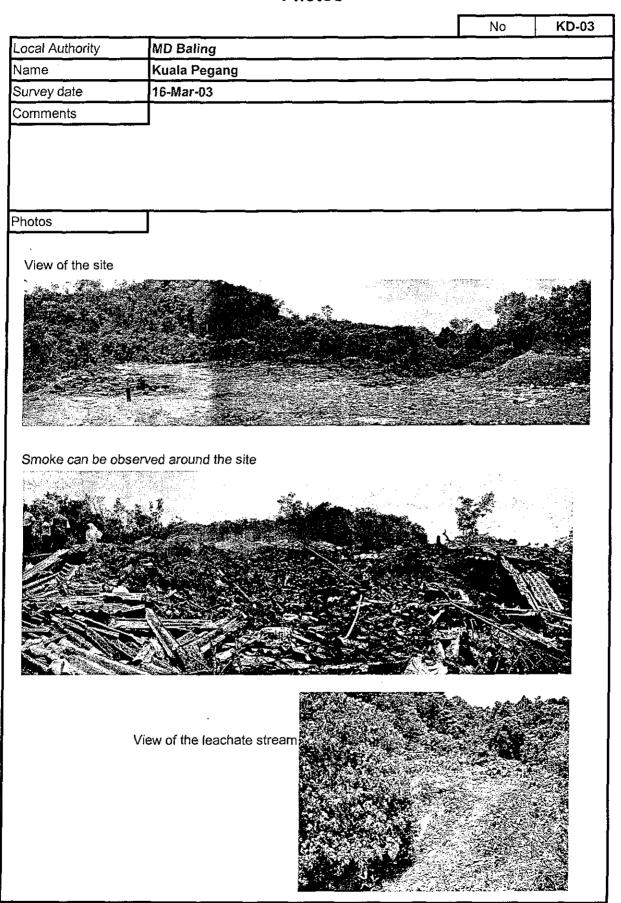
View of the leachate stream. Smoke can be observed.



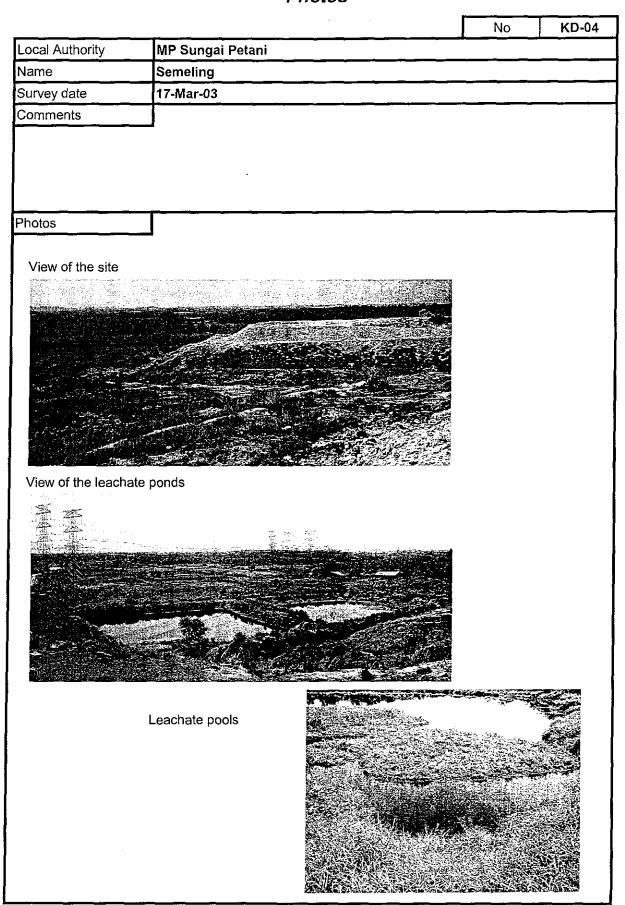
			State	Kedah		
			No.	KD-02		
Basic Information			I IVO.	ND-02		
Name of LA	T					
Name of Landfill	MD Baling Pulai			-		
	1	Jan Bambana Di	in: 00400 Pal			
Location of the Landfill		lan Rambong, Pu	•			
Status of Landfill	operation	T T	ng Life Span :	15)		
Year Start Operation	Jan 2001	•	ase Operation			
Managed by	local author	· • · · · · · · · · · · · · · · · · · ·				
Land ownership	local author	rity				
Gazetted	no	·		T		
Area	6.8	Waste Di	sposed daily	100		
Reasons for closure	-					
Remarks			·			
Environmental Impact	Conditions					
Landfill Level	Level 3		·			
Site Condition	hilly, swam	py area				
Waste Covered	yes		cy : as necessa	arv)		
Type of Vegetation	 '	grasses and bushes				
Landslide	T		out 5m high.	45deg, soil from within		
	site)	(J,			
Soil Subsidence	· ·	Ildozer subsided	3 times)			
Vector and animals	not noticea	ble				
Odor, gas and smoke	medium					
Leachate Quantity	noticeable					
Location of Intake Point	downstream	1				
Distance from Intake Pt	7km km)					
Drinking Water Well	<500m					
Geological Condition	granite					
No of complaints	yes (leacha	te found in downs	tream river (S	g. Bukit ljok))		
(/year)						
dist. from Residential	<500m					
Remarks						
				<u> </u>		
Land Utilisation after o			7 : " " " " " " " " " " " " " " " " " "			
Existing Land Utilization		-				
Surrounding area		agriculture (ru	bber, orchard)			
Ultimate Landuse		no (Level:-)			
Incl. in Local Developn	nent. Plan?	no		-, ·,,···· · ·		
Probability of Developm	ent less probably					
Distance from town cent	re (km)	5-10km (7km to	Pulai town)			
Remarks						

	Photos		
		No	KD-02
Local Authority	MD Baling		
Name	Pulai		
Survey date	16-Mar-03		
Comments			-
Photos	T		·····
	_		
View of the site. (Covering soil has been provided.		
View of the leacha	te pond with aeration system installed	Gas venting pipes	
Sales And Sales John			
			100

