Water quality trends for the Shing Mun River (Main Channel, Siu Lek Yuen Nullah and Fo Tan

Nullah), as analysed by the Seasonal Kendall Test

reality, as analysed by the		Shing Mun River							
Watercourse		Main Channel		k Yuen llah	Fo Tan	Nullah			
Monitoring station		TR19I	TR23L	TR23A	TR17	TR17L			
Monitoring period*		86-05	86-05	86-05	86-05	86-05			
Parameter	Unit		Results of	the Seasona	al Kendall T	est			
Dissolved oxygen	mg/L	7	7	7	_	71			
pН		71	7	_	_	71			
Suspended solids	mg/L	Ä	7	7	7	7			
BOD_5	mg/L	7	7	7	7	7			
COD	mg/L	7	7	7	7	A			
Oil & grease	mg/L	_	_	_	_	7			
E. coli	cfu/100mL	7	7	7	_	7			
Faecal coliforms	cfu/100mL	_	_	_	_	_			
Ammonia-nitrogen	mg/L	Ä	7	7	_	Ä			
Nitrate-nitrogen	mg/L	71	7	_	_	71			
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7			
Ortho-phosphate	mg/L	7	7	7	7	7			
Total phosphorus (SP)	mg/L	7	7	7	7	7			
Sulphide (SP)	mg/L	_	_	_	7	_			
Aluminium	μg/L	7	7	_	_	_			
Cadmium	μg/L	_	_	_	_	_			
Chromium	μg/L	-	-	-	7	-			
Copper	μg/L	_	_	_	7	7			
Lead	μg/L	-	Ä	-	7	-			
Zinc	μg/L	_	7	_	7	_			
Flow	L/s	×	-	×	-	×			

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. \times indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Shing Mun River (Kwun Yam Shan Stream, Tai Wai Nullah and Tin

Sum Nullah), as analysed by the Seasonal Kendall Test

Sum Numan), as analysed by		Shing Mun River							
Watercourse		Kwun Yam Shan Stream	Т	ai Wai Nulla	ıh	Tin Sum Nullah			
Monitoring station		KY1	KY1 TR19A TR19C TR1						
Monitoring period*	88-05	86-05	86-05	86-05	86-05				
Parameter	Unit	1	Results of th	e Seasonal	Kendall Tes	t			
Dissolved oxygen	mg/L	_	_	7	7	_			
рН		7	_	_	_	7			
Suspended solids	mg/L	-	_	7	7	Ä			
BOD_5	mg/L	7	7	3	4	7			
COD	mg/L	7	7	7	7	7			
Oil & grease	mg/L	_	_	_	4	_			
E. coli	cfu/100mL	_	7	_	7	_			
Faecal coliforms	cfu/100mL	_	7	_	4	_			
Ammonia-nitrogen	mg/L	7	7	7	7	Ä			
Nitrate-nitrogen	mg/L	7	71	_	_	71			
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7			
Ortho-phosphate	mg/L	7	7	7	4	_			
Total phosphorus (SP)	mg/L	7	7	7	7	7			
Sulphide (SP)	mg/L	_	_	_	_	_			
Aluminium	μg/L	_	_	_	_	7			
Cadmium	μg/L	_	7	71	71	_			
Chromium	μg/L	-	-	-	-	7			
Copper	μg/L	_	7	_	_	7			
Lead	μg/L	_	_	7	7	Ä			
Zinc	μg/L	_	_	_	_	7			
Flow	L/s	_	_	_	7	_			

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
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- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Lam Tsuen River and Tai Po River, as analysed by the Seasonal Kendall Test

