

4.1.4 Contribution Concentration by Air Pollution Sources

(1) Contribution Concentration at Monitoring Station and Maximum Concentration Point

Estimated contribution concentration at monitoring stations and maximum concentration point by sources is shown in Table 4.1.2 - Table 4.1.4.

Table 4.1.2 Contribution Concentration by Sources

(Present state)

Items	Sources Stations	Factories	Motor Vehicles	Ships	Back -ground	Total
SO ₂ (ppb)	A.City Hall	0.7	7.1	0.0	3.1	11.0
	B.U.P.M.	1.2	0.5	0.0		4.8
	C.Petaling Jaya	10.6	2.4	0.0		16.0
	D.Shah Alam	5.2	0.9	0.1		9.3
	E.Klang	2.7	0.6	0.3		6.8
	Cmax Point (54,30)	52.3	4.3	0.0		59.7
NO _x (ppb)	A.City Hall	0.3	104.0	0.0	5.9	110.1
	B.U.P.M	0.5	8.0	0.0		14.4
	C.Petaling Jaya	1.4	51.2	0.0		58.5
	D.Shah Alam	2.5	19.1	0.0		27.5
	E.Klang	4.2	8.0	0.2		18.3
	Cmax Point (54,33)	0.9	265.6	0.0		272.4
CO (ppm)	A.City Hall	-	2.28	-	1.02	3.30
	B.U.P.M.	-	0.09	-		1.10
	C.Petaling Jaya	-	0.70	-		1.72
	D.Shah Alam	-	0.23	-		1.25
	E.Klang	-	0.09	-		1.11
	Cmax Point (59,37)	-	3.90	-		4.92

Table 4.1.3 Contribution Concentration by Sources

(In future)

Items	Sources Stations	Factories	Motor Vehicles	Ships	Back -ground	Total
SO ₂ (ppb)	A.City Hall	0.7	16.3	0.0	3.6	20.6
	B.U.P.M.	1.2	1.2	0.0		6.1
	C.Petaling Jaya	10.6	5.3	0.0		19.6
	D.Shah Alam	5.5	2.1	0.1		11.3
	E.Klang	3.6	1.2	0.3		8.8
	Cmax Point (54,30)	52.5	9.7	0.0		65.8
NO _x (ppb)	A.City Hall	0.4	237.0	0.0	9.2	246.6
	B.U.P.M	1.2	18.1	0.0		28.5
	C.Petaling Jaya	2.0	116.9	0.0		128.1
	D.Shah Alam	3.9	43.3	0.1		56.4
	E.Klang	6.0	18.2	0.3		33.6
	Cmax Point (54,33)	1.4	603.0	0.0		613.5
CO (ppm)	A.City Hall	-	5.20	-	1.68	6.88
	B.U.P.M.	-	0.19	-		1.87
	C.Petaling Jaya	-	1.60	-		3.28
	D.Shah Alam	-	0.53	-		2.21
	E.Klang	-	0.20	-		1.88
	Cmax Point (59,37)	-	8.84	-		10.52

Table 4.1.4 Contribution Concentration by Sources

(With control measure)

Items	Sources Stations	Factories	Motor Vehicles	Ships	Back -ground	Total
SO ₂ (ppb)	A.City Hall	0.3	5.8	0.0	3.1	9.2
	B.U.P.M.	0.4	0.9	0.0		4.5
	C.Petaling Jaya	2.0	1.1	0.0		8.5
	D.Shah Alam	2.9	0.8	0.1		8.7
	E.Klang	1.6	0.6	0.3		6.1
	Cmax Point (76,15)	25.5	0.4	0.0		29.0
NO _x (ppb)	A.City Hall	0.4	77.3	0.0	7.3	84.9
	B.U.P.M	1.2	12.0	0.0		20.4
	C.Petaling Jaya	1.6	42.7	0.0		51.5
	D.Shah Alam	3.5	33.3	0.1		44.1
	E.Klang	5.1	13.6	0.2		26.2
	Cmax Point (58,40)	0.4	129.3	0.0		136.9
CO (ppm)	A.City Hall	-	1.12	-	1.08	2.20
	B.U.P.M.	-	0.11	-		1.19
	C.Petaling Jaya	-	0.43	-		1.51
	D.Shah Alam	-	0.25	-		1.33
	E.Klang	-	0.13	-		1.21
	Cmax Point (59,38)	-	1.76	-		2.84