			State	Kedah
Basic Information	To the first of the second sec	÷	No.	KD-03
Name of LA	MD Baling	·		<u> </u>
Name of Landfill				
Location of the Landfill	Kuala Pega	-	. 00400 Kadah	
Status of Landfill		rai, Kuala Pegang		
	closed	· — · · · · · · · · · · · · · · · · · ·	ng Life Span:	-)
Year Start Operation	1989		se Operation	2002
Managed by	local author	пту		
Land ownership Gazetted	Stateland			
	no	har harata Di		400
Area	11 (use 3-4	•	sposed daily	100
Reasons for closure	move to a n	ew improved site		
Remarks				
Environmental Impact	Conditions		· · · · · · · · · · · · · · · · · · ·	
Landfill Level	open dump			
Site Condition	hilly, swam			····
Waste Covered	no	(Frequen	ich)	
Type of Vegetation	grasses and	•	. , , , , , , , , , , , , , , , , , , ,	
Landslide	not noticeal			**************************************
Soil Subsidence	not noticeal		-	
Vector and animals	medium (me			
Odor, gas and smoke	medium (wi			
Leachate Quantity	not noticeal	· · · · · · · · · · · · · · · · · · ·		·
Location of Intake Point	no			
Distance from Intake Pt	- km)		, · · ·	
Drinking Water Well	no			/ W
Geological Condition	-			
No of complaints	yes (fish die	ed)		
(/year)	3 (.	,		
dist, from Residential	<u>.</u> .			
Remarks				
Land Utilisation after c	losure	Electrical de la companya de la comp		
Existing Land Utilization		vacant		
Surrounding area		agriculture (ru	bber)	
Ultimate Landuse			Level:-)	**************************************
Incl. in Local Developm	nent. Plan?	no	, , , , , , , , , , , , , , , , , , , ,	
Probability of Developme		less probably	_	
Distance from town cent		<5km (3km fro	m K. Pegang)	
Remarks		(<u> </u>	



		i	Ctata		
			State	Kedah	
Basic Information		-	No.	KD-04	
Name of LA	MD Sungai		<u> </u>	<u> </u>	
Name of Landfill	MP Sungai	Petani			
	Semeling	line Destau			
Location of the Landfill		ling-Bedong		40)	
Status of Landfill	operation		ng Life Span :	10)	
Year Start Operation	1989		se Operation		
Managed by	local author	rity	.		
Land ownership	Stateland			<u> </u>	
Gazetted	yes		Т		
Area	51	Waste Di	sposed daily	500	
Reasons for closure	-		· 		
Remarks					
Environmental Impact	Conditions	**************************************			
Landfill Level	Level 1				
Site Condition	ex-mine				
Waste Covered	yes (Frequency : daily)				
Type of Vegetation	no vegetation				
Landslide	no (15m high, 40-50deg slope)				
Soil Subsidence	not noticeable				
Vector and animals	noticeable (
Odor, gas and smoke		odour, smoke)	_		
Leachate Quantity	noticeable	,			
Location of Intake Point	no			·	
Distance from Intake Pt	- km)				
Drinking Water Well	no				
Geological Condition	sand				
No of complaints	yes (about f	lies when there w	as no covering	a)	
(/year)	,			••	
dist. from Residential	>500m		<u> </u>		
Remarks					
Land Utilisation after c	losure				
Existing Land Utilization	10010	-	<u>···</u>	<u> </u>	
Surrounding area		agriculture (pal	m oil estatel	· <u></u>	
Ultimate Landuse	no (Level:-)				
Incl. in Local Development. Plan? no			· · · · · · · · · · · · · · · · · · ·		
Probability of Developme			(medical co	ollege is about 2-3km	
		still under cons	•		
Distance from town cent	re (km)			18km from Sg. Petani	
Remarks					
	_		<u>. </u>		



		Ţ	State	Kedah
			No.	KD-05
Basic Information				ND 00
Name of LA	MP Sungai	Petani		·
Name of Landfill	Jeniang			<u></u> .
Location of the Landfill		Bukit Selembau		
Status of Landfill	closed	**	ng Life Span :	-)
Year Start Operation	1985		se Operation	2001
Managed by	local author		<u> </u>	
Land ownership	Stateland			- · · · · · · · · · · · · · · · · · · ·
Gazetted	no			
Area	1.5	Waste Dis	sposed daily	5-10
Reasons for closure		ew improved site,		
Remarks				
Environmental Impact	Conditions		<u> </u>	
Landfill Level	open dump	ina		<u></u>
Site Condition	swampy are			· · · · · · · · · · · · · · · · · · ·
Waste Covered	Ves	•• ••		
Type of Vegetation	grasses and		cy : as necessa	ıı y <i>)</i>
Landslide	not noticeal			
Soil Subsidence	_	ble (abt. 3m high)	·	
Vector and animals	not noticeal			
Odor, gas and smoke	not noticeal		·	
Leachate Quantity	not noticeal			
Location of Intake Point	no	JIE		
Distance from Intake Pt	- km)	·-····	·	
Drinking Water Well	no			
Geological Condition	clay			_·
No of complaints	no			
(/year)	110			
dist. from Residential	>500m			···,
Remarks				
Land Utilisation after c	losure			
Existing Land Utilization		vacant		
Surrounding area		agriculture (rub	ber estate)	- <u> </u>
Ultimate Landuse			_evel:-)	
Incl. in Local Developm	nent. Plan?	no		
Probability of Developme		less probably		
Distance from town cent		<5km (5km fron	n Jeniang)	
Remarks				· · · · · · · · · · · · · · · · · · ·

		Г	No	KD-05
Local Authority	MP Sungai Petani			
Name	Jeniang			
Survey date	17-Mar-03			
Comments				
				
Photos				_
View of the close	ed site, covered with thick vegetation.			
VIEW OF THE GIOCO	d Site, covered what thick vogetation.	THE PERSON NAMED IN		
İ				
1				
I				

