



Laporan Tahunan 2009 Annual Report



JABATAN ALAM SEKITAR
KEMENTERIAN SUMBER ASLI DAN ALAM SEKITAR
DEPARTMENT OF ENVIRONMENT
MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT

© Kementerian Sumber Asli Dan Alam Sekitar Malaysia
© Ministry of Natural Resources and Environment, Malaysia

Hakcipta 2009 JAS
Copyright 2009 DOE

Penerbitan ini boleh diterbitkan semula keseluruhan atau sebahagiannya, bagi tujuan pendidikan atau tujuan-tujuan yang tidak memberi keuntungan tanpa persetujuan daripada pemilik hakcipta, dengan syarat penghargaan diberi kepada sumber berkenaan dan senaskah terbitan yang menggunakan terbitan ini sebagai sumber dikemukakan kepada Jabatan Alam Sekitar. Terbitan ini tidak boleh diterbitkan untuk jualan atau untuk apa-apa tujuan perniagaan tanpa terlebih dahulu mendapat kebenaran bertulis daripada Jabatan Alam Sekitar.

This publication may be reproduced in whole or in part and in any form for educational or non-profit purpose without special permission from the copyright holder, provide acknowledgement of the source is made and a copy is sent to the Department of Environment. No use of this publication may be made for resale or any other commercial purpose whatsoever without prior permission in writing from the Department of Environment.

Disunting oleh:

Seksyen Penerbitan
Bahagian Komunikasi Strategik
Jabatan Alam Sekitar
Kementerian Sumber Asli Dan Alam Sekitar Malaysia
Malaysia

Edited by:

Publication Section
Strategic Communications Division
Department of Environment
Ministry of Natural Resources and Environment, Malaysia
Malaysia

ISBN 983-9119-77-X

Rekabentuk dan dicetak oleh / Design and printed by

Misas Advertising Sdn. Bhd.
No. 30, Jalan 423B,
Taman Danau Kota,
53300, Kuala Lumpur
Tel : 03-4024 2004
Faks : 03-4024 2004
Email : masb_30@yahoo.com

Kandungan / Contents

Prakata / Foreword	8
Visi / Vision	10
Misi / Mission	10
Strategi / Strategic	10
Bab 1 / Chapter 1	11
- Majlis Kualiti Alam Sekeliling (EQC) Environmental Quality Council (EQC)	12
Bab 2 / Chapter 2	15
- Pengurusan Sumber Manusia Dan Kewangan Human Resources and Financial Management	16
Bab 3 / Chapter 3	23
- Penilaian Kesan Kepada Alam Sekeliling dan Input Kepada Perancangan Pembangunan Environmental Impact Assessment and Input for Development	24
Bab 4 / Chapter 4	39
- Pengawasan Kualiti Udara / Air Quality Monitoring	40
- Pengawasan Bunyi Bising / Noise Monitoring	43
- Protokol Montreal Perlindungan Lapisan Ozon Montreal Protocol for the Protection of Ozone Layer	46
- Program Pencegahan Pencemaran dan Peningkatan Kualiti Air Sungai River Pollution Prevention and River Water Quality Improvement Programme	55
- Kawalan Terhadap Premis Yang Ditetapkan / Control of Prescribed Premises	62
- Kawalan Terhadap Premis Yang Bukan Ditetapkan / Control of Non-Prescribed Premises	66
- Pengawasan Kualiti Air Marin / Marine Water Quality Monitoring	74
- Pengawasan Kualiti Air Marin Pulau-Pulau / Island Marine Water Quality Monitoring	81
- Program Pengawasan Kualiti Air Daratan (Sungai) / Surface Water (River) Quality Monitoring Programme	86
- Pemantauan Kualiti Air Tanah / Groundwater Quality Monitoring	99
- Rancangan Kontigensi Kebangsaan Kawalan Tumpahan Minyak (RKKKTM) / National Oil Spill Contingency Plan (NOSCP)	100
- Jawatankuasa Tabung Pusingan Bagi Selat Melaka Dan Selat Singapura (RFC) / Straits of Malacca and Singapore Revolving Fund Committee (RFC)	102
- Pencemaran Marin / Marine Pollution	104

