

## ***TABLES***

Table IX-1 Results of Water Quality Sampling in Sg. Air Mendidih Basin

Parameter	AM(1)	AM(2)	AM(3)	AM(4)	AM(5)
PH	6.7	6.1	5.9	5.2	4.5
BOD* 5 days@20°C, mg/1	8	3	6	12	35
COD, mg/1	38	13	19	57	139
Suspended Solids, mg/1	90	16	15	10	13
Mercury as Hg, mg/1	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)
Cadmium as Cd, mg/1	ND(<0.003)	ND(<0.003)	ND(<0.003)	ND(<0.003)	ND(<0.003)
Cyanide as CN, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Lead as Pb, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Copper as Cu, mg/1	ND(<0.003)	ND(<0.003)	ND(<0.003)	ND(<0.003)	0.004
Manganese as Mn,mg/1	0.100	0.061	0.031	0.050	0.039
Nickel as Ni, mg/1	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Tin as Sn, mg/1	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Boron as B, mg/1	1.0	ND(<0.1)	ND(<0.1)	ND(<0.1)	ND(<0.1)
Iron as Fe, mg/1	0.41	2.77	2.77	3.27	1.58
Phenol, mg/1	0.006	0.006	0.015	0.010	0.018
Free Chlorine as Cl <sub>2</sub> , mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Sulphide as S <sup>2-</sup> , mg/1	ND(<0.1)	ND(<0.1)	ND(<0.1)	ND(<0.1)	ND(<0.1)
Oil & Grease, mg/1	ND	ND	ND	ND	ND

The location of the sampling sites are shown in Fig. IX-1

Table IX-2 Results of Water Quality Sampling in Line G Basin

Parameter	LG(1)	LG(2)	LG(3)	LG(4)	LG(5)
PH	6.6	6.8	6.5	6.5	5.8
BOD* 5 days@20°C, mg/1	26	3	2	20	2
COD, mg/1	104	13	13	66	13
Suspended Solids, mg/1	52	12	36	21	17
Mercury as Hg, mg/1	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)
Cadmium as Cd, mg/1	ND(<0.003)	ND(<0.003)	ND(<0.003)	ND(<0.003)	ND(<0.003)
Cyanide as CN, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Lead as Pb, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Copper as Cu, mg/1	0.009	0.003	0.020	0.004	0.026
Manganese as Mn,mg/1	0.036	0.023	0.080	0.218	0.010
Nickel as Ni, mg/1	ND(<0.01)	0.01	ND(<0.01)	ND(<0.01)	ND(<0.01)
Tin as Sn, mg/1	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Boron as B, mg/1	0.2	ND(<0.1)	ND(<0.1)	ND(<0.1)	0.1
Iron as Fe, mg/1	1.03	0.74	2.05	2.47	2.49
Phenol, mg/1	0.014	0.007	0.014	ND(<0.001)	0.006
Free Chlorine as Cl <sub>2</sub> , mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Sulphide as S <sup>2-</sup> , mg/1	0.4	0.1	ND(<0.1)	ND(<0.1)	ND(<0.1)
Oil & Grease, mg/1	ND	ND	ND	ND	ND

The location of the sampling sites are shown in Fig. IX-2

Table IX-3 Results of Water Quality Sampling in Prt. Pokok Mangga Basin

Parameter	PM(1)	PM(2)	PM(3)	PM(4)	PM(5)
pH	7.6	6.8	6.8	6.7	6.5
BOD* 5 days@20°C, mg/1	26	37	42	2	18
COD, mg/1	134	115	141	10	54
Suspended Solids, mg/1	932	41	42	8	88
Mercury as Hg, mg/1	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)
Cadmium as Cd, mg/1	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Cyanide as CN, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Lead as Pb, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Copper as Cu, mg/1	0.008	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Manganese as Mn,mg/1	0.18	0.08	0.07	ND(<0.02)	0.07
Nickel as Ni, mg/1	0.18	0.02	0.02	ND(<0.02)	ND(<0.02)
Tin as Sn, mg/1	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Boron as B, mg/1	1.1	.2	0.1	ND(<0.1)	0.1
Iron as Fe, mg/1	7.32	1.57	1.72	0.12	4.18
Phenol, mg/1	ND(<0.001)	0.010	0.019	0.005	0.004
Free Chlorine as Cl <sub>2</sub> , mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Sulphide as S <sup>2-</sup> , mg/1	ND(<0.1)	0.3	0.7	ND(<0.1)	0.1
Oil & Grease, mg/1	ND	ND	ND	ND	ND