			Stata	Kadah	
			State	Kedah	
Pagia Information		e de la composición dela composición de la composición dela composición de la composición de la composición dela composición dela composición de la composic	No.	KD-06	
Basic Information					
Name of LA	MP Kota Se		-		
Name of Landfill	Bukit Tok B				
Location of the Landfill			···	, Daerah Pokok Sena	
Status of Landfill	operation		ng Life Span :	1)	
Year Start Operation	1985		se Operation	-	
Managed by	i	ity (subcontract t	o local contra	ctor)	
Land ownership	local author	ity	_ 	· · · · · ·	
Gazetted	yes				
Area	9.7	Waste Di	sposed daily	200	
Reasons for closure	reached the	life span			
Remarks					
Environmental Impact	Conditions				
Landfill Level	Level 2				
Site Condition	ex-mine				
Waste Covered	yes	(Frequen	cy : daily)		
Type of Vegetation	no vegetatio	n			
Landslide	noticeable (steep slope (70-80 deg), 15m high)				
Soil Subsidence	medium (during raining season)				
Vector and animals	noticeable (flies, cows, birds)			
Odor, gas and smoke	medium		_		
Leachate Quantity	noticeable (contained at surre	ounding pond	s and parameter ditch)	
Location of Intake Point	no				
Distance from Intake Pt	- km)				
Drinking Water Well	no				
Geological Condition	clay (white	lay observed at s	teep angle)		
No of complaints (/year)	no	•			
dist. from Residential	<500m (200)	n from a few hous	ses)¥		
Remarks					
Land Utilisation after c	losure	en de la companya de			
Existing Land Utilization	-	•			
Surrounding area		agriculture (rut	ober plantation	n)	
Ultimate Landuse	yes (Level: low)				
Incl. in Local Developm					
Probability of Developme					
Distance from town cent		>10km (16km f	rom Alor Seta	r)	
Remarks	- (mi)	ionni (ionni ii			

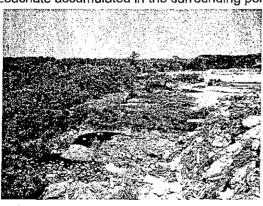
		No	KD-06
Local Authority	MP Kota Setar		
Name	Bukit Tok Bertandok		
Survey date	18-Mar-03		
Comments			

Photos

View of the site. Covering soil not provided



Leachate accumulated in the surrounding ponds.



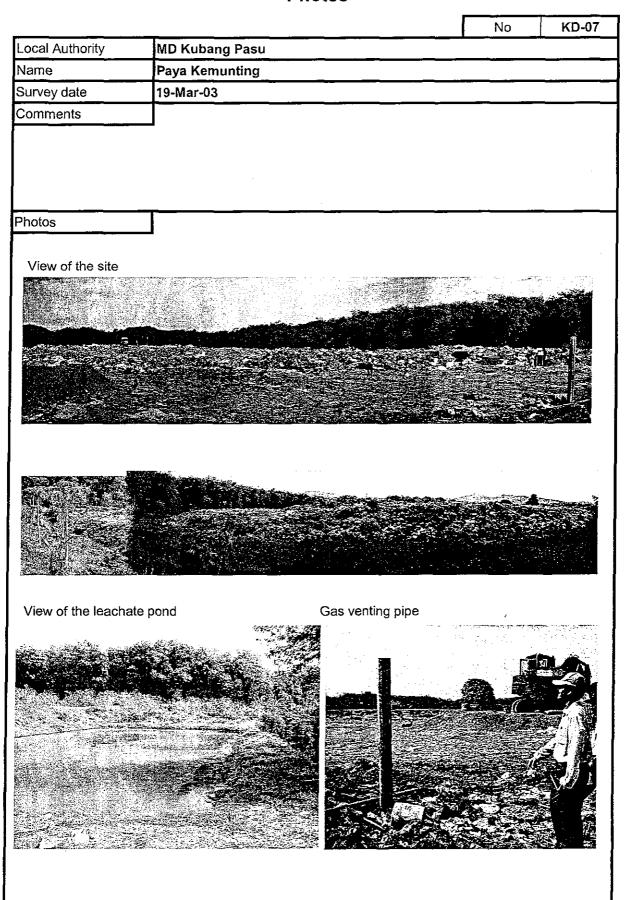
The leachate is black in colour.



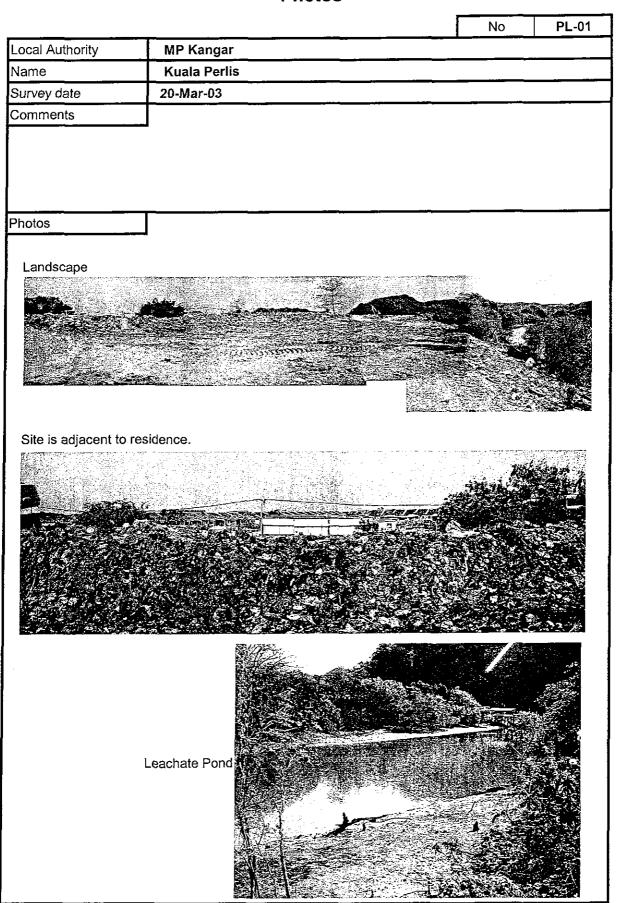
View of the site and the access road.