- Pengurusan Buangan Terjadual / Scheduled Wastes Management	105
- Skim Notifikasi Dan Pendaftaran Bahan-Bahan Berbahaya Alam Sekeliling (EHSNR) / Environmentally Hazardous Substance Notification and Registration Scheme (EHSNR)	108
- Penguatkuasaan Terhadap Aktiviti Pembakaran Terbuka / Enforcement Against Open Burning Activities	109
- Punca-Punca Bergerak Kenderaan Bermotor / Mobile Sources (Motor Vehicles)	111
- Tindakan Undang-Undang / Legal Action	118
- Maklumat Terhadap Pengaduan Awam / Response to Public Complaints	121
Bab 5 / Chapter 5	123
- Promosi Kesedaran dan Pendidikan Alam Sekitar / Promotion of Environmental Education and Awareness	124
- Bandar Lestari – Anugerah Alam Sekitar / Sustainable City – Environmental Award	124
- Pertandingan Debat Alam Sekitar Antara Institusi Pengajian Tinggi (IPT) / Inter-Varsity Environmental Debate Among Institutions of Higher Learning (IPT)	125
- Sekolah Lestari – Anugerah Alam Sekitar / Sustainable School – Environment Award	128
- Sebaran Maklumat Alam Sekitar / Environmental Information Dissemination	135
Bab 6 / Chapter 6	141
- Hal-Ehwal Alam Sekitar Antarabangsa – Kerjasama Dua Hala / International Environmental Affairs – Bilateral Cooperation	142
Bab 7 / Chapter 7	147
- Bahagian Teknologi Maklumat / Information Technology Division	148
Bab 8 / Chapter 8	153
- Institut Alam Sekitar Malaysia (EIMAS) / Environment Institute of Malaysia (EIMAS)	154
Bab 9 / Chapter 9	163
- Teknologi Bersih / Cleaner Production	164

Singkatan / Abbreviations

Bank Pembangunan Asia	ADB	Asian Development Bank
Tahun Alam Sekitar ASEAN	AEY	ASEAN Environment Year
Akta Kualiti Alam Sekeliling	AKAS	Environmental Quality Act
Mesyuarat Menteri-Menteri ASEAN Mengenai Alam Sekitar	AMME	ASEAN Ministerial Meeting on the Environment
Pertubuhan Negara-Negara Asia Tenggara	ASEAN	Association of South East Asian Nations
Pegawai Kanan Alam Sekitar ASEAN	ASOEN	ASEAN Senior Officials on the Environment
Area Watch and Sanction Inspection	AWASI	Area Watch and Sanction Inspection
Buangan Terjadual	BT	Scheduled Wastes
Brunei-Indonesia-Malaysia-Filipina	BIMP	Brunei-Indonesia-Malaysia-Philippines
Keperluan Oksigen Biokimia	BOD	Biochemical Oxygen Demand
Bahan Pemusnah Ozon	BPO	Ozone Depleting Substances
Udara Bersih	CA	Clean Air
Pusat bagi Alam Sekitar, Teknologi dan Pembangunan Malaysia	CETDEM	Centre For Environmental, Technology and Development Malaysia
Kloroflourokarbon	CFC	Chlorofluorocarbon
Majlis Industri Kimia Malaysia	CICM	Chemical Industries Council of Malaysia
Pusat Pengurusan Pantai	CMC	Coastal Management Centre
Badan Penyelaras Mengenai Laut Asia Timur	COBSEA	Co-ordinating Body for the Seas of East Asia
Keperluan Oksigen Kimia	COD	Chemical Oxygen Demand
Kelapa Sawit Mentah	CPO	Crude Palm Oil
Desibel	dB	Decibel (s)
Jabatan Alam Sekitar	DOE	Department of Environment
Sistem Pengurusan Dokumen	DOKUMAS	Document Management System
Kawasan Pertumbuhan ASEAN Timur	EAGA	East ASEAN Growth Area
Escherichia coli	E.coli	Escherichia coli
Zon Ekonomi Eksklusif	EEZ	Exclusive Economic Zone
Penilaian Kesan Kepada Alam Sekeliling	EIA	Environmental Impact Assessment
Persatuan Perlindungan Alam Sekitar Malaysia	EPSM	Environment Protection Society of Malaysia
Unit Perancang Ekonomi	EPU	Economic Planning Unit
Majlis Kualiti Alam Sekeliling	EQC	Environmental Quality Council
Laporan Kualiti Alam Sekeliling	EQR	Environmental Quality Report
Pesuruhjaya Ekonomi & Sosial Asia Pasifik	ESCAP	Economic & Social Commission for Asia and the Pacific
Institut Alam Sekitar Malaysia	EiMAS	Environment Institute of Malaysia
Ahli Mesyuarat Kerajaan Negeri	EXCO	Executive Councillors
Persatuan Pekilang-Pekilang Malaysia	FMM	Federation of Malaysian Manufacturers
Persatuan Pertubuhan Pengguna-Pengguna Malaysia	FOMCA	Federation of Malaysian Consumer's Association
Institut Penyelidikan Hutan Malaysia	FRIM	Forest Research Institute of Malaysia
Gabungan Persatuan-Persatuan Perdagangan Getah Malaysia	FRTM	Federation of Rubber Trade Association of Malaysia

