



KEMENTERIAN SUMBER ASLI,
ALAM SEKITAR DAN PERUBAHAN IKLIM
Ministry of Natural Resources,
Environment and Climate Change

JABATAN ALAM SEKITAR
Department of Environment



Jabatan Alam Sekitar

BUKU KOMPENDIUM

2022

02



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Environment and Climate Change

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2022

BUKU KOMPENDIUM 2022



Department of Environment, Malaysia
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PRAKATA / PREFACE

Assalamu'alaikum Warahmatullahi Wabarakatuh dan Salam Sejahtera.

Saya mengucapkan setinggi-tinggi penghargaan atas kerjasama dan sumbangan yang telah diberikan oleh semua warga Jabatan Alam Sekitar yang membawa kepada penerbitan Buku Kompendium JAS 2022 ini.

Buku Kompendium JAS ini adalah himpunan maklumat mengenai aktiviti JAS yang telah dijalankan sehingga berakhir Disember 2022.

Maklumat seperti kualiti udara, kualiti air sungai, kualiti air marin dan pulau-pulau, kualiti air tanah dan pengurusan bahan berbahaya boleh didapati dalam Buku Kompendium ini bagi tujuan kajian, rujukan atau pembelajaran.

Penerbitan kompendium merupakan salah satu inisiatif penting JAS bagi perkongsian maklumat dan pencapaian dalam pengurusan alam sekitar di Malaysia.

Adalah diharapkan agar kompendium ini dapat dimanfaatkan dan digunakan dengan sebaik mungkin oleh semua pihak.

Sekian, terima kasih.

Assalamu'alaikum Warahmatullahi Wabarakatuh and Greetings,

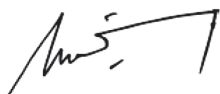
I would like to express my deepest appreciation to all the Department of Environment (DOE) Officers for their cooperation and contributions in the effort to publish the DOE Compendium Book 2022.

This Compendium Book is a compilation of information about DOE's activities and program which have been carried out until December 2022. Information on air quality, river water quality, marine and island water quality, groundwater quality, and scheduled wastes management can be found in this Compendium Book for research, reference, or learning purposes.

The publication of this compendium is a significant initiative by DOE in sharing information and achievements of the department in environmental management in Malaysia.

It is hoped that this compendium would benefit various government departments/ agencies, private sectors, academia, university/ school students and the general public who intend to gather information about our department.

Thank you.



DATO' WAN ABDUL LATIFF BIN WAN JAFFAR
Ketua Pengarah Kualiti Alam Sekeliling, Malaysia
Director General of Environmental Quality, Malaysia