		Γ	Ctata	l/o dob		
			State	Kedah		
Basic Information			No.	KD-07		
Name of LA	MD Kubana		· · · · · · · · · · · · · · · · · · ·			
Name of Landfill	MD Kubang					
Location of the Landfill	Paya Kemu		n litua Kadal			
Status of Landfill	operation	Km 15, Paya Kemunting, 06000 Jitra, Kedah operation (Remaining Life Span : 1-2)				
	1					
Year Start Operation	·	1974 Year Cease Operation -				
Managed by Land ownership	local author					
Gazetted		ity				
Area	yes 5.03	Mosto Die	sposed daily	200		
Reasons for closure	-		sposed daily	200		
Remarks	<u>-</u>	·				
Incinains						
Environmental Impact	Conditions	and the second second				
Landfill Level	Level 2					
Site Condition	hilly, swam	py area				
Waste Covered	yes	-				
Type of Vegetation	no vegetatio	on				
Landslide	no (5m high	ı, slope abt. 50deg)			
Soil Subsidence	not noticea	ble				
Vector and animals	noticeable (flies, birds)		,		
Odor, gas and smoke	noticeable (odour, landfill gas	observed)			
Leachate Quantity	noticeable			**************************************		
Location of Intake Point			<u></u>	·····		
Distance from Intake Pt	- km)					
Drinking Water Well	no					
Geological Condition	-			·········		
No of complaints	no					
(/year)				•		
dist. from Residential	=		f hostel and	adminstrative building		
	is about 1kr	n away)				
Remarks						
Land Utilisation after c	losure					
Existing Land Utilization		<u> </u>				
Surrounding area		agriculture (rub	ber plantation	n)		
Ultimate Landuse			.evel : -)	, ,		
Incl. in Local Developm	nent. Plan?	no				
Probability of Development most probably (some development abt 1km away				pment abt 1km awav)		
Distance from town cent		5-10km (10km f				
Remarks	, ,	•				
		·				



		1	State	Perlis	
			-	PL-01	
Basic Information			No.	PL-U1	
Name of LA	MP Kangar		<u> </u>		
Name of Landfill	Kuala Perlis				
Location of the Landfill	Jalan Wai, 02000 Kuala Perlis				
Status of Landfill	operation (Remaining Life Span: 0)				
Year Start Operation	1983		se Operation	T -	
Managed by				2001, contract over, no	
	budget)	ity (out contract			
Land ownership	local author	rity		· · · · · · · · · · · · · · · · · · ·	
Gazetted	yes				
Area	20.53 (use 8	ha) Waste Di	sposed daily	120	
Reasons for closure	-			1	
Remarks					
				and the second	
Environmental Impact Landfill Level	i				
Site Condition	open dump	~	outh		
Waste Covered	<u> </u>	ea, near to river me			
Type of Vegetation	yes no vegetation		cy : as necessa	ary <i>)</i>	
Landslide	 	ble (abt. 3m high)			
Soil Subsidence	medium	ole (aut. Sin mgm)			
Vector and animals	noticeable				
Odor, gas and smoke		strong foul odour	due to stumb	ling of wasta)	
Leachate Quantity		y season, sign of			
Location of Intake Point	upstream	y season, sign or	icaciiate at iiv	cisidej	
Distance from Intake Pt		ıng Timah Tasu) k	.m)		
Drinking Water Well	no	ing milan rasu, k			
Geological Condition	_				
No of complaints	ves (small	smoke & flies)			
(/year)	yes (silien,	smore a mes,			
dist. from Residential	<500m (nea	rest residents is ju	ust 30m away	(iust completed))	
Remarks			<u></u>	<u>U-or completed)</u>	
· · · · · · · · · · · · · · · · · · ·					
Land Utilisation after c	losure				
Existing Land Utilization		-			
Surrounding area		housing, shrir Taman Bukit K	•	(nearby residents is	
Ultimate Landuse		yes (l	_evel : high)		
Incl. in Local Developn	ncl. in Local Development. Plan? yes				
Probability of Development most probably (development of skilled institution about 1km away)				t of skilled institution	
Distance from town cent	re (km)	within Kuala Pe			
Remarks					
			•		
					



Data Book 4

Result of Social Survey on Landfill Sites

CHAPTER 1 GENERAL VIEW AND RECOGNITION

For closures of landfill sites in developing countries, generally, it is considered that the closures have several negative impacts on social circumstances including public health. The principal receptors of the impacts may be people working at landfill sites and residents living around those sites. Therefore, with the aim of discussing and identifying the general view and recognition of social circumstances in Malaysia and possible social impacts would be caused by closures of landfill sites, social surveys consist of literature surveys and interview surveys with the people to be affected were done by the JICA study team in cooperation with MHLG in advance of elaborating a necessary action plan on the closures. As the result of the surveys, the following summarizes the discussions and identifications on the social circumstances and impacts.

1.1 RECEPTORS

Possible receptors to be impacted by closures of landfill sites are principally summarized in Table 1.1.1.

Table 1.1.1 Possible Receptors impacted by Closures of Landfill Sites

	-	Authorized Workers (Operators of Heavy Equipment, Drivers of Collection Vehicles,
At Landfill Sites		Recyclers, Scrap Dealers and so on)
		Scavengers
Vicinities of Landfill Sites	_=	Residential Households

The JICA Study Team

It can be generally considered that authorized workers may be appropriately evacuated and reemployed by any legal programs or schemes if authorities close landfills. Thus, in this study, the scavengers and households are assumed as the principal receptors.

1.2 SCAVENGERS

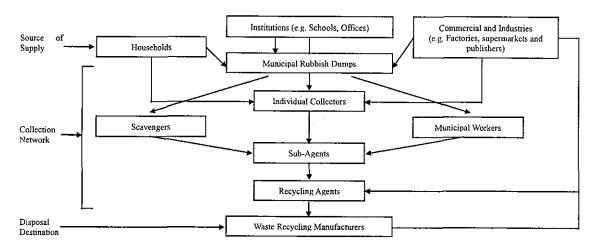
1.2.1 Definition

There is no official definition of scavengers in Malaysia at present. An academic paper entitled "Waste Recycling in Malaysia: Economics & Environmental Needs" (Mohd Nasir Hassaan et al. Universiti Putra Malaysis), however, defines scavenging and scavengers as follows:

- Scavenging refers to the informal practice of collecting saleable items from garbage at a waste disposal site and eventual reuse of the materials picked.
- Scavengers devote either part or most of their working time to foraging for saleable materials in the wastes.