The location of the sampling sites are shown in Fig. IX-3

Table IX-4 Results of Water Quality Sampling in Sg. Ayer Salak Basin

Parameter	AS(1)	AS(2)	AS(3)	AS(4)	AS(5)
pH	6.3	3.9	6.7	6.8	6.4
BOD* 5 days@20°C, mg/1	7	4	17	25	12
COD, mg/1	22	13	54	96	45
Suspended Solids, mg/1	85	10	24	602	472
Mercury as Hg, mg/1	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)	ND(<0.001)
Cadmium as Cd, mg/1	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Cyanide as CN, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Lead as Pb, mg/1	ND(<0.02)	0.08	ND(<0.02)	0.02	ND(<0.02)
Copper as Cu, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	0.06	0.02
Manganese as Mn,mg/1	0.06	0.12	0.12	0.15	0.12
Nickel as Ni, mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Tin as Sn, mg/1	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Boron as B, mg/1	0.1	0.1	0.3	0.2	0.3
Iron as Fe, mg/1	1.50	1.15	1.47	8.27	8.66
Phenol, mg/1	0.008	0.028	0.025	0.029	ND(<0.001)
Free Chlorine as Cl <sub>2</sub> , mg/1	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Sulphide as S <sup>2-</sup> , mg/1	ND(<0.1)	ND(<0.1)	ND(<0.1)	ND(<0.1)	ND(<0.1)
Oil & Grease, mg/1	ND	ND	ND	ND	ND