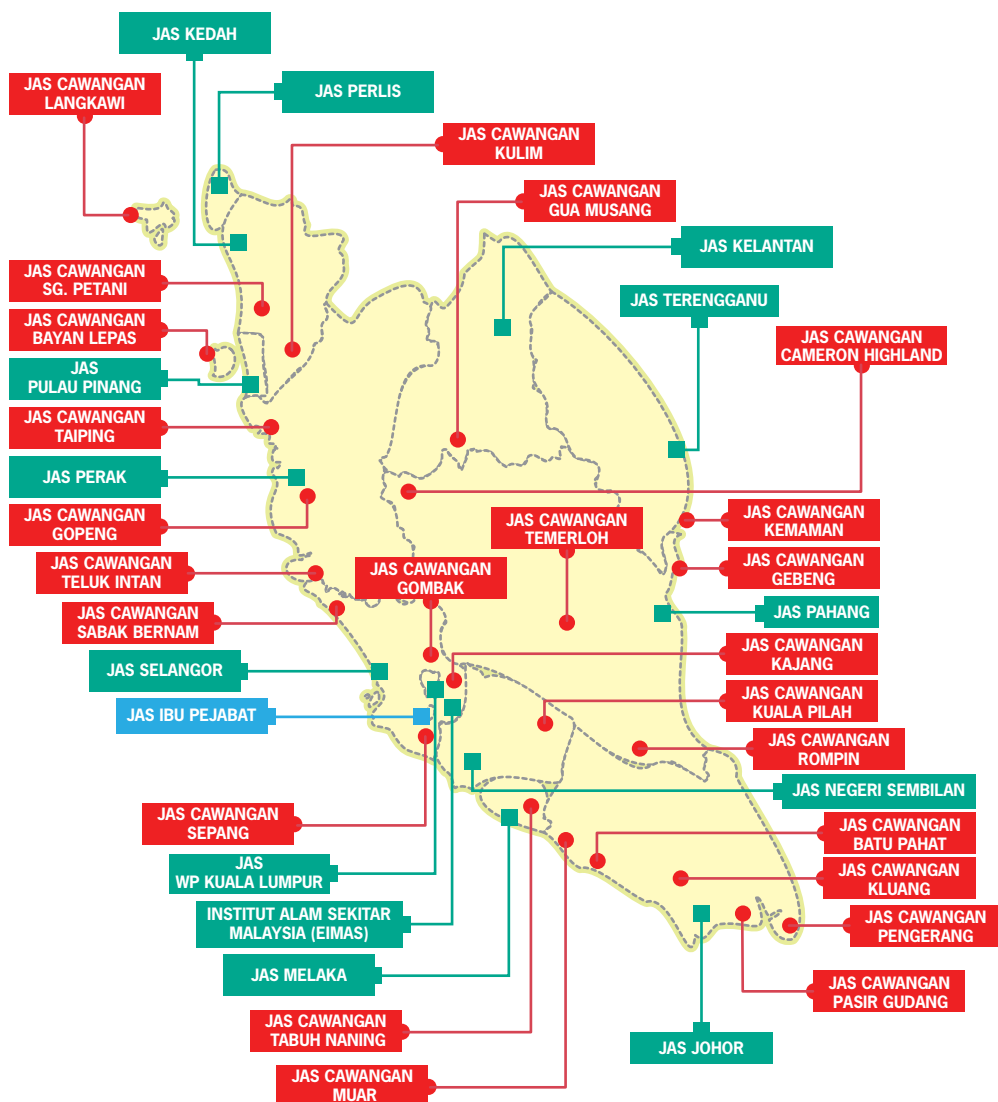
JABATAN ALAM SEKITAR: PENGENALAN / DEPARTMENT OF ENVIRONMENT: INTRODUCTION

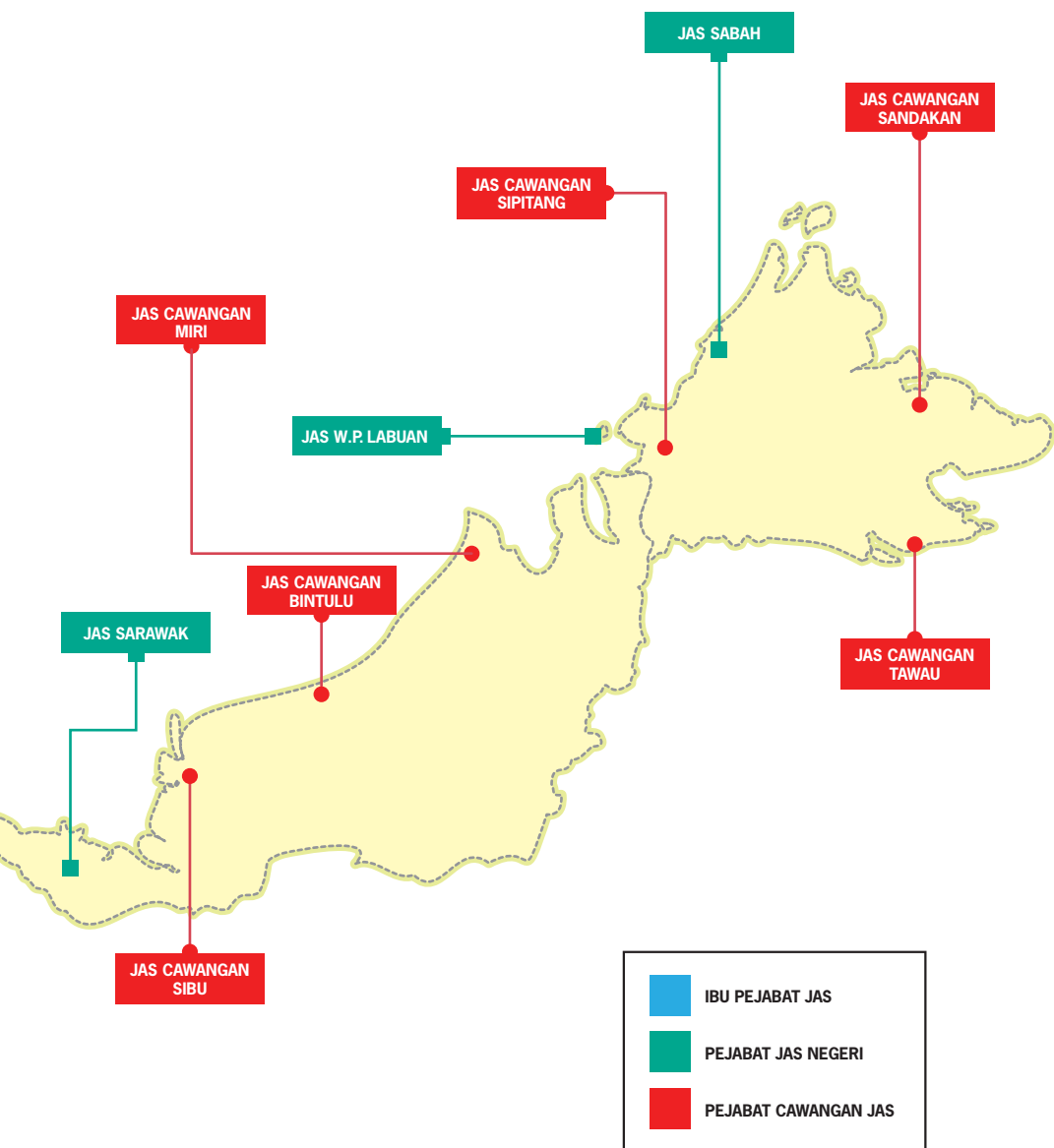
Pengurusan alam sekitar di Malaysia telah menjadi lebih sistematik apabila Akta Kualiti Alam Sekeliling (AKAS) 1974 diwartakan pada 14 Mac 1974. Turutan daripada itu, sebuah agensi penguatkuasa, Bahagian Alam Sekitar (mula dikenali sebagai Jabatan Alam Sekitar pada tahun 1983) telah ditubuhkan pada tahun 1975. Berakhir 2022, Jabatan Alam Sekitar (JAS) mempunyai 1435 tenaga kerja yang ditempatkan di Ibu Pejabat, 16 buah Pejabat Negeri dan 30 buah Pejabat Cawangan di seluruh negara. Fungsi utama JAS ialah untuk mencegah, menghapus, mengawal dan membaiki alam sekeliling melalui penguatkuasaan AKAS 1974 dan peraturan-peraturan di bawahnya.

Environmental management in Malaysia became more systematic with the gazettment of the Environmental Quality Act (EQA) 1974 on 14 March 1974. From thereon, an enforcement agency named Environment Division (known as Department of Environment (DOE) in 1983) was institutionalized in 1975. At present (2022), the Department is empowered with 1435 staffs, extending its operation through Headquarters, 16 States Offices dan 30 Branch Offices. The Department's main role is to prevent, control and abate pollution through the enforcement of the EQA 1974 and its subsidiary legislations made there under.



Ibu Pejabat, Pejabat Negeri dan Cawangan JAS Seluruh Malaysia Head Offices, State Offices and DOE Branches Throughout 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



Pencegahan dan
Kawalan Pencemaran /
Pollution Prevention
and Control

Kerjasama dan
Hubungan Dua Hala,
Serantau dan
Antarabangsa /
Bilateral, Regional
and International
Cooperation

Kerjasama
Antara Agensi dan
Persekutuan Negeri /
Inter-Agency and
Federal State
Cooperation

Promosi
Pendidikan dan
Kesedaran Alam Sekitar /
Promotion of
Environmental Education
and Awareness