Watercourse					Lam T	Suen R	iver				Tai Po River
Monitoring station	ı	TR12H	TR12D	TR12G	TR12F	TR12C	TR12B	TR12E	TR12	TR12I	TR13
Monitoring period	 *	88-05	86-05	86-05	86-05	86-05	86-05	86-05	86-05	89-05	86-05
Parameter	Unit			Resul	ts of th	e Seaso	nal Ke	ndall To	est		
Dissolved oxygen	mg/L	7	7	7	7	_	7	7	_	7	7
рН		_	7	_	7	_	_	7	7	7	_
Suspended solids	mg/L	7	7	7	7	7	7	_	_	7	7
BOD_5	mg/L	7	7	7	7	7	7	7	_	7	7
COD	mg/L	7	7	7	7	7	7	7	_	7	7
Oil & grease	mg/L	_	_	_	_	_	_	_	_	_	_
E. coli	cfu/100mL	_	_	_	_	_	_	_	_	7	_
Faecal coliforms	cfu/100mL	_	_	_	_	7	_	_	_	7	_
Ammonia-nitrogen	mg/L	7	_	7	7	_	7	7	_	7	7
Nitrate-nitrogen	mg/L	7	7	7	_	_	7	_	71	7	_
Total Kjeldahl nitrogen (SP)	mg/L	7	Ä	7	7	7	Ä	7	7	7	7
Ortho-phosphate	mg/L	7	7	7	7	_	7	7	_	7	7
Total phosphorus (SP)	mg/L	7	7	7	7	7	7	7	7	7	7
Sulphide (SP)	mg/L	_	_	_	_	_	_	_	_	_	_
Aluminium	μg/L	_	_	_	_	7	_	7	_	_	_
Cadmium	μg/L	_	_	_	_	_	_	_	_	_	_
Chromium	μg/L	_	_	_	_	_	_	_	_	_	_
Copper	μg/L	_	_	_	_	7	7	_	_	_	_
Lead	μg/L	_	_	_	_	7	_	_	7	_	7
Zinc	μg/L	_	_	_	_	_	_	_	_	_	_
Flow	L/s	_	7	_	7	_	_	7	_	×	_

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \blacksquare represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Tai Po Kau, Shan Liu and Tung Tze Streams, as analysed by the Seasonal Kendall Test

Watercourse		Tai Po Kau Stream	Shan Liu Stream	Tung Tze Stream			
Monitoring station		TR14	TR4	TR6			
Monitoring period*		86-05	86-05 86-05				
Parameter	Unit	Results	Results of the Seasonal Kenda				
Dissolved oxygen	mg/L	7	_	_			
pН		7	7	_			
Suspended solids	mg/L	Ä	-	_			
BOD ₅	mg/L	Ä	_	Ä			
COD	mg/L	Ä	-	Ä			
Oil & grease	mg/L	_	_	_			
E. coli	cfu/100mL	-	-	71			
Faecal coliforms	cfu/100mL	_	_	_			
Ammonia-nitrogen	mg/L	Ä	71	_			
Nitrate-nitrogen	mg/L	_	_	7			
Total Kjeldahl nitrogen (SP)	mg/L	7	-	Ä			
Ortho-phosphate	mg/L	7	_	_			
Total phosphorus (SP)	mg/L	7	-	7			
Sulphide (SP)	mg/L	_	_	_			
Aluminium	μg/L	_	-	_			
Cadmium	μg/L	_	_	_			
Chromium	μg/L	-	-	_			
Copper	μg/L	_	_	_			
Lead	μg/L	-	-	-			
Zinc	μg/L	_	_	_			
Flow	L/s	-	71	×			

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Ho Chung River, Sha Kok Mei Stream and Tai Chung Hau Stream,

as analysed by the Seasonal Kendall Test

Watercourse		Ho Chui	ng River	Sha Kok N	Iei Stream	Tai Chung Hau Stream	
Monitoring station		PR1	PR2	PR5	PR6	PR7	PR8
Monitoring period*		86-05	86-05	89-05	89-05	89-05	89-05
Parameter	Unit		Resu	dall Test			
Dissolved oxygen	mg/L	7	7	7	7	7	7
pН		_	7	7	7	7	_
Suspended solids	mg/L	7	7	7	-	7	7
BOD_5	mg/L	7	7	7	_	7	7
COD	mg/L	7	7	7	-	7	7
Oil & grease	mg/L	_	_	_	_	_	_
E. coli	cfu/100mL	7	_	_	-	_	_
Faecal coliforms	cfu/100mL	7	_	_	_	_	_
Ammonia-nitrogen	mg/L	7	7	7	7	7	7
Nitrate-nitrogen	mg/L	7	_	7	_	71	71
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	-	Ä	Ä
Ortho-phosphate	mg/L	7	7	7	_	7	7
Total phosphorus (SP)	mg/L	Ä	7	7	-	Ä	Ä
Sulphide (SP)	mg/L	_	_	_	_	_	_
Aluminium	μg/L	_	_	_	71	Ä	Ä
Cadmium	μg/L	_	_	_	_	_	_
Chromium	μg/L	7	-	_	_	_	_
Copper	μg/L	_	_	_	_	7	7
Lead	μg/L	7	-	_	_	_	-
Zinc	μg/L	7	_	_	_	_	_
Flow	L/s	×	7	_	×	7	×