The location of the sampling sites are shown in Fig. IX-4

Table IX-5 Community Perception of the Project in Sg. Petani

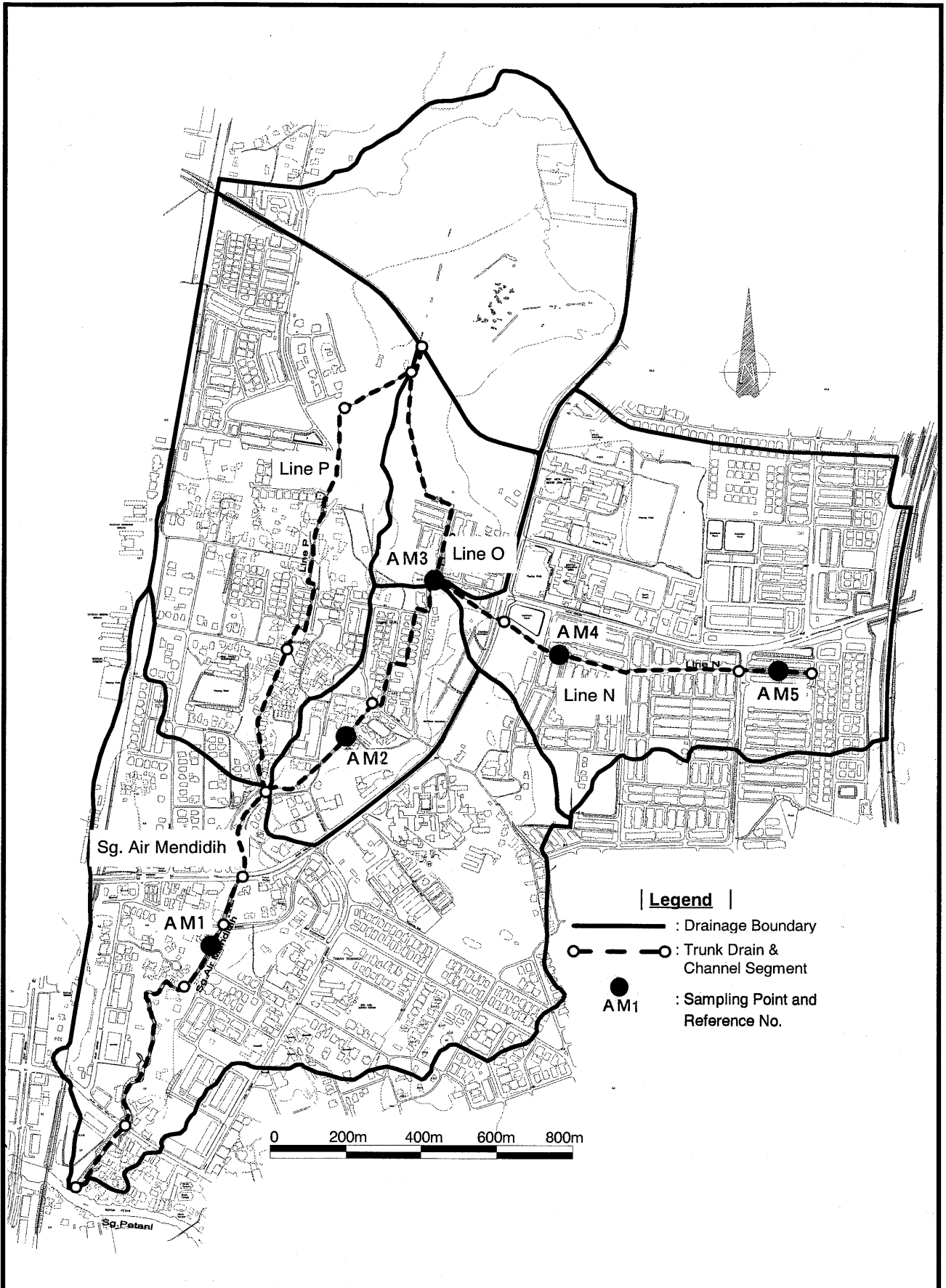
No.	Kampung	Mukim	Name	Flood			Results		Roofing Materials				Problems During Construction				Project Improvement			
				Never	Less Frequent	Frequent	Positive	Negative	Zinc	Tile	Nipah	Others	Flooding	Smell	Pest	Landscaping	Air Quality	Water Quality	Tranquility	Communal Harmony
1	Air Mendidih	Jalan Air Mendidih	Meeambal	1			1				1									
2	Air Mendidih	Jalan Air Mendidih	Kupusamy a/l Govindan		1		1			1					1	1				
3	Air Mendidih	Jalan Air Mendidih	Suakwinder Singh Tar Singh	1			1													
4	Air Mendidih	Jalan Air Mendidih	meera Mohaideen			1	1		1						1	1				
5	Air Mendidih	Jalan Air Mendidih	David Sbenezer	1			1			1										
6	Air Mendidih	Jalan Air Mendidih	Vengalai Santikumar			1	1		1						1	1				
7	Air Mendidih	Jalan Air Mendidih	Loorsamy Amainary			1	1		1						1	1				
8	Air Mendidih	Jalan Air Mendidih	Lee Boon Peng			1	1		1						1	1				
9	Bukit Pengkalan Lebat Man	Sg. Petani	Ariffin B. Osman			1	1		1						1	1				
10	Bukit Pengkalan Lebat Man	Sg. Petani	mohd Noor b. Yusof			1	1		1						1	1				
11	Jalan Air Mendidih	Air Mendidih	Lee tek Peng			1	1		1						1	1				
12	Jalan Air Mendidih	Air Mendidih	Sannarkam	1			1			1										
13	Jalan Air Mendidih	Air Mendidih	Boon Kah Seng	1			1			1										
14	Sungai Air Mendidih	Jalan Air Mendidih	chelladurai Poonai			1	1								1	1				
15	Sungai Air Mendidih	Taman Semaang	Subramaniam Abalasmay	1			1									1				
16	Taman Keladi	Sg. Petani	M. Kamiah			1	1			1					1	1				
17	Taman Keladi	Sg. Petani	Kawshelly Chandrasekharan			1	1			1					1	1				
18	Taman Keladi	Sg. Petani	Saimah			1	1			1					1	1				
19	Taman Keladi	Sg. Petani	Ahmad Raji Ibrahim			1	1			1					1	1				
20	Taman Keladi	Sg. Petani	Barbara Singh			1	1			1					1	1				
21	Taman Serindik	Air Mendidih	Sow Boon Yam	1			1			1										
22	Taman Sri Wang	Sg. Petani	Susila Joseph			1	1			1					1	1				
23	Taman Sri Wang	Sg. Petani	Khamis B. Ismail			1	1		1						1	1				
24	Taman Sri Wang	Sg. Petani	S. Subramaniam			1	1			1					1	1				
25	Taman Tiong	Air Tar Mendidih	Grace Annani Bai	1			1			1						1				
26	Taman Tiong	Jalan Air Mendidih	Grace Amani Bai	1			1			1										