1.2.2 Full-time Disposal Site Scavengers and Municipal Waste Collection Crew

In Malaysia, collection for recycling is carried out by both the full-time disposal site scavengers and the municipal waste collection crew (See Figure 1.2.1). The money earned from scavenging of recyclable waste material provides additional income to the collection crew. As the crews have easier access to recyclable materials generated from households than disposal site scavengers, the recyclable they collect have higher values. (Mohd Nasir Hassaan et al.)



Source: "Waste Recycling in Malaysia: Economics & Environmental Needs" Mohd Nasir Hassaan et al. Universiti
Putra Malaysis

Figure 1.2.1 Existing Waste Collection Network System

1.2.3 Illegal Action

"Local Government Act 1976 (Act 171) regulates local government activities in Malaysia. In accordance with the act 171, every municipal council respectively enacts a "By Law" by which collection, transportation and deposal of municipal solid waste is regulated. Namely municipalities have a responsibility for municipal solid waste management (MSWM) in each administrative boundary. Those "By Laws" enacted by municipality councils regulate activities on MSWM, one of which includes prohibition of entering landfill sites without permission. Accordingly, scavenging at landfill sites is prohibited and is regarded as an illegal action in Malaysia.

1.2.4 Present Situation of Scavengers

A few of data and studies related to scavengers are available in Malaysia at present. Therefore, it is difficult to figure out a general representation of scavengers working at landfill sites in whole of Malaysia. However, some of related information and data identify a part of the present situation of scavengers in Malaysia as follows.

(1) The Number of Scavengers

Table 1.2.1 shows a list of the number of scavengers at disposal sites by local authority. The list was prepared by a survey to the authorities with a questionnaire to identify solid waste recycling activities. Based on the data in the list, the following is understood.

- Half of the authorities answered for the question "are scavengers active at disposal sites?".
- It can be considered that nearly half of the authorities do not have any data and information on scavengers and/or did not answer for the question.
- The number of scavengers at disposal sites in each authority who answered "yes" for the question is not more than 30 people excluding *Majlis Perbandaran Sungai Petani* in which more than 50 scavengers were reported by the authority.
- Therefore, it can be estimated that the number of scavengers at a landfill site is not so many (most of the case is probably less than 30 scavengers).

Table 1.2.1 the Number of Scavengers at Disposal Sites by Local Authority (1)

States	Name of Local Authority	Are scaven	gers active at	posal Sites by Local Authority (1) Number of scavengers at disposal sites			
		- William Committee of the Committee of	al sites?	-20	30.20	7 71 50	- 50
	1 Majlis Bandaraya Johor Bahru	Yes	No No	<10	10-30	31-50	>50
	2 Majlis Perbandaran Patu Pahat				·		
	3 Majlis Perbandaran JB Tengah		1				
	4 Majlis Perbandaran Kluang	INTO THE PROPERTY OF THE PROPE	1				
	5 Majlis Perbandaran Muar						
	6 Majlis Daerah Kota Tinggi		1	√			
	7 Majlis Daerah Kulai		-	AL CANADA CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE			v.u.uuuu
<i>Johor</i>	8 Majlis Daerah Labis		ļ.,	1 1			
	9 Majlis Daerah Mersing				-		
	10 Majlis Daerah Pontian 11 Majlis Darerah Segamat				<u> </u>		
	12 Majlis Daerah Simpang Renggam		¥				
	13 Majlis Daerah Tangkak		 				
	14 Majlis Daerah Yong Peng						
	15 Lemb. Bandaran Johor Tenggara						
	16 PBT Pasir Gudang					1	JUIO DI LI INITATIONI IN
	1 Majlis Bandaraya Melaka		1 1				
Melaka	2 Majlis Daerah Alor Gajah		1				
	3 Majlis Daerah Jasin						
	1 Majlis Perbandaran Seremban	\ \ \ \		√	1	<u> </u>	
	2 Majlis Perbandaran Nilai			ļ		<u> </u>	
	3 Majlis Perbandaran Port Dickson			√			
V. S'bilan	4 Majlis Daerah Jelebu 5 Majlis Daerah Jempol		<u> </u>	<u> </u>	 ., -	 	
	6 Majlis Daerah Kuala Pilah			√ V	V		
	7 Majlis Daerah Rembau	<u>v</u>		·	l		
	8 Majlis Daerah Tampin		ļ	√			
	1 Majlis Perbandaran Kota Setar	 	- √	 			
	2 Majlis Perbandaran Sungai Petani	V	<u> </u>				V
 	3 Majlis Perbandaran Langkawi	1		V			
	4 Majlis Perbandaran Kulim	√			√		
	5 Majlis Daerah Baling		√				
(edalı	6 Majlis Daerah Bandar Baru	√ √		٧			
Cuun	7 Majlis Daerah Kubang Pasu						
	8 Majlis Daerah Padang Terap	1 1		√			
	9 Majlis Daerah Pendang			√			
	10 Majlis Daerah Sik	1 1		√ √			
	11 Majlis Daerah Yan 12 PBT Tonn Perindustrian Kulim	<u>v</u>		<u> </u>			
	1 Majlis Bandaraya Ipoh	 		-			
	2 Majlis Perbandaran Manjung		7				
	3 Majlis Perbandaran Taiping	7		7			
	4 Majlis Daerah Gerik						
	5 Majlis Daerah Hilir Perak	7			V		
	6 Majlis Daerah Kerian	√		V			
	7 Majlis Daerah Kinta Barat						
erak	8 Majlis Daerah Kinta Selatan	√	e.e.m.	√			
	9 Majlis Daerah Kuala Kangsar	1		7			
	10 Majlis Daerah Lenggong	<u> </u>		√			
	11 Majlis Daerah Pengkalan Hulu		٧				
	12 Majlis Daerah Perak Tengah						
	13 Majlis Daerah Selama						
	14 Majlis Daerah Tanjung Malim						
rlis	15 Majlis Daerah Tapah 1 Majlis Perbandaran Kangar	 					
rus		 					
Pinang	1 Majlis Perbandaran Pulau Pinang 2 Majlis Perbandaran Seberang Perai						
	1 Mailis Bandaraya Shah Alam	 			7		
	2 Majlis Perbandaran Ampang Jaya	ло disposal site					
	3 Majlis Perbandaran Kajang	no disposal site					
	4 Majlis Perbandaran Kelang	no disposal site					
	5 Majlis Perbandaran Petaling Jaya	no disposal site)		
	6 Majlis Perbandaran Selayang	√ √			√		
langor	7 Majlis Perbandaran Subang Jaya	no disposal site					
	8 Majlis Daerah Hulu Selangor						
i	9 Majlis Daerah Kuala Langat	\ \ \		v			
	10 Majlis Daerah Kuala Selangor	٧			V		
	11 Majlis Daerah Sabak Bernam	٧			7		
	12 Majlis Daerah Sepang	V		V			