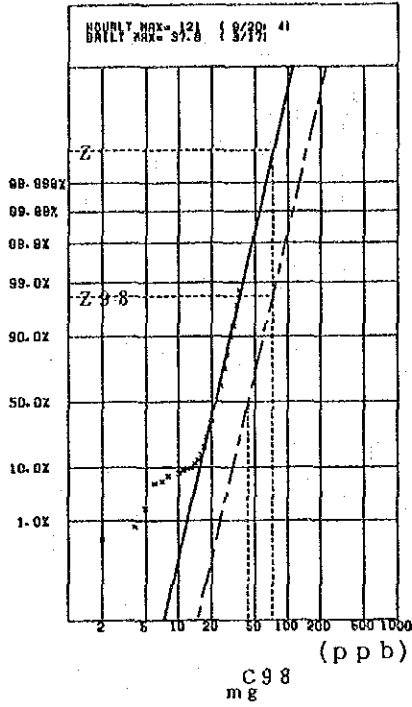
Part 5 AIR QUALITY TARGET VALUE

5.1 Estimation of Air Quality Target Value

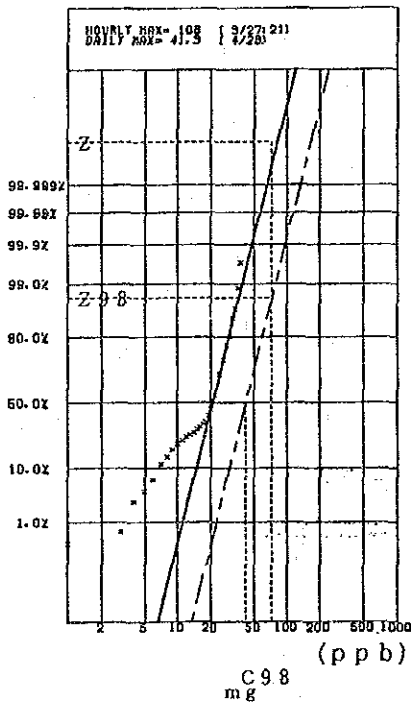
Air Quality Target Value

Daily

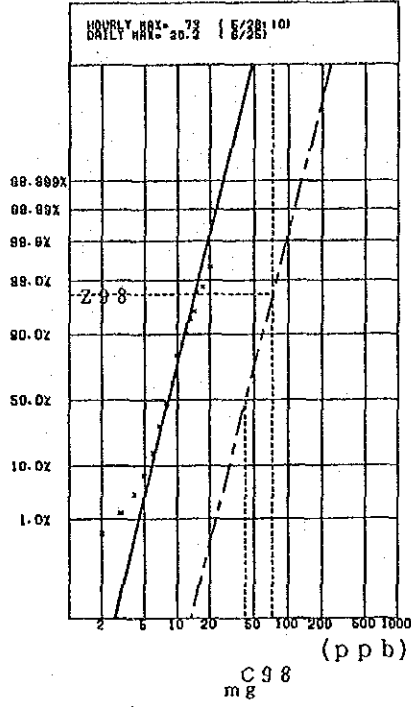
NO₂
City Hall



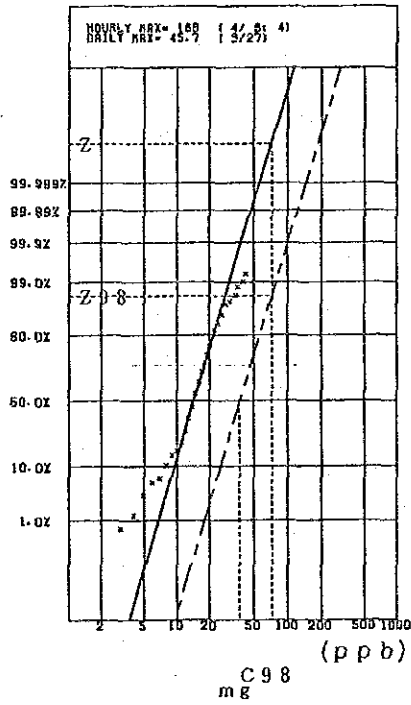
NO₂
Petaling Jaya



NO₂
UPM
Z

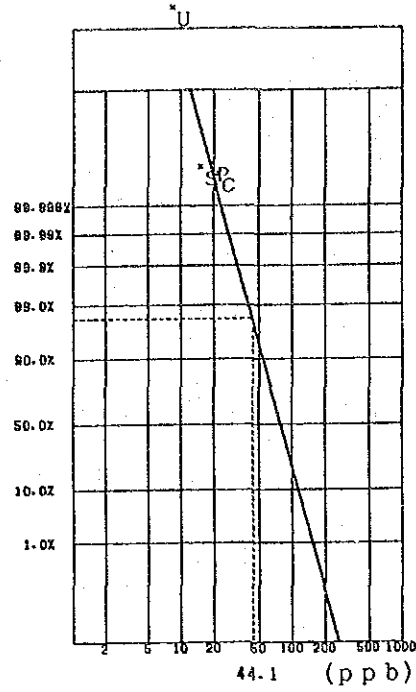


NO₂
Shah Alam



Air Quality Target Value