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- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
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Water quality trends for the Tseng Lan Shue Stream, as analysed by the Seasonal Kendall Test

Watercourse		Ts	seng Lan Shue Stre	am				
Monitoring station		JR3	JR6	JR11				
Monitoring period*		86-05	86-05	86-05				
Parameter	Unit	Results	Results of the Seasonal Kendall Test					
Dissolved oxygen	mg/L	71	71	71				
рН		71	71	71				
Suspended solids	mg/L	7	ä	a				
BOD_5	mg/L	2	2	7				
COD	mg/L	7	Ä	Ä				
Oil & grease	mg/L	_	_	_				
E. coli	cfu/100mL	_	7	7				
Faecal coliforms	cfu/100mL	_	7	7				
Ammonia-nitrogen	mg/L	7	u	Ä				
Nitrate-nitrogen	mg/L	71	71	_				
Total Kjeldahl nitrogen (SP)	mg/L	7	Ä	Ä				
Ortho-phosphate	mg/L	2	7	7				
Total phosphorus (SP)	mg/L	7	7	7				
Sulphide (SP)	mg/L	_	_	_				
Aluminium	μg/L	_	_	_				
Cadmium	$\mu g/L$	_	_	_				
Chromium	$\mu g/L$	_	_	_				
Copper	$\mu g/L$	7	_	7				
Lead	$\mu g/L$	-	a	_				
Zinc	$\mu g/L$	7	_	_				
Flow	L/s	×	×	_				

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 4. \blacksquare represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Rivers Indus, Beas and Ganges, as analysed by the Seasonal Kendall Test

Watercourse		Ri	ver Ind	lus	River Beas			River Ganges		
Monitoring station		IN1	IN2	IN3	RB1	RB2	RB3	GR1	GR2	GR3
Monitoring period*		87-05	87-05	87-05	86-05	86-05	86-05	87-05	87-05	90-05
Parameter	Unit		R	esults	of the S	Season	al Ken	dall Te	st	
Dissolved oxygen	mg/L	7	7	7	7	7	7	7	7	_
pН		7	7	7	7	7	7	7	7	_
Suspended solids	mg/L	_	7	7	7	7	7	_	7	7
BOD_5	mg/L	7	7	7	7	7	7	7	7	-
COD	mg/L	7	7	7	7	7	7	7	7	_
Oil & grease	mg/L	_	_	_	7	7	7	_	-	_
E. coli	cfu/100mL	7	7	7	7	7	7	7	7	_
Faecal coliforms	cfu/100mL	_	7	4	7	7	7	7	7	7
Ammonia-nitrogen	mg/L	7	7	7	7	7	7	_	7	_
Nitrate-nitrogen	mg/L	7	7	7	7	7	7	7	7	_
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7	7	7	7	7
Ortho-phosphate	mg/L	7	7	7	7	7	7	7	7	7
Total phosphorus (SP)	mg/L	7	7	7	7	7	7	7	7	7
Sulphide (SP)	mg/L	7	7	_	7	7	7	7	7	_
Aluminium	μg/L	_	_	7	7	7	7	_	7	_
Cadmium	μg/L	_	_	_	_	_	_	_	_	_
Chromium	μg/L	_	_	_	_	_	_	_	7	_
Copper	μg/L	7	4	¥	7	4	7	_	7	_
Lead	μg/L	7	_	¥	7	7	7	7	7	_
Zinc	μg/L	7	7	7	7	¥	7	_	7	_
Flow	L/s	_	×	ı	ı	_	_	_	7	7

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \mathbf{a} represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Yuen Long Creek, Kam Tin River, Tin Shui Wai Nullah and Fairview Park Nullah, as analysed by the Seasonal Kendall Test