Note: √ stands for "positive"

Source: MHLG

Table 1.2.1	the Number of Scavens	gers at Disposal Sites F	v Local Authority (2)
Lauic L.Z.I	the rulliner of Scavens	ects at Dispusat Sucs t	N Lucai Aumoriu (2

States	Name of Local Authority		ers active at al sites	No of scavengers at disposal sites			
_		Yes	No	<10	10-30	31-50	>50
	1 Majlis Perbandaran Kuantan		V				
	2 Majlis Perbandaran Temerloh		V				
	3 Majlis Daerah Bentong	V		√			
	4 Majlis Daerah Bera		√				
	5 Majlis Daerah Cameron Highlands	1		V			
Pahang	6 Majlis Daerah Jerantut	√		√			
runung	7 Majlis Daerah Lipis	√		√			
	8 Majlis Daerah Maran	√ √		7			
	9 Majlis Daerah Pekan	√		√			
	10 Majlis Daerah Raub			4			
	11 Majlis Daerah Rompin						
	12 LP Tionian	A CONTRACTOR OF THE CONTRACTOR					
	1 Majlis Perbandaran K. Terengganu	1		- V			
	2 Majlis Perbandaran Kemaman	7		√			
	3 Majlis Daerah Besut						
l'ganu	4 Majlis Daerah Dungun	1		7			
_	5 Majlis Daerah Hulu Terengganu	√		√ V			
	6 Majlis Daerah Marang		V				
	7 Majlis Daerah Setiu		√				
	1 Majlis Perbandaran Kota Bharu	7			4		
	2 Majlis Daerah Bachok						
	3 Majlis Daerah Gua Musang						
	4 Majlis Daerah Jeli						
	5 Majlis Daerah Kota Bharu	V			\ \	i i	
Kelantan	6 Majlis Daerah Kuala Krai Selatan		√				
eiantan	7 Majlis Daerah Kuala Krai Utara				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	8 Majlis Daerah Machang						
	9 Majlis Daerah Pasir Mas		i i				
	10 Majlis Daerah Pasir Puteh						
	11 Majlis Daerah Tanah Merah	7		√			
	12 Majlis Daerah Tumpat	V		V			
Total	100 (local authorities)	44	13	33	10	0	1

Note: √ stands for "positive"

Source: MHLG

(2) Present Activities

According to Mohd Nasir Hassaan et al., scavengers in disposal sites often depend solely on scavenging as their main source of income. They are often considered by municipality officials as a nuisance and are rarely considered as an integral component of solid waste management. Among the scavengers, competition is quite high and the working hours are long, usually up to ten hours per day depending on the arrival of the collection vehicles. Typically, a scavenger is equipped with an L-shaped metal rod with a pointed end. This is used to pick-up recyclable materials into a collection sack. A similar kind of instrument is also used in Bangkok (Butsapak, 1984), Jakarta (Harahap, 1984) and Manila (Baldisimo, 1985).

Table 1.2.2. At the MPPJ Kelana Jaya disposal site, the largest amount of recyclable materials collected was newspaper, while in Sungai Besi, it was plastic materials. These differences are likely due to socio-economic variations between the two populations and the number of institutions and commercial establishments in these areas. (Mohd Nasir Hassaan et al.)

Table 1.2.2 Average Quantity of Recyclable Materials Collected by Scavengers at Disposal Sites (kg/day)

Types of Wastes	Petaling Jaya	Kuala Lumpur	Petaling District
Bottle	1,056	500	300
Paper (mixed)	1,024	950	•
Newspaper	1,234	1,000	500
Plastics	1,438	6,000	_
Iron	176	1,500	300
Aluminum	187	1,500	30
Rubber	37	300	-

Source: "Waste Recycling in Malaysia: Economics & Environmental Needs" Mohd Nasir Hassaan et al. Universiti Putra Malaysis

1.3 RESIDENTIAL HOUSEHOLDS (POPULATION)

1.3.1 Ethnic Groups and Citizenship

(1) Ethnic Group Classification

The details of the ethnic composition for Malaysia in the 2000 census are shown in **Table 1.3.1**.

Table 1.3.1 Detailed Ethnic Group Classification, Malaysia, 2000

Malaysian Citizens	 	Malaysian	Citizens (Cont'd)
Bumìputera:		Chinese:	Hokkien
Malays	Malays		Khek (Hakka)
			Cantonese
Other Bumiputera	Negrito		Teochew
•	Senoi		Hainanese
	Proto Malay		Kwongsai
	Dusun		Foochow/Hokchiu
	Kadazan		Henghua
	Kwijau		Hokchia
	Bajau		Other Chinese
	Iranun		
	Murut (Sabah)	Indians:	Indian Tamil
	Orang Sungei		Malayli
	Sulu/ Suluk		Sikh/Punjabi
	Bisaya (Sabah/Sarawak)		Telegu
	Rungus		Sri Lankan Tamil
	Sino-native		Singalese
	Kadayan (Sabah/Sarawak)		Bangladeshi
	Tidong		Pakistani
	Tambanuo		Other Indian
	Idahan		
	Dumpas	Others:	Indonesian
	Mangkaak		Thai
	Minokok		Filipino
	Maragang		Myanmar
	Paitan		Japanese
	Rumanau		Korean
	Lotud		Other Asian
	Cocos Islander		Eurasian
	Other Bumpiputera (Sabah)		European
	Iban/ Dayak Lauk		Others
·	Bidayuh/ Dayak Darat		
	Melanau		
	Kenyah		
	Kayan		
	Lun Bawang/Murut (Sarawak)		
	Penan		
	Kajang		
	Kelabit		
	Other Bumiputera (Sarawak)	Non- Malay	sian Citizens

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

(2) Major Ethnic Groupings by Area

For the purpose of tabulations and analysis and taking into account the ethnic diversity between *Peninsular Malaysia*, Sabah (including *Wilayah Persekutuan Labuan*) and *Sarawak*, the major ethnic groupings were used as shown in **Table 1.3.2**.