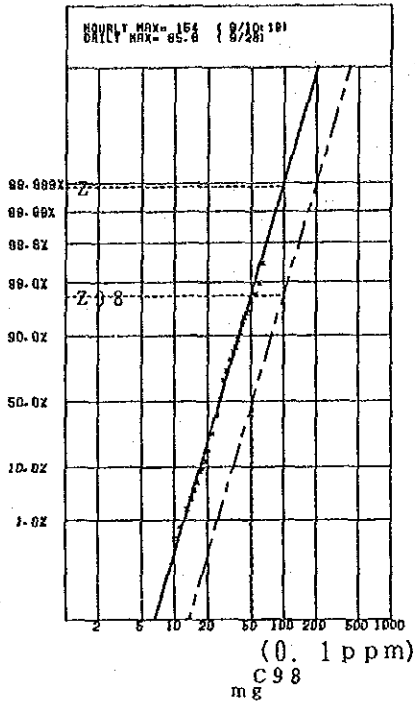
NO₂
Whole Area



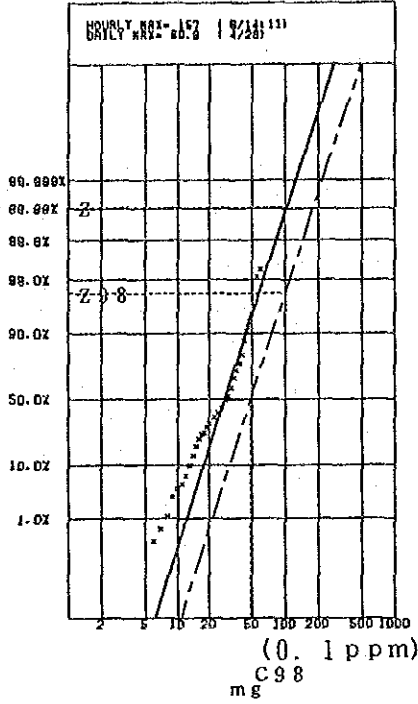
Air Quality Target Value

Daily

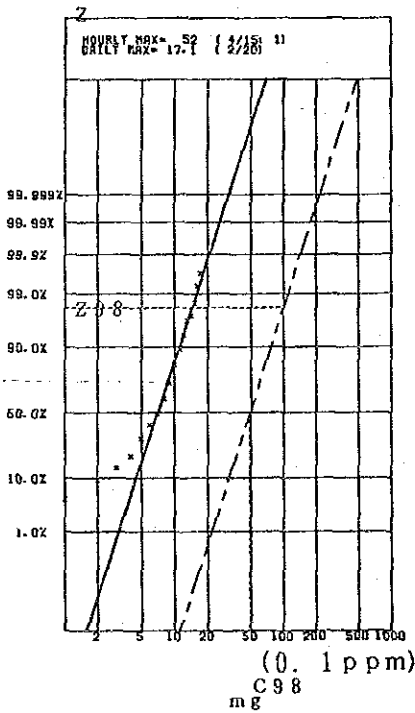
CO
City Hall



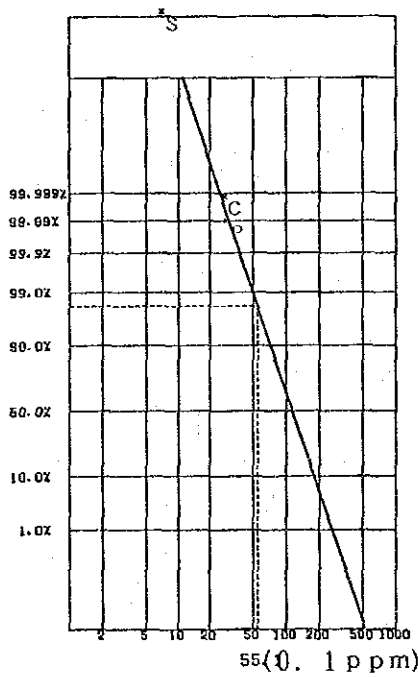
CO
Petaling Jaya



CO
Shah Alam



CO
Whole Area

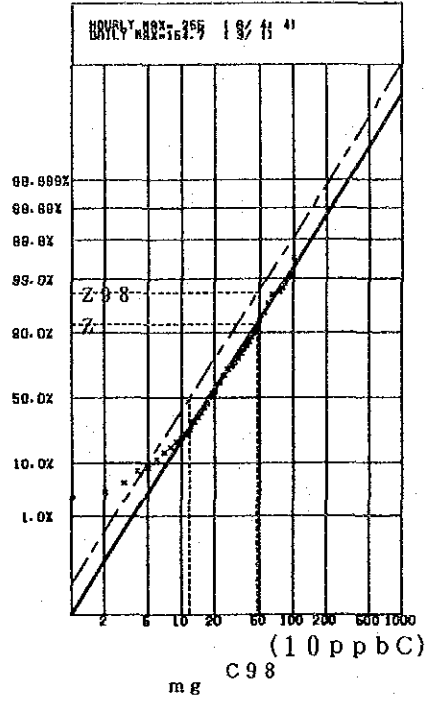
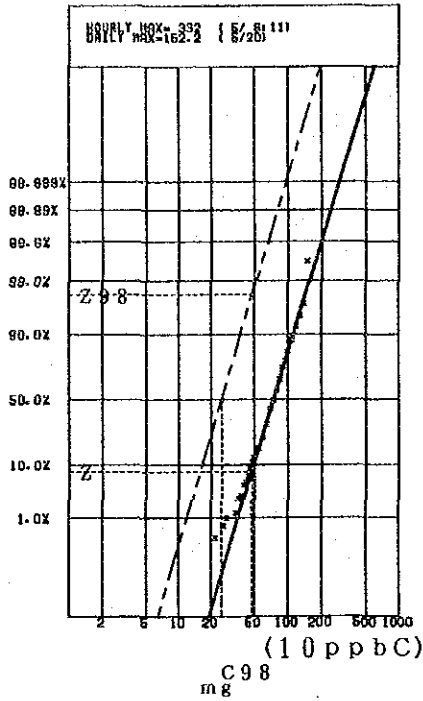


Air Quality Target Value 1992 Mar. ~1993 Feb.