Watercourse			ien Loi				1 Tin		ui Wai llah	Fairview Park Nullah
Monitoring station		YL1	YL2	YL3	YL4	KT1	KT2	TSR1	TSR2	FVR1
Monitoring period*		86-05	86-05	86-05	86-05	86-05	86-05	93-05	93-05	93-05
Parameter	Unit			Res	sults o	f the Se	easonal	Kendal	ll Test	
Dissolved oxygen	mg/L	7	7	7	7	7	7	7	7	71
рН		7	7	7	7	7	7	_	7	7
Suspended solids	mg/L	7	7	-	_	7	_	-	7	71
BOD_5	mg/L	7	7	7	7	7	7	7	7	7
COD	mg/L	7	7	7	7	7	7	_	7	_
Oil & grease	mg/L	7	7	_	7	7	_	_	_	_
E. coli	cfu/100mL	7	_	7	_	_	_	7	7	7
Faecal coliforms	cfu/100mL	7	7	7	_	_	_	7	7	7
Ammonia-nitrogen	mg/L	7	7	7	7	7	7	_	7	7
Nitrate-nitrogen	mg/L	7	7	_	-	7	_	-	_	7
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	Ä	7	Ä	7	Ä
Ortho-phosphate	mg/L	7	7	7	7	7	7	7	7	7
Total phosphorus (SP)	mg/L	7	7	7	7	7	7	7	7	7
Sulphide (SP)	mg/L	7	7	7	7	7	7	7	_	7
Aluminium	μg/L	_	_	_	_	_	_	_	_	71
Cadmium	μg/L	7	_	_	_	_	_	_	_	_
Chromium	μg/L	7	_	7	7	7	_	_	_	_
Copper	μg/L	7	_	_	_	_	_	7	7	_
Lead	μg/L	7	7	_	_	_	_	_	_	_
Zinc	μg/L	7	7	_	_	_	_	_	7	_
Flow	L/s	_	7		-	-	_	×	_	×

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Ha Pak Nai, Pak Nai, Sheung Pak Nai, Ngau Hom Sha, Tai Shui

Hang and Tsang Kok Streams, as analysed by the Seasonal Kendall Test

Watercourse		Ha Pak Nai Stream	Pak Nai Stream	Sheung Pak Nai Stream	Ngau Hom Sha Stream	Tai Shui Hang Stream	Tsang Kok Stream	
Monitoring station		DB1	DB3	DB5	DB6	DB2	DB8	
Monitoring period*		89-05 89-05 89-05 89-05 90						
Parameter	Unit		Results	of the Seas	sonal Kend	all Test		
Dissolved oxygen	mg/L	71	7	7	7	71	7	
рН		71	_	7	7	_	7	
Suspended solids	mg/L	7	7	7	7	_	7	
BOD_5	mg/L	7	7	7	7	4	7	
COD	mg/L	7	7	7	7	7	_	
Oil & grease	mg/L	_	_	_	_	_	_	
E. coli	cfu/100mL	_	_	_	7	_	_	
Faecal coliforms	cfu/100mL	_	_	_	7	_	_	
Ammonia-nitrogen	mg/L	_	7	7	7	_	_	
Nitrate-nitrogen	mg/L	7	_	7	7	7	7	
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	Ä	7	
Ortho-phosphate	mg/L	7	7	7	7	7	7	
Total phosphorus (SP)	mg/L	7	7	7	7	7	7	
Sulphide (SP)	mg/L	_	_	_	7	_	_	
Aluminium	μg/L	_	_	_	7	7	_	
Cadmium	μg/L	_	_	_	7	_	_	
Chromium	μg/L	_	_	_	_	-	_	
Copper	μg/L	_	_	_	_	_	_	
Lead	μg/L	_	7	7	7	_	Ä	
Zinc	μg/L	_	_	_	7	_	_	
Flow	L/s	_	_	-	_	7	_	

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 4. \blacksquare represents a decreasing trend significant at p < 0.05.
- 5. \times indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends of Mui Wo River, as analysed by the Seasonal Kendall Test