Table 1.3.2 Major Ethnic Groupings by Area in Malaysia

Peninsular Malaysia	Sabah & Wilayah Persekutuan Labuan	Sarawak
Malaysian Citizens	Malaysian Citizens	Malaysian Citizens
Bumiputera	Malays	Malays
Malays	Kadazan Dusun	Iban'
Other Bumiputera	Bajau	Bidayuh
Chinese	Murut	Melanau
Indians	Other Buniputera	Other Bumiputra
Others	Chinese	Chinese
	Others	Others
Non- Malaysian Citizens	Non- Malaysian Citizens	Non- Malaysian Citizens

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

1.3.2 Demographic Statistics

As shown in **Table 1.3.1** and **1.3.2**, the Malaysia people come from a number of different ethnic groups.

According to demographic statistics by state of Malaysia in 2000 shown in **Table 1.3.3**, 94.1 % of the people of Malaysia was Malaysian citizens and the reminder of 5.9% was ethnic group composition of Malaysian citizens in 2000. 65.1 % of the population was *Bumiputera* (sons of the soil) that consists of *Malays* (53.4%) and Other *Bumiputera* (11.7%), followed by *Chinese* (26.0%) and *Indians* (7.7%).

Table 1.3.3 Demographic Statistics by State

State	Area	Total population	State distribution	Urban population	Malaysian citizens	Ethnic group composition of Malaysian	Bumiputera	Malays	Other Bumiputera	Chinese	Indians	Others
	(km²)	(people)	(%)	(%)	(%)	citizens (%)	(%)	(%)_	(%)	(%)	(%)	(%)
Jahor	18,987	2,740,625	11.8	65.2	94.5	5.5	57.1	55.7	1.4	35.4	6.9	0.6
Kedah	9,425	1,649,756	7.1	39.3	98.4	1.6	76.6	76.4	0.2	14.9	7.1	1.4
Kelantan	15,024	1,313,014	5,6	34.2	98.4	1.6	95	94.2	0.8	3.8	0.3	0.9
Melaka	1,652	635,791	2.7	67.2	96.4	3.6	63.8	62.7	1.1	29.1	6.5	0.6
Negeri Sembilan	6,644	859,924	3.7	53.4	96.3	3.7	57.9	56.6	1.3	25.6	16	0.6
Pahang	35,965	1,288,376	5.5	42.0	95.7	4.3	76.8	71.8	5.0	17.7	5.0	0.6
Perak	21,005	2,051,236	8.8	58.7	98.1	1.9	54.7	52.4	2.3	32	13.0	0.3
Perlis	795	204,450	0.9	34.3	98.5	1.5	85.5	85.2	0.3	10.3	1.3	2,9
Pulau Pinang	1,031	1,313,449	5.6	80.1	96.3	3.7	42.5	42.1	0.3	46.5	10.6	0.4
Sabah	73,619	2,603,485	11.2	48.0	76.4	23.6	80.5	15.3	65.3	13.2	0.5	5.8
Saranrak	124,450	2,071,506	8.9	48.1	97.0	3.0	72.9	23	49.8	26,7	0.2	0.2
Selangor	7,960	4,188,876	18.0	87.6	95.5	4.5	53.5	52,1	1.4	30.7	14,6	1.1
Terengganu	12,955	898,825	3.9	48.7	98.2	1.8	96.8	96.5	0.3	2.8	0.2	0.2
W.P. K.L	243	1,379,310	5.9	100	93,3	6.7	43.6	42.7	0.9	43.5	11.4	1.5
W.P. Labuan	92	76,067	0.3	77.7	78.8	21.2	79.6	48.4	31.2	15.8	1.3	3.3
Malaysia	329,847	23,274,690	100	62	94.1	5.9	65,1	53.4	11.7	26	7,7	1.2

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

1.3.3 Educational Status

(1) Education System

The "Educational Act, 1961, Ministry of Education", regulates compulsory education in Malaysia. The educational system (primary and secondary) of Malaysia is similar to the British as shown in **Table 1.3.4**. The educational language is *Bahasa Malaysia*. As second languages, English is taught, as also is Chinese in Chinese-run primary schools and Tamil in Tamil-run primary schools.

Table 1.3.4 Primary and Secondary Education

Category	School Age	Compulsory or Not
Pre-school	Start at 6 years Old	Not Compulsory
Primary School	From 7 years old to 12 years old	Compulsory
Secondary School	From 13 years old to 17 years old	Compulsory

Source: Ministry of Education Malaysia

(2) School Attendance

At the national (*Malaysia*) level, school attendance was observed that 92.7% of the male population aged 6years and over had ever been to school compared to 87.6% for females in census 2000 as shown in **Table 1.3.5**. This represented a narrowing in the gap between the sexes when compared to census 1991 where these percentages stood at 88.4% for males and 79.8% for females. In other words, the sex differential in the proportion of those ever been to school in favour of males declined from 9 % points in 1991 to 5% points in 2000. *

Table 1.3.5 School Attendance Rate (%)

			<u> </u>
		1991	2000
Male	(Aged 6years and over)	88.4	92.7
Female	(Aged 6years and over)	_ 79.8	87.6

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

The pattern recorded at the national level in census 2000 was repeated at the state level whereby the percentage of male population aged 6 years and over ever been to school was higher than that of the females in every state; the sex differential in the percentage point being in the range of 2.8 (Wilayah Persekutuan Kuala Lumpur) and 8.8 (Sarawak).*