Penyertaan Awam
dalam Pengurusan
Alam Sekitar /
Public Participant
in Environmental
Management

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



LIST OF REGULATIONS, ORDERS & RULES UNDER
THE ENVIRONMENT QUALITY ACT 1974

KAWALAN PENCEMARAN UDARA
AIR POLLUTION CONTROL

- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Kepekatan Plumbum Dalam Gasolin Motor) 1985
[Environmental Quality \(Control of Lead Concentration in Motor Gasoline\) Regulations 1985](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Bunyi Bising Kenderaan Motor) 1987
[Environmental Quality \(Motor Vehicle Noise\) Regulations 1987](#)
- Perintah Kualiti Alam Sekeliling (Larangan ke Atas Penggunaan Klorofluorokarbon dan lain-Lain Gas Sebagai Propelan dan Agen Pengembang) 1993
[Environmental Quality \(Prohibition on The Use of Chlorofluorocarbons and Other Gases as Propellants and Blowing Agents\) Order 1993](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pelepasan Daripada Enjin Diesel) 1996
[Environmental Quality \(Control of Emission from Diesel Engines\) Regulations 1996](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pelepasan Daripada Enjin Petrol) 1996
[Environmental Quality \(Control of Emission from Petrol Engines\) Regulations 1996](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Pengurusan Refrigeran) 1999
[Environmental Quality \(Refrigerant Management\) Regulations 1999](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Pengurusan Halon) 1999
[Environmental Quality \(Halon Management\) Regulations 1999](#)
- Kaedah-Kaedah Kualiti Alam Sekeliling (Mengkompaun Kesalahan) (Pembakaran Terbuka) 2000
[Environmental Quality \(Compounding of Offences\) \(Open Burning\) Rules 2000](#)
- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa) (Penyiasatan Pembakaran Terbuka) 2000
[Environmental Quality \(Delegation of Powers\) \(Investigation of Open Burning\) Order 2000](#)



SENARAI PERATURAN-PERATURAN, PERINTAH & KAEDAH DI BAWAH AKTA KUALITI ALAM SEKELILING 1974

LIST OF REGULATIONS, ORDERS & RULES UNDER THE ENVIRONMENT QUALITY ACT 1974

- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa) (Pengurusan Halon) 2000
[Environmental Quality \(Delegation of Powers\) \(Halon Management\) Order 2000](#)
- Perintah Kualiti Alam Sekeliling (Aktiviti Yang Diisytiharkan) (Pembakaran Terbuka) 2003
[Environmental Quality \(Declared Activities\) \(Open Burning\) Order 2003](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pelepasan Daripada Motorsikal) 2003
[Environmental Quality \(Control of Emission from Motorcycles\) Regulations 2003](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Kandungan Petrol dan Diesel) 2007
[Environmental Quality \(Control of Petrol and Diesel Properties\) Regulations 2007](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Udara Bersih) 2014
[Environmental Quality \(Clean Air\) Regulations 2014](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Pengurusan Refrigeran) 2020
[Environmental Quality \(Refrigerant Management\) Regulations 2020](#)

KAWALAN PENCEMARAN AIR WATER POLLUTION CONTROL

- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa Kawalan Pencemaran Marin) 1993
[Environmental Quality \(Delegation of Powers on Marine Pollution Control\) Order 1993](#)
- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa Kawalan Pencemaran Marin) 1994
[Environmental Quality \(Delegation of Powers on Marine Pollution Control\) Order 1994](#)
- Perintah Kualiti Alam Sekeliling (Larangan Terhadap Penggunaan Bahan Terkawal di dalam Sabun, Bahan Cuci Sintetik dan Agen Pencuci Lain) 1995
[Environmental Quality \(Prohibition on The Use of Controlled Substance in Soap, Synthetic Detergent and Other Cleaning Agents\) Order 1995](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009
[Environmental Quality \(Sewage\) Regulations 2009](#)