Singkatan / Abbreviations

Kemudahan Alam Sekitar Global	GEF	Global Environment Facility
Sistem Maklumat Geografik	GIS	Geographical Information System
Hidro Klorofluorokarbon	HCFC	Hydro Chlorofluorocarbon
Pengurusan Zon Pantai Bersepadu	ICZM	Integrated Coastal Zone Management
Unit Asap Hartridge	HSU	Hartridge Smoke Unit
Institut Diplomasi & Hal Ehwal Luar	IDHL	Institute of Diplomacy & Foreign Relations
Indeks Kualiti Air Negara	IKAN	National Water Quality Index
Organisasi Maritim Antarabangsa	IMO	International Maritime Organisation
Sistem Rujukan Antarabangsa Untuk Sumber-Sumber Maklumat Mengenai Alam Sekitar	INFOTERRA	International Referral System for Sources of Environmental Information
Institut Tadbiran Awam Negara	INTAN	National Institute of Public Administration
Program Antarabangsa mengenai Keselamatan Bahan Kimia	IPCS	International Programme on Chemical Safety
Pendaftaran Antarabangsa bagi Bahan Kimia yang Berpotensi Berbahaya	IRPTC	International Register of Potentially Toxic Chemicals
Institut Kajian Strategik dan Antarabangsa	ISIS	Institute of Strategic and International Studies
Agensi Kerjasama Antarabangsa Jepun	JICA	Japan International Co-operation Agency
Jabatan Perkhidmatan Awam	JPA	Public Service Department
Jabatan Pengairan dan Saliran Malaysia	JPS	Department of Irrigation and Drainage Malaysia
Kementerian Sains, Teknologi & Inovasi	MOSTI	Ministry of Science, Technology and Innovation
Kumbahan & Effluen-Effluen Perindustrian	KEEP	Sewage & Industrial Effluents
Kilang Kelapa Sawit Mentah	KKSM	Crude Palm Oil Mill
Penyaman Udara Kenderaan	MAC	Mobile Air Conditioning
Agensi Remote Sensing Malaysia	MACRES	Malaysian Remote Sensing Agency
Minggu Alam Sekitar Malaysia	MASM	Malaysia Environment Week
Menteri dan Ahli Majlis Mesyuarat Kerajaan Negeri yang Bertanggungjawab ke atas Alam Sekitar	MEXCOE	Ministers and State Executive Councillors Responsible for Environmental Matters
Dewan Perdagangan dan Industri Antarabangsa Malaysia	MICCI	Malaysian International Chamber of Commerce and Industry
Institut Penyelidikan Ekonomi Malaysia	MICCI	Malaysian Institute of Economic Research
Agensi Nuklear Malaysia	MINT	Malaysia Nuclear Agency
Persatuan Pemasang Kenderaan Bermotor Malaysia	MMVAA	Malaysian Motor Vehicle Assemblers' Association
Persatuan Pencinta Alam Malaysia	MNS	Malaysian Nature Society
Kementerian Perdagangan Antarabangsa Dan Industri	MITI	Ministry of International Trade and Industry
Pertubuhan Kelapa Sawit Malaysia	MPOA	Malaysian Palm Oil Association
Kementerian Pertanian & Industri Asas Tani	MOA	Ministry of Agriculture & Agro-Based Industry
Kementerian Kesihatan	MOH	Ministry of Health
Kementerian Pembangunan Sumber Manusia	MOHR	Ministry of Human Resources
Kementerian Pengangkutan	MOT	Ministry of Transport