Watercourse			N	Aui Wo Rive	er			
Monitoring station		MW1	MW2	MW3	MW4	MW5		
Monitoring period*		86-05	86-05	86-05	88-05	88-05		
Parameter	Unit	Results of the Seasonal Kendal Test						
Dissolved oxygen	mg/L	7	7	7	7	7		
pН		_	7	7	_	_		
Suspended solids	mg/L	7	7	7	_	_		
BOD ₅	mg/L	7	7	7	7	_		
COD	mg/L	7	7	7	7	7		
Oil & grease	mg/L	_	_	_	_	_		
E. coli	cfu/100mL	7	-	7	-	_		
Faecal coliforms	cfu/100mL	_	7	_	7	7		
Ammonia-nitrogen	mg/L	7	-	7	7	7		
Nitrate-nitrogen	mg/L	_	7	7	_	7		
Total Kjeldahl nitrogen (SP)	mg/L	7	-	Ä	-	7		
Ortho-phosphate	mg/L	7	_	7	7	_		
Total phosphorus (SP)	mg/L	7	7	7	7	_		
Sulphide (SP)	mg/L	_	_	_	_	_		
Aluminium	μg/L	_	_	_	_	_		
Cadmium	μg/L	_	_	_	-	_		
Chromium	μg/L	_	_	_	-	_		
Copper	μg/L	_	_	_	_	_		
Lead	μg/L	_	7	_	_	_		
Zinc	μg/L	_	_	_	_	_		
Flow	L/s		×		7			

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends of Tung Chung River, as analysed by the Seasonal Kendall Test

Watercourse			Tung Chung River	
Monitoring station		TC1	TC2	TC3
Monitoring period*		93-05	93-05	93-05
Parameter	Unit	Results	of the Seasonal Ken	dallTest
Dissolved oxygen	mg/L	Ä	_	-
pН		Ä	7	_
Suspended solids	mg/L	Ä	_	Ä
BOD ₅	mg/L	Ä	_	-
COD	mg/L	Ä	Ä	Ä
Oil & grease	mg/L	_	_	_
E. coli	cfu/100mL	_	_	71
Faecal coliforms	cfu/100mL	7	7	7
Ammonia-nitrogen	mg/L	Ä	Ä	7
Nitrate-nitrogen	mg/L	_	_	_
Total Kjeldahl nitrogen (SP)	mg/L	Ä	Ä	7
Ortho-phosphate	mg/L	Ä	Ä	_
Total phosphorus (SP)	mg/L	-	_	_
Sulphide (SP)	mg/L	_	_	_
Aluminium	μg/L	_	_	_
Cadmium	μg/L	_	_	_
Chromium	μg/L	_	_	_
Copper	μg/L	_	_	_
Lead	μg/L	_	_	_
Zinc	μg/L	_	_	_
Flow	L/s	_	_	×

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Tuen Mun River, as analysed by the Seasonal Kendall Test

Watercourse		Tuen Mun River						
Monitoring station		TN1	TN2	TN3	TN4	TN5	TN6	
Monitoring period*		86-05	86-05	86-05	86-05	86-05	86-05	
Parameter	Unit		Results o	f the Seas	onal Kend	lall Test		
Dissolved oxygen	mg/L	7	7	7	7	7	7	
pН		_	_	_	_	7	_	
Suspended solids	mg/L	7	7	_	_	-	7	
BOD_5	mg/L	7	7	7	7	4	4	
COD	mg/L	7	7	7	7	7	7	
Oil & grease	mg/L	_	7	7	_	-	_	
E. coli	cfu/100mL	7	7	7	7	7	7	
Faecal coliforms	cfu/100mL	7	7	7	7	4	4	
Ammonia-nitrogen	mg/L	7	7	7	7	7	7	
Nitrate-nitrogen	mg/L	7	7	7	7	7	7	
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7	7	
Ortho-phosphate	mg/L	7	7	7	7	7	7	
Total phosphorus (SP)	mg/L	7	7	7	7	7	7	
Sulphide (SP)	mg/L	7	_	7	_	7	_	
Aluminium	μg/L	7	_	_	_	_	_	
Cadmium	μg/L	7	_	_	_	_	_	
Chromium	μg/L	7	7	7	7	7	7	
Copper	μg/L	7	7	7	7	4	7	
Lead	μg/L	7	7	7	_	_	7	
Zinc	μg/L	7	_	_	_	_	_	
Flow	L/s	7	_	×	×	×	×	