LIST OF REGULATIONS, ORDERS & RULES UNDER
THE ENVIRONMENT QUALITY ACT 1974

- Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pencemaran daripada Stesen Pemindahan Sisa Pepejal dan Kambus Tanah) 2009
[Environmental Quality \(Control of Pollution from Solid Waste Transfer Station and Landfill\) Regulations 2009](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Efluen Perindustrian) 2009
[Environmental Quality \(Industrial Effluent\) Regulations 2009](#)
- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa) (Penyiasatan ke atas Kawalan Hakisan dan Kelodakan) 2012
[Environmental Quality \(Delegation of Powers\) \(Investigation on Erosion and Sediment Control\) Order 2012](#)

PENGURUSAN BUANGAN TERJADUAL
SCHEDULED WASTE MANAGEMENT

- Peraturan-Peraturan Kualiti Alam Sekeliling (Pelesenan) 1977
[Environmental Quality \(Licensing\) Regulations 1977](#)
- Perintah Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Kemudahan Pengolahan dan Pelupusan Buangan Terjadual) 1989
[Environmental Quality \(Prescribed Premises\) \(Scheduled Wastes Treatment and Disposal Facilities\) Order 1989](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Kemudahan Pengolahan dan Pelupusan Buangan Terjadual) 1989
[Environmental Quality \(Prescribed Premises\) \(Scheduled Wastes Treatment and Disposal Facilities\) Regulations 1989](#)
- Perintah Kualiti Alam Sekeliling (Pembawa yang Ditetapkan) (Buangan Terjadual) 2005
[Environmental Quality \(Prescribed Conveyance\) \(Scheduled Wastes\) Order 2005](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005
[Environmental Quality \(Scheduled Wastes\) Regulations 2005](#)



LIST OF REGULATIONS, ORDERS & RULES UNDER
THE ENVIRONMENT QUALITY ACT 1974

LAIN-LAIN
OTHERS

- Perintah Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Minyak Kelapa Sawit Mentah) 1977
[Environmental Quality \(Prescribed Premises\) \(Crude Palm Oil\) Order 1977](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Minyak Kelapa Sawit Mentah) 1977
[Environmental Quality \(Prescribed Premises\) \(Crude Palm Oil\) Regulations 1977](#)
- Perintah Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Getah Asli Mentah) 1978
[Environmental Quality \(Prescribed Premises\) \(Raw Natural Rubber\) Order 1978](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Premis yang Ditetapkan) (Getah Asli Mentah) 1978
[Environmental Quality \(Prescribed Premises\) \(Raw Natural Rubber\) Regulations 1978](#)
- Kaedah-Kaedah Kualiti Alam Sekeliling (Mengkompaun Kesalahan-Kesalahan) 1978
[Environmental Quality \(Compounding of Offences\) Rules 1978](#)
- Peraturan-Peraturan Kualiti Alam Sekeliling (Lembaga Rayuan) 2003
[Environmental Quality \(Appeal Board\) Regulations 2003](#)
- Perintah Kualiti Alam Sekeliling (Perwakilan Kuasa) 2005
[Environmental Quality \(Delegation of Powers\) Order 2005](#)
- Perintah Kualiti Alam Sekeliling (Aktiviti yang Ditetapkan) (Penilaian Kesan kepada Alam Sekeliling) 2015
[Environmental Quality \(Prescribed Activities\) \(Environmental Impact Assessment\) Order 2015](#)