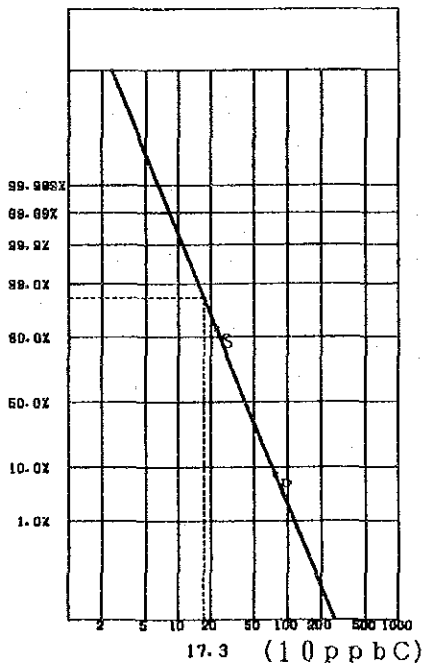
Daily

NMHC
Petaling Jaya

NMHC
Shah Alam



NMHC
Whole Area

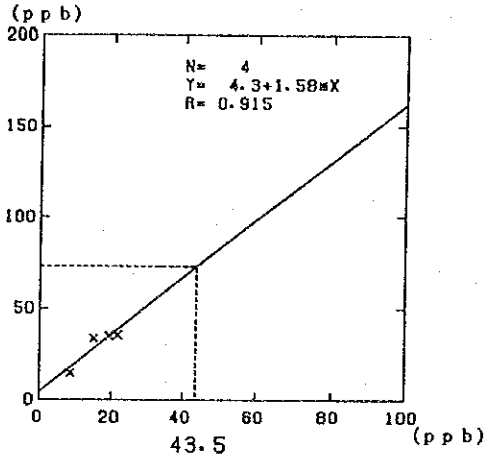


Linear Regression

Y-axis: 98% Value (NO₂)
X-axis: Annual Average (NO₂)

1992 Mar. ~1993 Feb.

Klang Valley Region

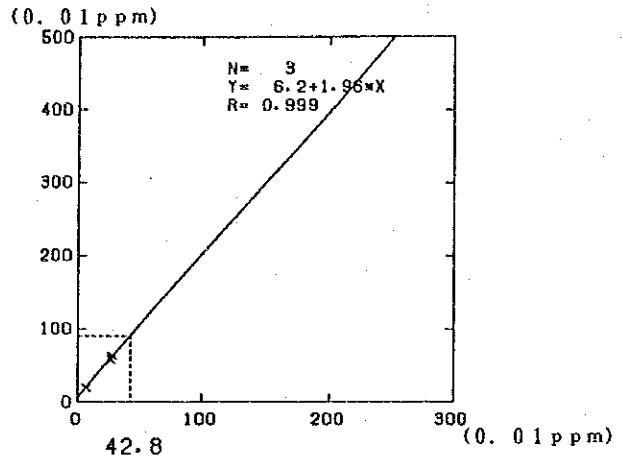


Linear Regression

Y-axis: 98% Value (CO, 8hrs)
X-axis: Annual Average (CO)

1992 Mar. ~1993 Feb.

Klang Valley Region

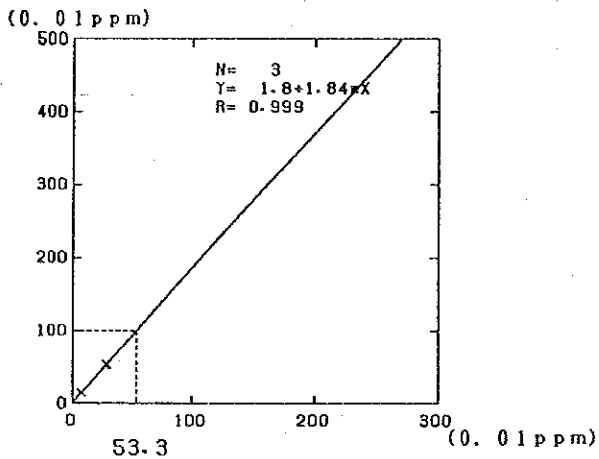


Linear Regression

Y-axis: 98% Value (CO)
X-axis: Annual Average (CO)

1992 Mar. ~1993 Feb.

Klang Valley Region

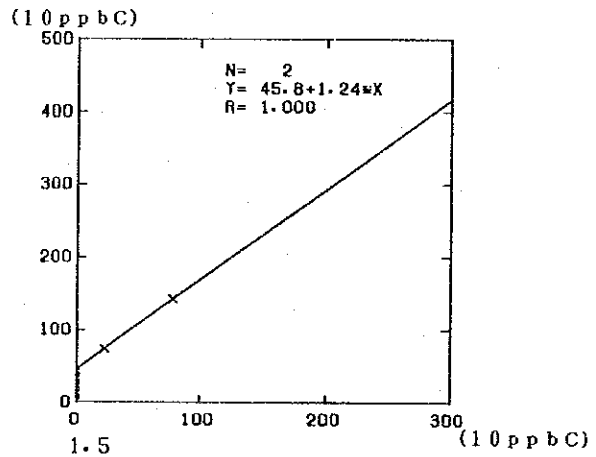


Linear Regression

Y-axis: 98% Value (NMHC)
X-axis: Annual Average (NMHC)