Table IX-6 Community Perception of the Project in Sg. Melaka

No.	Kampung	Mukim	Name	Flood			Results		Roofing Materials				Problems During Construction				Project Improvement			
				Never	Less Frequent	Frequent	Positive	Negative	Zinc	Tile	Nipah	Others	Flooding	Smell	Pest	Landscapes	Air Quality	Water Quality	Tranquility	Communal Harmony
1	Air Salak		Anthony Sia Lai Hook	1			1								1	1	1	1	1	1
2	Air Salak		Tan Tiong Lay	1			1									1	1	1	1	1
3	Air Salak		Heng Ah Tong	1			1									1	1	1	1	1
4	Air Salak		Toh Wei Seng			1	1									1	1	1	1	1
5	Air Salak		Chai Wee Tee	1			1							Adeks		1	1	1	1	1
6	Air Salak		Koh Keng Chye			1	1													1
7	Air Salak		Yao Kim Lok			1	1							Adeks			1	1	1	1
8	Air Salak		Yeo Boo Yan			1	1							Batu Blok			1	1	1	1
9	Air Salak		Queck Chin Hua	1			1								1	1	1	1	1	1
10	Air Salak		Wong Boon Hong	1			1													
11	Air Salak		Paul On	1			1													
12	Air Salak		Heng Kee Meng	1			1													
13	Air Salak		Ng Nee Kiea	1			1							Adeks			1	1	1	1
14	Air Salak		Ng Tuan Neo	1			1									1	1	1	1	1
15	Jalan Pokok Mangga		Mrs. Grace Boon	1			1								1					
16	Kg Baru Ayer Salak		Ee Chin Sen	1			1													
17	Kg Batak	Pokok Mangga	Wee Nya Rose	1			1								1	1	1	1	1	1
18	Kg Batak	Pokok Mangga	Tay Wah Bee	1			1								1	1	1	1	1	1
19	Kg Batak	Pokok Mangga	Lamah Bt. Mohd			1	1								1	1	1	1	1	1
20	Kg Batak	Pokok Mangga	Sadarih Bt Ismail		1		1							Adeks	1	1	1	1	1	1
21	Kg Batak	Pokok Mangga	Chan Chun Mon		1		1							Adeks						
22	Kg Padang	Balai Panjang	Rosida bt Kamiran	1			1								1	1	1	1	1	1
23	Kg Padang	Balai Panjang	Azman bin Umar	1			1								1	1	1	1	1	1
24	Kg Padang	Balai Panjang	Misah Bt Abu Baker	1			1									1	1	1	1	1
25	Kg Padang	Balai Panjang	Lee Kay Kang	1			1							Adeks	1	1	1	1	1	1