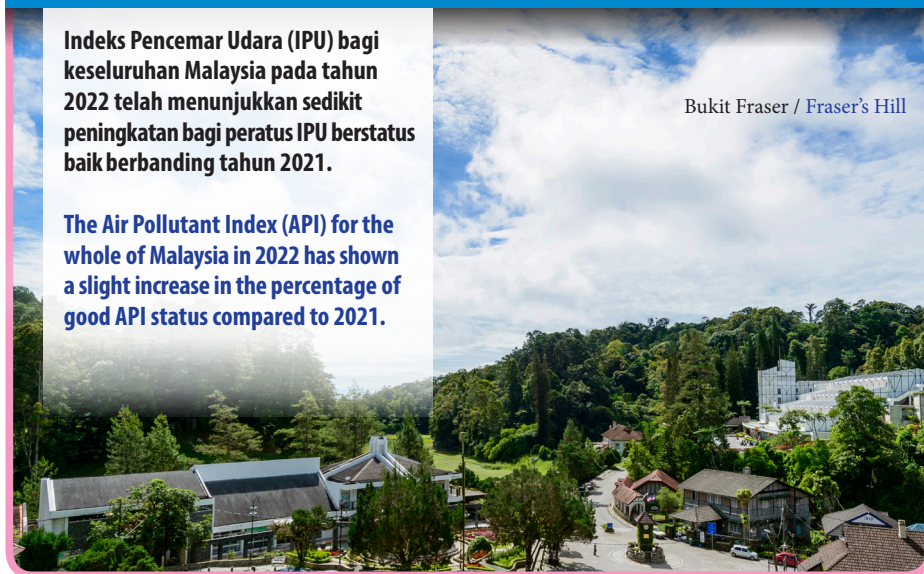
PENGAWASAN KUALITI UDARA

AIR QUALITY MONITORING

Indeks Pencemar Udara (IPU) bagi keseluruhan Malaysia pada tahun 2022 telah menunjukkan sedikit peningkatan bagi peratus IPU berstatus baik berbanding tahun 2021.

The Air Pollutant Index (API) for the whole of Malaysia in 2022 has shown a slight increase in the percentage of good API status compared to 2021.

Bukit Fraser / Fraser's Hill



IPU adalah dikira berdasarkan kepekatan enam **(6)** bahan pencemar utama /
The API is calculated based on concentration of six (6) major pollutants:

- Ozon di Permukaan Bumi (O_3)
Ground Level Ozone (O_3)
- Karbon Monoksida (CO)
Carbon Monoxide (CO)
- Nitrogen Dioksida (NO_2)
Nitrogen Dioxide (NO_2)
- Sulfur Dioksida (SO_2)
Sulphur Dioxide (SO_2)
- Habuk Halus Bersaiz Kurang dari 10 Mikron (PM_{10})
Particulate Matter of Less than 10 Microns in Size (PM_{10})
- Habuk Halus Bersaiz Kurang dari 2.5 Mikron ($PM_{2.5}$)
Particulate Matter of Less than 2.5 Microns in Size ($PM_{2.5}$)



68

Stesen pemantauan
kualiti udara automatik
di seluruh negara /
Fully automatic air quality
monitoring stations in
the country

→ 65

Stesen pemantauan
tetap / Permanent
monitoring stations

→ 3

Stesen pemantauan
mobil / Mobile
monitoring stations

4

Parameter menunjukkan
penurunan kepekatan di
udara iaitu PM_{10} , $PM_{2.5}$,
 O_3 dan CO bagi tahun 2022
berbanding tahun 2021
di antara 1% - 8% /
Parameters show a decrease
in the level of PM_{10} , $PM_{2.5}$,
 O_3 and CO for the year 2022
compared to the year 2021
between 1% - 8%

2

Parameter menunjukkan
peningkatan kepekatan
di udara iaitu SO_2 dan
 NO_2 bagi tahun 2022
berbanding tahun 2021
di antara 8% - 10% /
Parameters show
an increase in the
concentration of SO_2 and
 NO_2 for the year 2022
compared to the year 2021
between 8% - 10%

4

Jenis pengkelasan stesen
kualiti udara mengikut
guna tanah /
Types of classification of
air quality stations
according to land use:

- Industri / Industrial
- Bandar / Urban
- Pinggir Bandar / Suburban
- Luar Bandar / Rural

46.1%

Stesen menunjukkan
IPU baik pada tahun
2022 untuk seluruh
Malaysia /

Stations show a good API
in 2022 throughout
of Malaysia

53.7%

Stesen menunjukkan
IPU sederhana pada
tahun 2022 untuk
seluruh Malaysia /

Stations show a moderate
API in 2022 throughout
of Malaysia

0.2%

Stesen menunjukkan
IPU tidak sihat pada
tahun 2022 untuk
seluruh Malaysia /

Stations indicate
unhealthy API in 2022
throughout of Malaysia



1 (a) : Indeks Pencemar Udara (IPU)

1 (a) : Air Pollutant Index (API)