1992 Mar. ~1993 Feb.

Klang Valley Region



Part 6 LIST OF EXISTING DATA COLLECTED

LIST OF EXISTING DATA COLLECTED

1. SOCIO-ECONOMIC CONDITION

- 1001 TITLE : GUIDELINES FOR THE SITING AND ZONING OF INDUSTRIES
APPENDIX"A"
SOURCE :
YEAR :
- 1002 TITLE : TRAFFIC CENSUS FOR SELANGOR AND KUALA LUMPUR (AN EXTRACT)
SOURCE :
YEAR : 1987
- 1003 TITLE : INVESTMENT GUIDE FOR SELANGOR DARUL EHSAN
SOURCE :
YEAR :
- 1004 TITLE : MALAYSIAN ECONOMY IN FIGURES
SOURCE :
YEAR : 1990
- 1005 TITLE : THE SIX MALAYSIAN PLAN 1990-1995 (AN EXTRACT)
SOURCE : GOM
YEAR :
- 1006 TITLE : ECONOMIC REPORT 1990-1991
SOURCE : MINISTRY OF FINANCE
YEAR :
- 1007 TITLE : ANNUAL REPORT 1990 (AN EXTRACT)
SOURCE : BANK NEGARA MALAYSIA
YEAR :
- 1008 TITLE : BUKU TAHUNAN PERANGKAAN, YEARBOOK OF STATISTICS 1990
SOURCE : DEPARTMENT OF STATISTICS MALAYSIA
YEAR : 1991
- 1009 TITLE : THE SECOND OUTLINE PERSPECTIVE PLAN 1991-2000
SOURCE : GOM
YEAR :
- 1010 TITLE : SOCIAL STATISTICS BULLETIN 1989
SOURCE : DOS
YEAR :
- 1011 TITLE : STATE/DISTRICT DATA BANK , MALAYSIA 1989
SOURCE : DOS
YEAR :
- 1012 TITLE : VITAL STATISTICS, PENINSULA MALAYSIA, 1989
SOURCE : DOS
YEAR :
- 1013 TITLE : INTERNAL MIGRATION, PENINSULA MALAYSIA 1989-1990
SOURCE : DOS
YEAR :
- 1014 TITLE : INDUSTRIAL SURVEYS 1989
SOURCE : DOS
YEAR :
- 1015 TITLE : CONSUMER PRICE INDEX FOR MALAYSIA, JAN. '92
SOURCE : DOS
YEAR :

1016 TITLE : PRODUCER PRICE FOR MALAYSIA, JAN.'92
SOURCE : DOS
YEAR :

1017 TITLE : UNIT PRICES OF 5 MATERIALS FOR CIVIL WORKS, FEB.'92
SOURCE : DOS
YEAR :

1018 TITLE : TOXIC AND HAZARDOUS WASTE STUDY 1988 (AN EXTRACT)
SOURCE : DOE
YEAR :

1019 TITLE : STATE HOUSING REPORT 1980, SELANGOR
SOURCE : DOS
YEAR :

1020 TITLE : STATE HOUSING REPORT 1980, FEDERAL TERRITORY
SOURCE : DOS
YEAR :

1021 TITLE : KUALA LUMPUR 1983
SOURCE : CITY HALL
YEAR :

1022 TITLE : BANGI 1985
SOURCE : KERAJAAN NEGERI SELANGOR (KNS)
YEAR :

1023 TITLE : BANGI/KAJANG SP STUDY, WORKING PAPER 9
SOURCE : KNS
YEAR :

1024 TITLE : PETALING AND KLANG DISTRICT 1989
SOURCE : KNS
YEAR :

1025 TITLE : GOMBAK DISTRICT 1985; CH.1,5,6,
SOURCE : KLANG VALLEY PLANNING SECRETARIAT (KVPS)
YEAR :

1026 TITLE : PELAN PERSPEKTIF WILAYAH LEMBAH KLANG 1984 J.LID 1
SOURCE : URUSETIA PERANCANGAN LEMBAH KLANG (UPLK)
YEAR :

1027 TITLE : PELAN PERSPEKTIF WILAYAH LEMBAH KLANG , 1988 J.2
SOURCE : UPLK
YEAR :

1028 TITLE : SELANGOR INDUSTRIAL ACTION PLAN 1987, WORKING PAPER,
P/R 11, VOL.1,2
SOURCE : KNS
YEAR :

1029 TITLE : LAPORAN KIRAAN PERMULAAN PELIMINARY COUNT REPORT
(1991 CENSUS)
SOURCE : DEPARTMENT OF STATISTICS MALAYSIA
YEAR :

- 1030 TITLE : 1990 PERANGKAAAN STATISTIC
SOURCE : PORT KLANG
YEAR :
- 1031 TITLE : PORT KLANG
SOURCE :
YEAR :
- 1032 TITLE : THE FEASIBILITY STUDY REPORT ON CITY GAS DISTRIBUTION SYSTEMS
IN THE KELANG VALLEY AREA OF MALAYSIA
SOURCE : JICA
YEAR : MAY, 1987

2. AIR POLLUTION CONTROL

- 2001 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.1
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 2002 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.2
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 2003 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.3
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 2004 TITLE : ENVIRONMENTAL QUALITY ACT, 1974 (ACT 127) & SUBSIDIARY
LOGISLATIONS MADE THEREUNDER
SOURCE : INTERNATIONAL LAW BOOK SERVICE
YEAR : JAN.1991
- 2005 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL, 1987
- 2006 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
EXECUTIVE SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL, 1987
- 2007 TITLE : FIFTH MALAYSIAN PLAN (1986-1990) CHAPTER 15 (ENVIRONMENT)
SOURCE :
YEAR :
- 2008 TITLE : SIX MALAYSIA PLAN (1991-1995) CHAPTER XV (ENVIRONMENT)
SOURCE :
YEAR :