As expected, census 2000 also revealed that the more urban states such as Wilayah Persekutuan Kuala Lumpur, Selangor and Pulau Pinang recorded the highest percentages (both for males and females). On the other hand, among the states that recorded the lowest percentage (both for males and females) were Sabah, Sarawak and Wilaya Persekutuan Labuan.*

(3) Educational Attainment

Information on educational attainment collected in the 2000 census referred to the highest level of schooling attained whether it be school, primary, secondary or higher education. The percentage of Malaysian citizens aged 20 years and over with higher education increased from 8.9% in 1991 to 16.0% in 2000. This pattern was also observed for all the major ethnic groups; for Malays it increased from 10.3% to 17.3%

while for the Chinese the increase was from 9.0% to 16.5% and Indians from 7.6% to 13.0% over the 1991-2000 period as shown in Table 1.3.6*

Table 1.3.6 Educational Attainment Rate (%)

	1991	2000
Malaysian citizens aged 20 years and over	8.9	16.0
Malays	10.3	17.3
Chinese	9.0	16.5
Indian	7.6	13.0

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

(4) Literacy Rate

The literacy rate among Malaysian citizens aged 10-64 years improved from 88.6% in 1991 to 93.5% in 2000, thus representing an increase of about 5 % points over the 1991-2000 period. In census 2000, the literacy rate in the urban areas was higher at 96.1% compared to rural areas which recorded a rate of 89.1%; the urban-rural differential being 7.0% points. *

Table 1.3.7 Literacy Rate of Malaysia (%)

	1991	2000
Malaysian citizens aged 10-64 years old	88.6	93.5
Urban Area	-	96.1
Rural Area	-	89.1

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

A comparison of the literacy rates at the state level revealed that there was an increase in the literacy rate for all states between 1991 to 2000, the biggest being for the state of Sabah where literacy increased from 79.3% to 86.5% that is an increase of 7.5% points over the 1991-2000 period while the lowest increase was recorded for Pahang, Negeri Sembilan and Wilayah Persekutuan Kuala Lumpur at 3.4% points each. The states with the highest literacy rates in 1991 continued to record high rates in 2000. Wilayah Persekutuan Kuala Lumpur, which experienced the highest literacy rate at 94.1% in 1991, also recorded the highest rate in 2000 at 97.5%. Selangor maintained its second position recording a rate of 93.1% in 1991, which increased to 97.0% in 2000.*

Table 1.3.8 Literacy Rate by State (%)

1991	2000
94.1	97.5
93.1	97.0
79.3	86.5
	94.1 93.1

Source: "Education and Social Characteristics of the Population, Population and Housing Census of Malaysia 2000", Department of Statistics Malaysia

1.4 HEALTH SITUATION

According to Ministry of Health Malaysia (*Annual Report 1999*), there are 27 notifiable diseases in Malaysia under Act 342, Prevention and Control of Infectious Disease Act 1998. Of 27 notifiable diseases, 9 are required to be notified within 24 hours while the rest by one week. In 1998, the authority to compound (Section 25 of Act 342) was

delegated to the Medical Officers of Health at the State and District levels. Table 1.4.1 shows incidence of notifiable communicable disease in Malaysia from 1995-1999.

Table 1.4.1 Incidence of Notifiable Communicable Disease in Malaysia, 1995-1999

Disease / Year	1995	1996	1997	1998	1999
HIV (All Forms)*	4,431 (165)	4,944 (271)	4,492 (473)	5,499 (689)	4,692 (874)
Cholera	2,209 (27)	1,486 (2)	380 (5)	1,304 (19)	536 (9)
Dengue Fever**	6,156	13, 723 (2)	18,642 (3)	26,240 (5)	9,602 (6)
Dengue Hemorrhagic Fever**	3,872 (28)	532 (30)	787 (49)	1,133 (53)	544 (31)
Diphtheria	ĺ	Ò	2(1)	5 (1)	6(1)
Dysentery (All Types)	152	121	132	246	429
Food Poisoning	1,438 (3)	3,236	6,734	6,976 (3)	8,640 (3)
Leprosy#	311	273	277	236	224
Malaria**	59,208 (35)	51,921 (40)	26,649 (25)	13,491 (27)	11,106 (21)
Measics	654 (6)	460 (4)	565	483	2,603 (10)
Plague	Ó	0	0	0	0
Poliomyelitis, Acute	0	0	0	0	0
Rabies	0	5	7 (3)	(1) 1	0
Relapsing Fever	0	0	0	0	1
Chancroid"	5	6	4	18	9
Gonoccocal Infections (All Forms) "	2,157	1,772	1,393	1,307	2,232
Syphilis (All Forms)"	1,941	1,562	1,317	2,460	2,150
Tetanus - Adult	12 (2)	9(1)	13 (2)	6	16
- Neonatorum	27 (4)	23 (3)	15 (1)	13 (4)	10 (20)
Tuberculosis (All Forms)	11,778 (844)	12,691 (915)	13,539 (978)	14,115 (1,059)	14,908 (1,191)
Typhoid & Paratyphoid Fever	906 (8)	953 (9)	701 (3)	782 (3)	811 (2)
Typhus & Other Rickettsiosess	177	108	83	56	68
Viral Encephalitis	7	18 (3)	12 (1)	64 (14)	301 (101)
Viral Hepatitis	1,078	1,581 (1)	714	5,410 (3)	6,014 (1)
Hepatitis A	419	849	341	240	319
Hepatitis B	551	627 (1)	307	5,010 (3)	5,295 (1)
Hepatitis C	48	33	43	136	257
Hepatitis Others	60	72	23	24	143
Whooping Cough	8	7	3	6	17
Yellow Fever	0	0	0	0	0
Ebola	NA	0	0	0	0
Myocarditis (Hand, Food & Mouth Disease)	NA	NA	5,999 (42)	922	434(1)
Any other life threatening microbial infection	NA	NA	0	0_	0

Note Death Case () -TB death: Death while on treatment Not Available

Source:

1. AIDS/STD Section 2. Vector-borne Disease Control Programme

3. National Leprosy Control Programme

4. National Tuberculosis Control Programme 5. Formal Epid 206/207

Source: "Annual Report 1999", Ministry of Health Malaysia