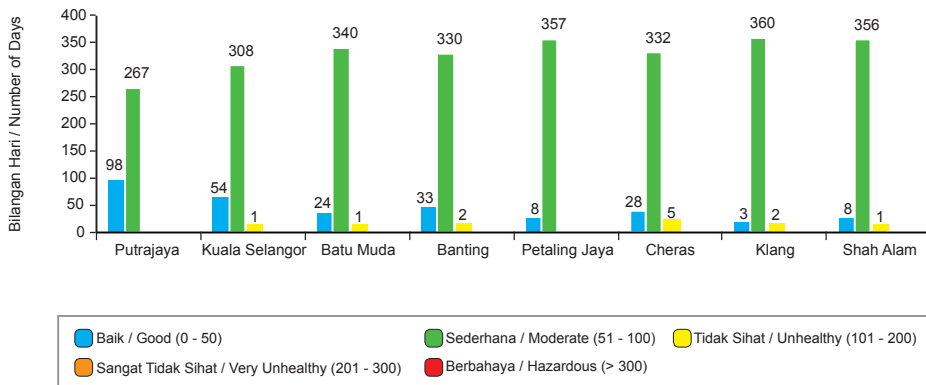
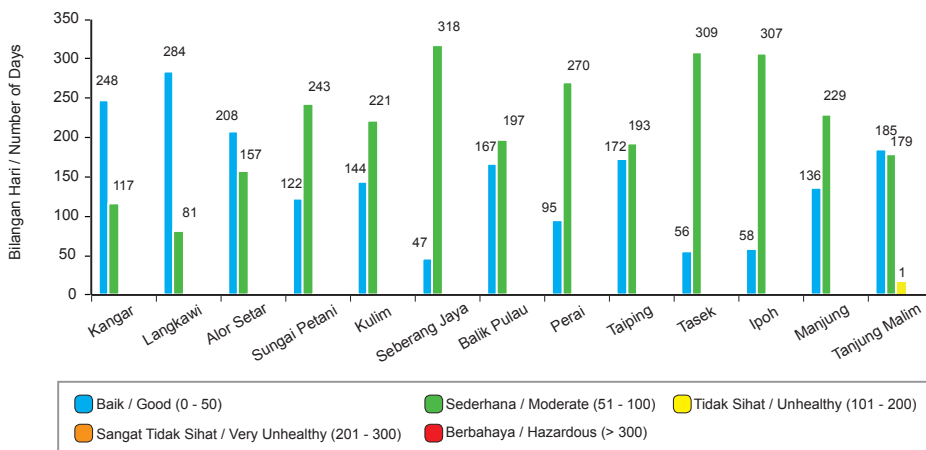
IPU / API	STATUS KUALITI UDARA / AIR QUALITY STATUS
0 – 50	Baik / Good
51 – 100	Sederhana / Moderate
101 – 200	Tidak Sihat / Unhealthy
201 – 300	Sangat Tidak Sihat / Very Unhealthy
> 300	Berbahaya / Hazardous