3. ATMOSPHERIC ENVIRONMENT

- 3001 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.1
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 3002 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.2
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 3003 TITLE : DEVELOPMENT OF CRITERIA AND STANDARDS FOR AIR QUALITY FINAL
REPORT Vol.3
SOURCE : DEPART OF ENVIRONMENT
YEAR : MAY 1989
- 3004 TITLE : AIR QUALITY MONITORING STATIONS MANAGED BY DOE
SOURCE :
YEAR :
- 3005 TITLE : STATUS OF MONITORING STATIONS FOR KLANG VALLEY
SOURCE :
YEAR :
- 3006 TITLE : AIR EQUIPMENT
SOURCE :
YEAR : MARCH 29, 1990
- 3007 TITLE : ANNUAL STATISTICS FOR SO₂, SPM, Pb
SOURCE :
YEAR :
- 3008 TITLE : MONITORING PROGRAM FOR HVS, 1990
SOURCE :
YEAR :
- 3009 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL 1987
- 3010 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
EXECUTIVE SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL 1987
- 3011 TITLE : ANNUAL SUMMARY OF METEOROLOGICAL OBSERVATIONS
SOURCE :
YEAR : 1987
- 3012 TITLE : ATMOSPHERIC POLLUTION IN MALAYSIA
SOURCE : INSTITUTE OF STRATEGIC AND INTERNATIONAL STUDIES
YEAR : 1991
- 3013 TITLE : MONITORING AND ASSESSMENT OF KUALA LUMPUR AMBIENT ATMOSPHERIC
CONCENTRATION OF CO, NO₂, SO₂ AND ITS CLIMATIC CONDITIONS
- A STUDY DURING TRAFFIC PEAK HOURS -
SOURCE : UPM
YEAR : UNKNOWN

- 3014 TITLE : DETERMINATION OF MIXING DEPTH OF LOWER ATMOSPHERE TROUGH
VERTICAL TEMPERATURE PROFILE OBSERVATION
SOURCE : UPM
YEAR : UNKNOWN
- 3015 TITLE : THE PRESENCE OF AIRBORNE POLYNUCLEAR AROMATIC HYDROCARBONS
IN KUALA LUMPUR
SOURC : UPM
YEAR : UNKNOWN
- 3016 TITLE : ANALYSIS ON PARTICULATE CONCENTRATION AND VARIATION
IN THE KELANG VALLEY, MALAYSIA - A CASE STUDY IN U.P.M -
SOURCE : UPM
YEAR : UNKNOWN
- 3017 TITLE : THE OCTOBER 1991 HAZE EPISODE
SOURCE : UPM
YEAR : 1992
- 3018 TITLE : A PRELIMINARY OBSERVATION OF NITROGEN DIOXIDE CONCENTRATOIN
IN SELECTED AREAS IN THE KLANG VALLEY, MALAYSIA
SOURCE : UPM
YEAR : UNKNOWN
- 3019 TITLE : AIR QUALITY MONITORING IN THE KLANG VALLEY, MALAYSIA
SOURCE : UPM
YEAR : UNKNOWN
- 3020 TITLE : A PRELIMINARY OBSERVATION OF SOME AIRBORNE PAH
IN KUALA LUMPUR, MALAYSIA
SOURCE : UPM
YEAR : UNKNOWN
- 3021 TITLE : THE TEMPORAL PATTERNS OF AIR POLLUTANTS IN THE KELANG
VALLEY, MALAYSIA AZMAN ZAINAL ABIDIN, MASAYASU HAYASI &
RIKITAKE INOUE
SOURCE :
YEAR : 1988
- 3022 TITLE : SOME OBSERVATIONS ON THE AIR QUALITY IN KAJANG
SOURCE : UPM
YEAR : UNKNOWN
- 3023 TITLE : INVESTIGATION ON THE TRANSPORT OF AIR POLLUTANTS
IN THE KELANG VALLEY, KUALA LUMPUR, MALAYSIA
SOURCE : UPM
YEAR : 1992
- 3024 TITLE : MALAYSIAN METEOROLOGICAL SERVICE, UNIVERSITY OF SCIENCE
MALAYSIA JOINT PROJECT ON BOUNDARY LAYER
SOURCE : MMS
YEAR : 1991
- 3025 TITLE : THE AUGUST 1990 HAZE IN MALAYSIA WITH SPECIAL REFERENCE
TO THE KELANG VALLEY REGION
SOURCE : MMS
YEAR : 1991

3026 TITLE : LEAD IN DRY DEPOSITION FROM SELECTED LOCATIONS IN MALAYSIA
SOURCE : MMS TECHNICAL NOTE NO.43
YEAR : 1990

3027 TITLE : THE USE OF WIND GUSTINESS AS A MEASURE OF DISPERSION
IN MALAYSIA
SOURCE : MMS TECHNICAL NOTE NO.43
YEAR : 1988

3028 TITLE : REPORT ON RAIN ACIDITY ANALYSIS BASED ON DATA
FROM THE NATIONAL ACID RAIN MONITORING NET WORK
SOURCE : MMS
YEAR : 1988

3029 TITLE : HAZE EPISODE OCTOBER 1991
SOURCE : MMS, INFORMATION PAPER NO.2
YEAR : 1991

3030 TITLE : ANNUAL SUMMARY OF AIR POLLUTION OBSERVATIONS
SOURCE : MMS
YEAR : 1983

3031 TITLE : ANNUAL SUMMARY OF AIR POLLUTION OBSERVATIONS
SOURCE : MMS
YEAR : 1985

3032 TITLE : ANNUAL SUMMARY OF AIR POLLUTION OBSERVATIONS
SOURCE : MMS
YEAR : 1986

3033 TITLE : ANNUAL SUMMARY OF AIR POLLUTION OBSERVATIONS
SOURCE : MMS
YEAR : 1987

3034 TITLE : THE PROBLEMS OF AIR POLLUTION IN MALAYSIA AND ITS EFFECTS
ON AGRICULTURAL AND HORTICULTURAL CROPS
SOURCE : THE FIRST JOINT CONFERENCE OF AIR POLLUTION STUDIES
IN ASIAN AREA. 1985, TOKYO
YEAR : 1985