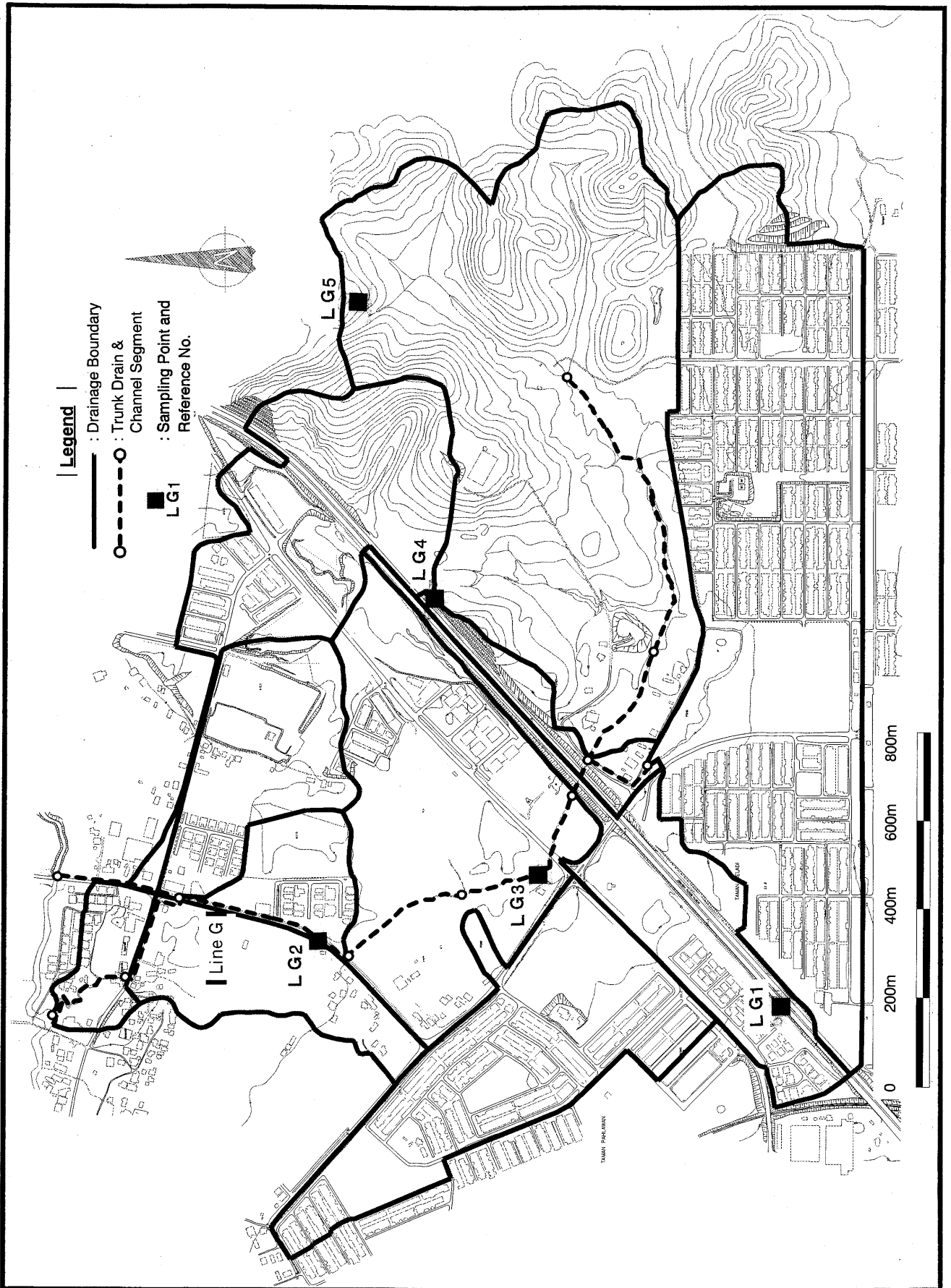
## ***FIGURES***





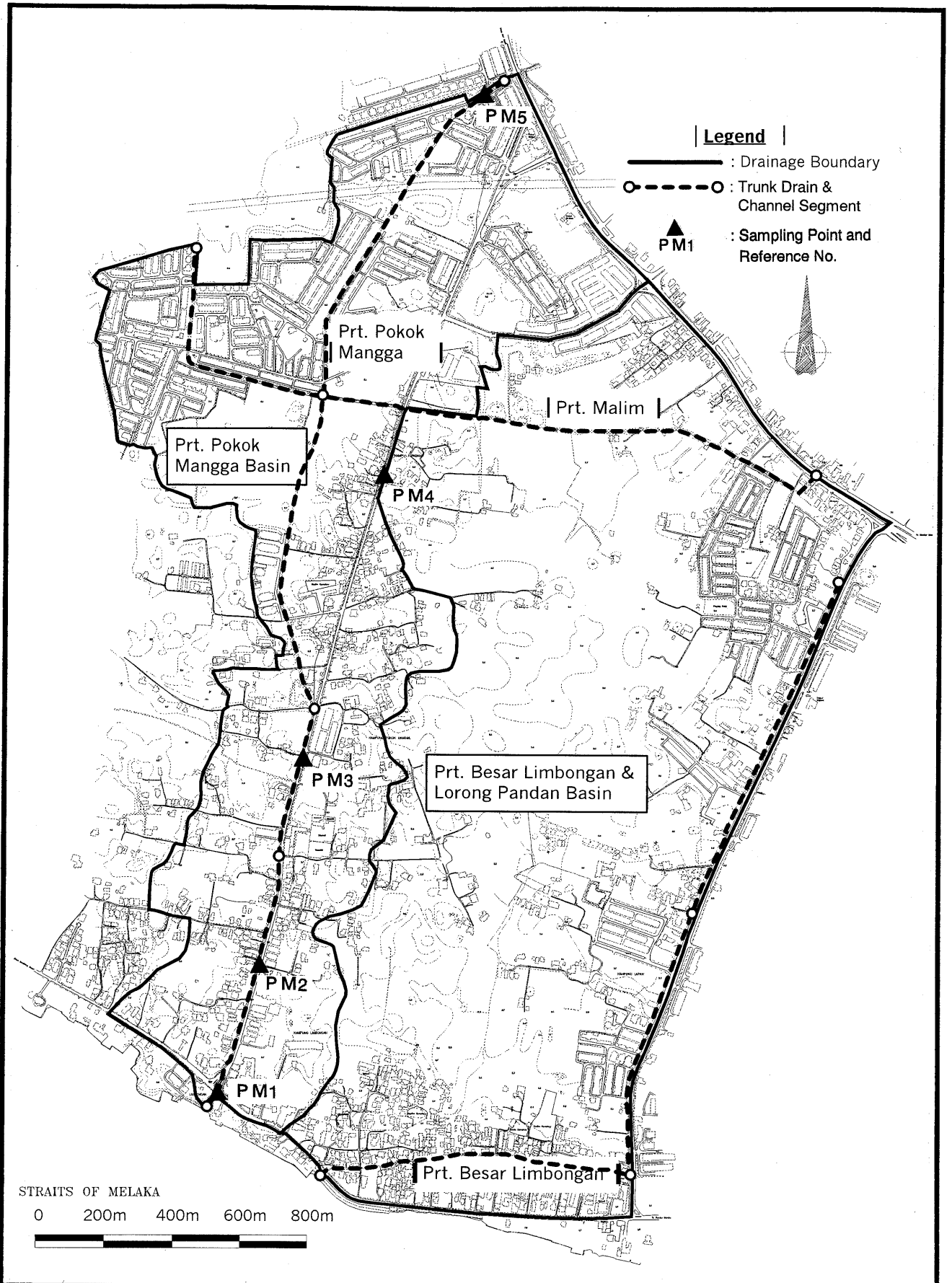
THE STUDY ON  
 INTEGRATED URBAN DRAINAGE IMPROVEMENT  
 FOR MELAKA AND SUNGAI PETANI IN MALAYSIA  
 JAPAN INTERNATIONAL COOPERATION AGENCY