Singkatan / Abbreviations

Memorandum Persefahaman	MOU	Memorandum of Understanding
Majlis Pengeluar-Pengeluar Getah Malaysia	MRPC	Malaysia Rubber Products Manufacturers' Council
Jawatankuasa Bersama Malaysia-Singapura Mengenai Alam Sekitar	MSJCE	Malaysia – Singapore Joint Committee on the Environment
Pertubuhan Bukan Kerajaan	NGO	Non-Governmental Organisation
Kementerian Sumber Asli Dan Alam Sekitar	NRE	Ministry of Natural Resources and Environment
Amoniakal Nitrogen	NH ₃ N	Ammoniacal Nitrogen
Pertubuhan Kerjasama Ekonomi dan Pembangunan	OECD	Organisation for Economic Co-operation and Development
Pertubuhan Kerjasama Alam Sekitar bagi Laut Asia Timur	PEMSEA	Partnership in Environmental Management for the Seas of East Asia
Kebenaran Maklumat Awal	PIC	Prior Informed Consent
Persatuan Pekilang-Pekilang Minyak Kelapa Sawit Malaysia	POMA	Palm Oil Millers' Association
Institut Penyelidikan Minyak Kelapa Sawit	PORIM	Palm Oil Research Institute of Malaysia
Ringgit Malaysia	RM	Ringgit Malaysia
Institut Penyelidikan Getah Malaysia	RRIM	Rubber Research Institute of Malaysia
Urusetia Konvensyen BASEL	SBC	Secretariat for BASEL Convention
Agensi Pembangunan Antarabangsa Sweden	SIDA	Swedish International Development Agency
Institut Standard dan Penyelidikan Industri Malaysia	SIRIM	Standards Industrial Research Institute of Malaysia
Udara Bersih	UB	Clean Air
Universiti Islam Antarabangsa Malaysia	UIA	International Islamic University of Malaysia
Universiti Kebangsaan Malaysia	UKM	National University of Malaysia
Universiti Malaya	UM	University of Malaya
Persidangan Bangsa-Bangsa Bersatu Mengenai Alam Sekitar dan Pembangunan	UNCED	United Nations Conference on Environment and Development
Program Pembangunan Bangsa-Bangsa Bersatu	UNPD	United Nations Development Programme
Program Alam Sekitar Bangsa-Bangsa Bersatu	UNEP	United Nations Environment Programme
Universiti Tenaga Nasional	UNITEN	University of Tenaga Malaysia Nasional
Unit Perancang Ekonomi	UPE	Economic Planning Unit
Universiti Putra Malaysia	UPM	University of Putra Malaysia
Universiti Sains Malaysia	USM	University of Science Malaysia
Yang Berhormat	Y.B.	The Honourable
Polis Diraja Malaysia	PDRM	Royal Malaysian Police
Kandungan Organik Meruap	VOCs	Volatile Organic Compounds
Wilayah Kualiti Air	WQR	Water Quality Region



Prakata

Saya dengan berbesar hati membentangkan Laporan Tahunan Jabatan Alam Sekitar (JAS) bagi tahun 2009 dan aktiviti-aktiviti serta pencapaian tahun lepas.

Selari dengan visi Jabatan ini, 'Pemuliharaan Alam Sekitar Untuk Kesejahteraan Rakyat' dan misi 'Memastikan Pembangunan Lestari di dalam Proses Memajukan Negara', JAS meneruskan mandat yang diberi untuk mentadbir Akta Kualiti Alam Sekeliling, 1974. Bagi memperkukuhkan lagi kerja-kerja penguatkuasaan, tiga (3) peraturan baru telah digubal dan mula dikuatkuasa pada 10 Disember 2009. Peraturan-peraturan tersebut ialah Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009, Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pencemaran Daripada Stesen Pemindahan Sisa Pepejal dan Kambus Tanah) 2009 dan Peraturan-Peraturan Kualiti Alam Sekeliling (Efluen Perindustrian), 2009. Pada 1 September 2009, Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Kandungan Petrol dan Diesel), 2007 mula dikuatkuasa bersama-sama dengan pengenalan EURO2M di Malaysia.