3035 TITLE : CLIMATOLOGICAL DATA
SOURCE : MMS
YEAR : 1972 THROUGH 1991

3036 TITLE : A NEW MATHEMATICAL MODEL OF AIR POLLUTANT CONCENTRATION
AVERAGING TIME AND FREQUENCY
SOURCE : JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION VOL.19,
NO.1, P24, R.I.LARSEN
YEAR : 1969

3037 TITLE : AN AIR QUALITY DATA ANALYSIS SYSTEM FOR INTERRELATING
EFFECTS, STANDARDS, AND NEEDED SOURCE REDUCTIONS
SOURCE : JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION VOL.23,
NO.11, P933, R.I.LARSEN
YEAR : 1973

3038 TITLE : AN AIR QUALITY DATA ANALYSIS SYSTEM FOR INTERRELATING
EFFECTS, STANDARDS, AND NEEDED SOURCE REDUCTIONS - PART 2
SOURCE : JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION VOL.24,
NO.6, P551, R.I.LARSEN

4. POLLUTANT SOURCES (FACORIES)

- 4001 TITLE : AIR POLLUTANT EMISSION SOURCE SURVEY [KLAN G&P.KLANG]
SOURCE : DOE
YEAR :
- 4002 TITLE : AIR POLLUTANT EMISSION SOURCE SURVEY [PETALING JAYA,
SUBANG JAYA]
SOURCE : DOE
YEAR :
- 4003 TITLE : AIR POLLUTANT EMISSION SOURCE SURVEY [SHAH ALAM]
SOURCE : DOE
YEAR :
- 4004 TITLE : AIR POLLUTANT EMISSION SOURCE SURVEY [SELANGOR(1),(2)]
SOURCE : DOE
YEAR :
- 4005 TITLE : AIR POLLUTANT EMISSION SOURCE SURVEY [KUALA LUMPUR]
SOURC : DOE
YEAR :
- 4006 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL 1987
- 4007 TITLE : KELANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT EXECUTIVE
SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA , ASIAN DEVELOPMENT BANK
YEAR : APRIL 1987
- 4008 TITLE : GUIDELINES FOR THE SITING AND ZONING OF INDUSTRIES
APPENDIX "A"
SOURCE :
YEAR :
- 4009 TITLE : ENERGY DEMAND AND SUPPLY
SOURCE : PETROLIAM NASIONAL BERHAD (PETRONAS)
YEAR : APRIL 1992
- 4010 TITLE : TREND AND DEVELOPMENT IN PETROLEUM FUELS QUALITY IN MALAYSIA
SOURCE : PETROLEUM RESEARCH INSTITUTE
YEAR : SEPTEMBER, 1991
- 4011 TITLE : THE RATIO FOR PRIMAS/PRIMA
SOURCE : PETROLIAM NASIONAL BERHAD
YEAR : APRIL 1992
- 4012 TITLE : COMPILATION OF AIR POLLUTANT EMISSION FACTORS (SECOND EDITION)
SOURCE : U.S.ENVIRONMENTAL PROTECTION AGENCY
YEAR : APRIL 1973
- 4013 TITLE : COMPILATION OF AIR POLLUTANT EMISSION FACTORS (FOURTH EDITION)
VOLUME 1
SOURC : U.S.ENVIRONMENTAL PROTECTION AGENCY
YEAR : SEPTEMBER 1985

- 4014 TITLE : ENVIRONMENTAL PROTECTION IN COAL UTILISATION AND ITS PROBLEMS
AT SULTAN SALAHUDDIN POWER STATION
SOURCE : LIM CHIN BOCK (TNB)
YEAR : NOVEMBER 1990
- 4015 TITLE : OPERATING HOURS FUEL OIL AND COAL CONSUMPTION AT SULTAN
SALAHUDDIN ABDUL AZIZ POWER STATION
SOURCE : TNS (KAPAR)
YEAR : AUG., 1992
- 4016 TITLE : EIGHTH INTERNATIONAL TURBOMACHINERY MAINTENANCE CONGRESS
12TH : 16TH
SOURCE : TNB (CONNAUGHT BRIDGE POWER STATION)
YEAR : OCT., 1992
- 4017 TITLE : THE FEASIBILITY STUDY OF CITY GAS DISTRIBUTION SYSTEM
IN THE KELANG VALLEY AREA OF MALAYSIA
SOURCE : JAPAN INTERNATIONAL COOPERATION AGENCY
YEAR : JAN., 1987
- 4018 TITLE : ENVIRONMENTAL IMPACT ASSESSMENT
SOURCE : TENAGA NASIONAL BERHAD
YEAR : JUNE, 1991
- 4019 TITLE : PACKETBOOK OF PALM OIL USES FIRST REVISION
SOURCE : PALM OIL RESEARCH INSTITUTE OF MALAYSIA
MINISTRY OF PRIMARY INDUSTRIES MALAYSIA
YEAR : JUNE, 1988
- 4020 TITLE : CHIMNY HEIGHTS
YJOTFRFOYOPM PG YJR 2956 CLEAN AIR ACT MEMORANDUM
SOURCE : DEPARTMENT OF THE ENVIRONMENT SCOTTISH DEPARTMENT,
WELSH OFFICE
YEAR : 1956
- 4021 TITLE : MALAYSIA HANDBOOK
SOURCE : THE JAPANESE CHAMBER OF TRADE & INDUSTRY, MALAYSIA
YEAR : JULY, 1992