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. **7** represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Pai Min Kok, Sam Dip Tam and Kau Wa Keng Streams, as analysed

by the Seasonal Kendall Test

Watercourse Monitoring station Monitoring period*		Pai Min Kok Stream		Sam Dip Tam Stream			Kau Wa Keng Stream		
		AN1	AN2	TW1	TW2	TW3	KW3		
		88-05	88-05	86-05	86-05	86-05	88-05		
Parameter	Unit	Results of the Seasonal Kendall Test							
Dissolved oxygen	mg/L	7	7	7	7	7	7		
pН		_	7	7	7	7	7		
Suspended solids	mg/L	_	7	7	7	_	7		
BOD_5	mg/L	_	7	7	_	_	7		
COD	mg/L	-	7	7	_	7	7		
Oil & grease	mg/L	_	_	_	_	_	_		
E. coli	cfu/100mL	_	_	_	_	_	_		
Faecal coliforms	cfu/100mL	_	_	_	_	_	7		
Ammonia-nitrogen	mg/L	-	7	7	7	_	7		
Nitrate-nitrogen	mg/L	7	7	_	_	7	_		
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7	7		
Ortho-phosphate	mg/L	7	7	7	7	7	7		
Total phosphorus (SP)	mg/L	Z	7	7	7	7	7		
Sulphide (SP)	mg/L	_	_	_	_	_	_		
Aluminium	μg/L	_	_	_	_	7	_		
Cadmium	μg/L	_	_	_	_	_	_		
Chromium	μg/L	_	_	-	-	-	_		
Copper	μg/L	7	_	7	_	_	_		
Lead	μg/L	7	7	7	7	-	7		
Zinc	μg/L	_	7	_	_	_	_		
Flow	L/s	×	_	7	_	×	-		

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- 5. × indicates no measurement was taken.
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.

Water quality trends for the Kai Tak Nullah, as analysed by the Seasonal Kendall Test

Watercourse		Kai Tak Nullah							
Monitoring station		KN1	KN2	KN3	KN4	KN5	KN7		
Monitoring period*		86-05	86-05	86-05	86-05	86-05	86-05		
Parameter	Unit	Results of the Seasonal Kendall Test							
Dissolved oxygen	mg/L	7	7	7	7	_	7		
pН		7	7	7	_	_	7		
Suspended solids	mg/L	7	7	7	7	7	7		
BOD_5	mg/L	7	7	7	7	7	4		
COD	mg/L	7	7	7	7	7	7		
Oil & grease	mg/L	7	7	7	7	_	_		
E. coli	cfu/100mL	7	7	_	7	_	7		
Faecal coliforms	cfu/100mL	7	7	_	7	_	4		
Ammonia-nitrogen	mg/L	7	7	_	7	_	7		
Nitrate-nitrogen	mg/L	7	7	7	7	7	7		
Total Kjeldahl nitrogen (SP)	mg/L	7	7	7	7	7	7		
Ortho-phosphate	mg/L	_	_	_	_	7	_		
Total phosphorus (SP)	mg/L	7	_	7	7	_	_		
Sulphide (SP)	mg/L	7	7	7	_	_	_		
Aluminium	μg/L	7	7	_	7	7	7		
Cadmium	μg/L	7	7	7	7	7	4		
Chromium	μg/L	7	7	7	7	7	7		
Copper	μg/L	7	7	7	7	7	7		
Lead	μg/L	7	7	7	7	7	7		
Zinc	μg/L	7	_	_	7	_	7		
Flow	L/s	×	×	×	×	×	×		

- 1. (SP) soluble and particulate fractions (i.e. total) of the water quality parameter.
- 2. indicates no significant trend is detected at p < 0.05.
- 3. 7 represents an increasing trend significant at p < 0.05.
- 4. \bullet represents a decreasing trend significant at p < 0.05.
- $5. \times \text{indicates no measurement was taken.}$
- 6. * indicates the monitoring period for most of the parameters, a few commenced in different years during the period.