Foreword

I am pleased to present the 2009 Annual Report of the Department of Environment (DOE) and its activities and accomplishments for the year under review.

In line with the department's vision, 'Environmental Conservation for the Well-being of the People' and mission 'To Ensure Sustainable Development in the Process of Nation Building', DOE continues its mandate to administer the Environmental Quality Act, 1974. To strengthen its enforcement efforts, three (3) new regulations were enacted and enforced on 10 December 2009. These regulations are the Environmental Quality (Sewage) Regulations 2009, the Environmental Quality (Control of Pollution From Solid Waste Transfer Station And Landfill) Regulations, 2009 and the Environmental Quality (Industrial Effluent) Regulations 2009. On 1 September 2009, the Environmental Quality (Control of Petrol and Diesel Properties) Regulations, 2007 came into force and the introduction of EURO2M in Malaysia.

Penekanan yang berterusan diberi dalam mencegah dan mengawal pencemaran air, pencemaran udara dan pengurusan buangan terjadual. Pemeriksaan ke atas punca-punca pencemaran dan tindakan undang-undang telah diambil ke atas mereka yang melakukan kesalahan.

JAS terus mempromosi program kesedaran dan pendidikan alam sekitar kepada setiap peringkat masyarakat. Pada tahun 2009, Jabatan ini telah melaksanakan Program Rakan Alam Sekitar (RAS) yang melibatkan penyertaan pemimpin-pemimpin masyarakat setempat dalam aktiviti-aktiviti pemeliharaan dan pemuliharaan alam sekitar di kawasan masing-masing.

Keperluan menyediakan alam sekitar yang selamat, sihat dan lestari merupakan tugas yang mencabar, tetapi JAS yakin dengan sokongan dan komitmen yang diberikan oleh semua pihak untuk bertindak dengan cara yang lebih mesra alam akan membantu mencapai alam sekitar yang sihat dan lestari serta meningkatkan kualiti kehidupan.

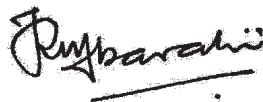
Salam Sejahtera

Continued emphasis is given to the prevention and controlling water pollution, air pollution and scheduled waste management. Inspections on polluting sources and legal actions are taken against the perpetrators.

DOE continues to promote environmental education and awareness programs to every level of society. In 2009, the Department has implemented the Rakan Alam Sekitar (RAS) program which involves the participation of local community leaders in environmental conservation and protection activities in their respective areas.

The need to have a safe, healthy and sustainable environment remains a challenging task, but DOE is confident that with the support and commitment given from all parties to act in a more environmental friendly manner will help to achieve a sustainable, healthy environment and enhanced quality of life,

With Best Wishes



Dato' Hajah Rosnani Ibrahim
Ketua Pengarah Alam Sekitar Malaysia
Director-General of Environmental Quality Malaysia

Visi / Vision

Pemuliharaan Alam Sekitar Untuk Kesejahteraan Rakyat
Environmental Conservation for the Well-being of the People

Misi / Mission

Memastikan Pembangunan Lestari di dalam Proses
Memajukan Negara

To Ensure Sustainable Development in the Process
of Nation Building

Strategi / Strategies

- Pembangunan Lestari melalui Pemuliharaan Sumber Semulajadi
Sustainable Development through Conservation of Resources
- Integrasi Faktor Alam Sekitar dalam Perancangan Pembangunan
Integration of Environmental Factors in Development Planning
- Pencegahan dan Kawalan Pencemaran
Pollution Prevention and Control
- Promosi Pendidikan dan Kesedaran Alam Sekitar
Promotion of Environmental Education and Awareness
- Kerjasama antara Agensi dan Persekutuan Negeri
Inter-Agency and Federal-State Cooperation
- Penyertaan Awam dalam Pengurusan Alam Sekitar
Public Participation in Environmental Management
- Kerjasama dan Hubungan Dua Hala, Serantau dan Antarabangsa
Bilateral, Regional and International Cooperation