5. POLLUTANT SOURCES (MOTOR VEHICLES)

- 5001 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL, 1987
- 5002 TITLE : KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT EXECUTIVE
SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL, 1987
- 5003 TITLE : ENERGY DEMAND / SUPPLY
SOURCE : PETROLIAM NASIONAL BERHAD (PETRONAS)
YEAR : APRIL, 1992
- 5004 TITLE : TREND AND DEVELOPMENT IN PETROLEUM FUELS QUALITY IN MALAYSIA
SOURCE : PETROLEUM RESEARCH INSTITUTE
YEAR : SEPTEMBER, 1991

5005 TITLE : MINISTRY OF TRADE
SOURCE : PETRONAS MAGAZINE DEVISION
YEAR : 1990

5006 TITLE : ENVIRONMENTAL QUALITY REPORT 1988
SOURCE : DEPARTMENT OF ENVIRONMENT
YEAR :

5007 TITLE : COMPILATION OF AIR POLLUTANT EMISSION FACTORS
(9THIRD EDITION)
SOURCE : U.S. ENVIRONMENTAL PROTECTION AGENCY
YEAR : AUGUST, 1997

5008 TITLE : COMPILATION OF AIR POLLUTANT EMISSION FACTORS
(FOURTH EDITION) VOLUME 2: MOBIL SOURCES
SOURCE : U.S. ENVIRONMENTAL PROTECTION AGENCY
YEAR : SEPTEMBER, 1985

5009 TITLE : PENGIRAAN PEIEPASAN BEBAN
PEMBAKARAN BAHANAPI PUNCC BERGERAK
SOURCE : DOE
YEAR :

5010 TITLE : STUDY OF VEHICULAR TRAFFIC VOLUME AND EXHAUST GAS EMISSION
IN TOKYO
SOURCE : TOKYO METROPOLITAN GOVERNMENT
YEAR : 1982

5011 TITLE : VEHICULAR POLLUTION HANDBOOK
SOURCE : tokyo metropolitan government
year : 1980

5012 TITLE : A EMISSION AND FUEL USAGE COMPUTE MODEL FOR TRUCK AND BUSES
SOURCE : SAE PAPER 780630
YEAR : 1978

5013 TITLE : 91/441/EEC
SOURCE : E.E.C.
YEAR : AUGUST 30, 1991

6. POLLUTANT SOURCES (TRAFFIC VOLUME)

6001 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL.1987

6002 TITLE : KELANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT EXECUTIVE
SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL.1987

6003 TITLE : TRAFFIC CENSUS FOR SELANGOR AND KUALA LUMPUR (AN EXTRACT)
SOURCE :
YEAR :

6004 TITLE : ROAD TRAFFIC VOLUME MALAYSIA 1990
SOURCE : HIGHWAY PLANNING UNIT, MINISTRY OF WORKS MALAYSIA
YEAR : 1991

- 6005 TITLE : TECHNICAL REPORT A-3 TRAFFIC SURVEY, KELANG VALLEY
TRANSPORTATION STUDY
SOURCE : HIGHWAY PLANNING UNIT, MINISTRY OF WORKS MALAYSIA
YEAR : 1987
- 6006 TITLE : ANNUAL STATISTICAL BULLETIN
SOURCE : RTD
YEAR : 1986-1991
- 6007 TITLE : KELANG VALLEY TRANSPORTATION STUDY FINAL REPORT MAIN VOLUME
SOURCE : japan international cooperation agency
YEAR : MARCH, 1987
- 6008 TITLE : THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS
ON KELANG VALLEY
SOURCE : JICA
YEAR : JUNE, 1989

7. POLLUTANT SOURCES (AIRCRAFT, HOUSEHOLD)

- 7001 TITLE : REPORT ON KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT
CHAPTER 4 (AIR QUALITY MANAGEMENT)
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL.1987
- 7002 TITLE : KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT EXECUTIVE
SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR : APRIL.1987
- 7003 TITLE : ENERGY DEMAND AND SUPPLY
SOURCE : PETROLIAM NASIONAL BERHAD (PETRONAS)
YEAR : APRIL 1992

8. GENERAL ENVIRONMENT

- 8001 TITLE : KLANG VALLEY ENVIRONMENTAL IMPROVEMENT PROJECT EXECUTIVE
SUMMARY
SOURCE : GOVERNMENT OF MALAYSIA, ASIAN DEVELOPMENT BANK
YEAR :
- 8002 TITLE : ENVIRONMENTAL QUALITY REPORT, MALAYSIA
SOURCE : DOE
YEAR : 1987
- 8003 TITLE : ENVIRONMENTAL QUALITY REPORT, MALAYSIA
SOURCE : DOE
YEAR : 1988
- 8004 TITLE : ENVIRONMENTAL QUALITY REPORT, MALAYSIA
SOURCE : DOE
YEAR : 1989
- 8005 TITLE : FIFTH MALAYSIA PLAN (1986-1990) CHAPTER 9 (ENVIRONMENT)
SOURCE :
YEAR :

8006 TITLE : SIXTH MALAYSIA PLAN (1991-1995) CHAPTER 15 (ENVIRONMENT)
SOURCE :
YEAR :

8007 TITLE : A HANDBOOK OF ENVIRONMENTAL IMPACT ASSESSMENT GUIDELINES
SOURCE : DOE
YEAR : 1989

8008 TITLE : MANUAL ON REGULATION OF TOTAL EMISSION OF NITROGEN OXIDES
SOURCE : AIR QUALITY BUREAU, ENVIRONMENT AGENCY, JAPAN
YEAR :

8009 TITLE : ENVIRONMENTAL QUALITY REPORT, MALAYSIA
SOURCE : DOC
YEAR : 1991