**Fig. IX-1**  
**Water Quality Sampling Points in Sg.**  
**Air Mendidih Basin**



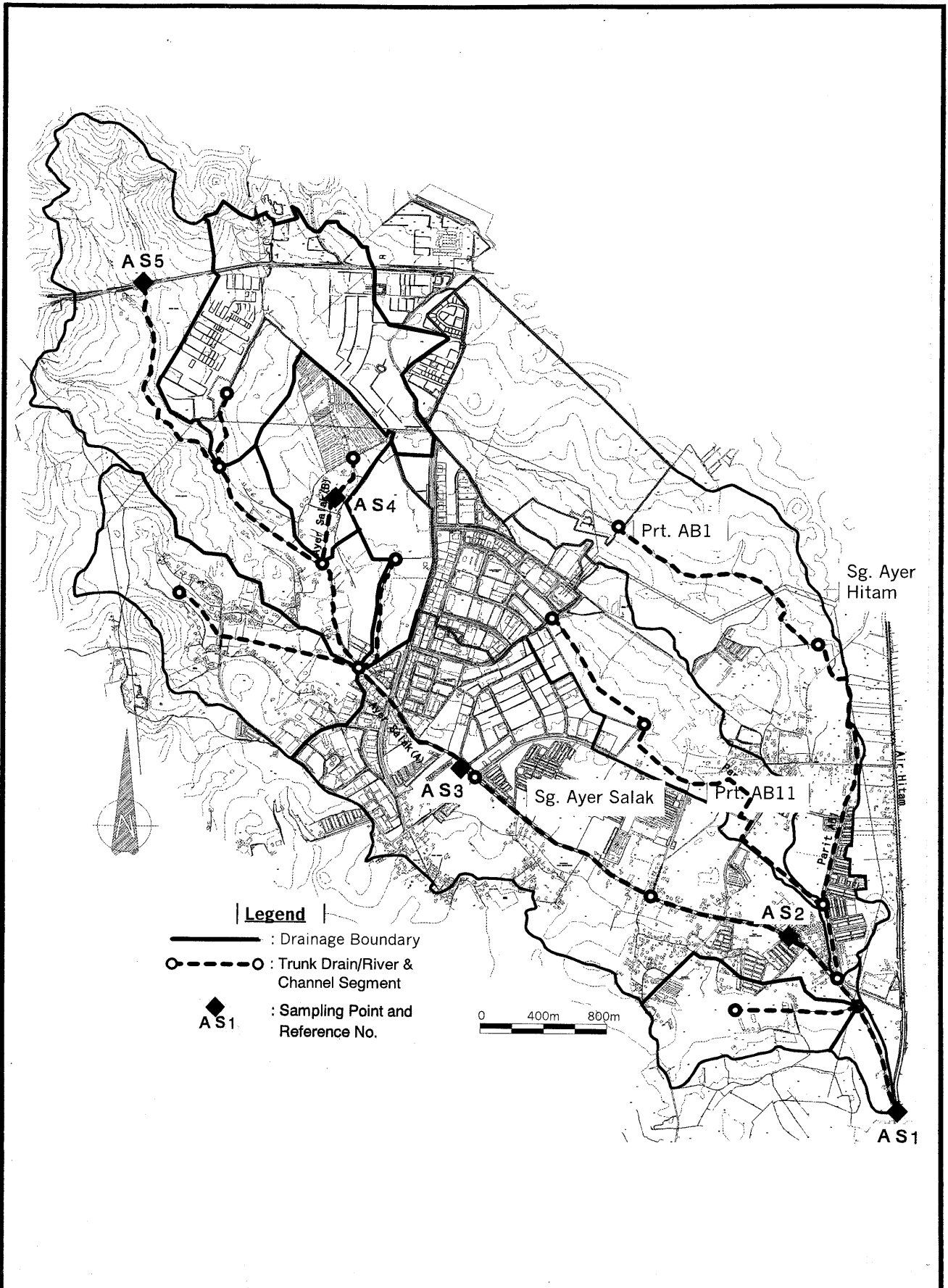
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**Fig. IX-2**  
**Water Quality Sampling Points in**  
**Line G Basin**



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**Fig. IX-3**  
**Water Quality Sampling Points in**  
**Prt. Pokok Mangga Basin**



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**Fig. IX-4**  
**Water Quality Sampling Points in Sg. Ayer Salak Basin**