1 (b) : Standard Kualiti Udara Ambien Malaysia

1 (b) : Malaysian Ambient Air Quality Standard

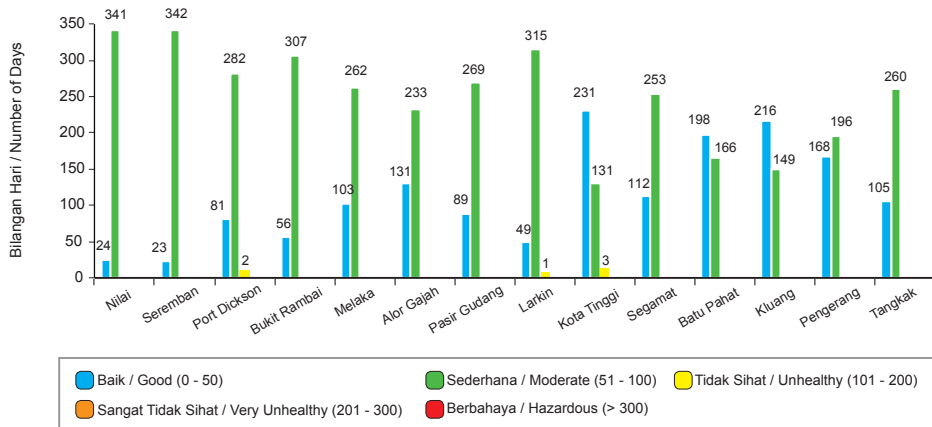
PARAMETER	MASA PURATA / TIME AVERAGING	UNIT	GARIS PANDUAN SEDIA ADA / EXISTING GUIDELINES	STANDARD KUALITI UDARA AMBIEN MALAYSIA / MALAYSIAN AMBIENT AIR QUALITY		
				IT-1 (2015)	IT-2 (2018)	IT-3 (2020)
PM ₁₀	1 Tahun	µg/m ³	50	50	45	40
	24 Jam	µg/m ³	150	150	120	100
PM _{2.5}	1 Tahun	µg/m ³	-	35	25	15
	24 Jam	µg/m ³	-	75	50	35
SO ₂	1 Jam	µg/m ³	350	350	300	250
		ppm	0.135	0.135	0.115	0.095
	24 Jam	µg/m ³	105	105	90	80
		ppm	0.040	0.040	0.035	0.030
*CO	1 Jam	mg/m ³	35	35	35	30
		ppm	30.6	30.6	30.6	26.2
	8 Jam	mg/m ³	10	10	10	10
		ppm	8.75	8.75	8.75	8.75
NO ₂	1 Jam	µg/m ³	320	320	300	280
		ppm	0.170	0.170	0.160	0.150
	24 Jam	µg/m ³	75	75	75	70
		ppm	0.040	0.040	0.040	0.037
O ₃	1 Jam	µg/m ³	200	200	200	180
		ppm	0.100	0.100	0.100	0.090
	8 Jam	µg/m ³	120	120	120	100
		ppm	0.060	0.060	0.060	0.050

Nota: *mg/m³ IT-Interim Tier (tahun)

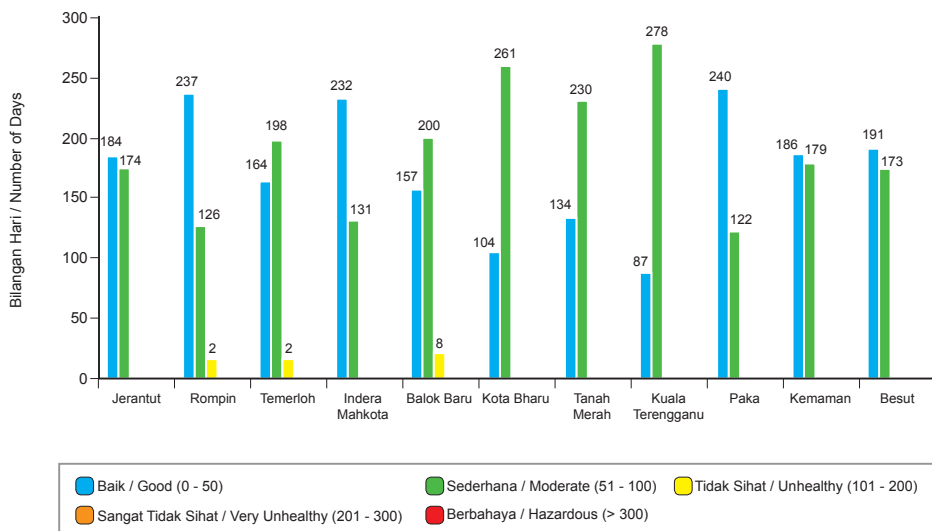
**1 (c) : Status Kualiti Udara Lembah Klang, 2022****1 (c) : Air Quality Status, Klang Valley, 2022****1 (d) : Status Kualiti Udara,****Wilayah Utara Pantai Barat Semenanjung Malaysia, 2022****1 (d) : Air Quality Status, Northern Region of The West Coast
Peninsular Malaysia, 2022**



**1 (e) : Status Kualiti Udara,
Wilayah Selatan Pantai Barat Semenanjung Malaysia, 2022**
**1 (e) : Air Quality Status, Southern Region of The West Coast
Peninsular Malaysia, 2022**



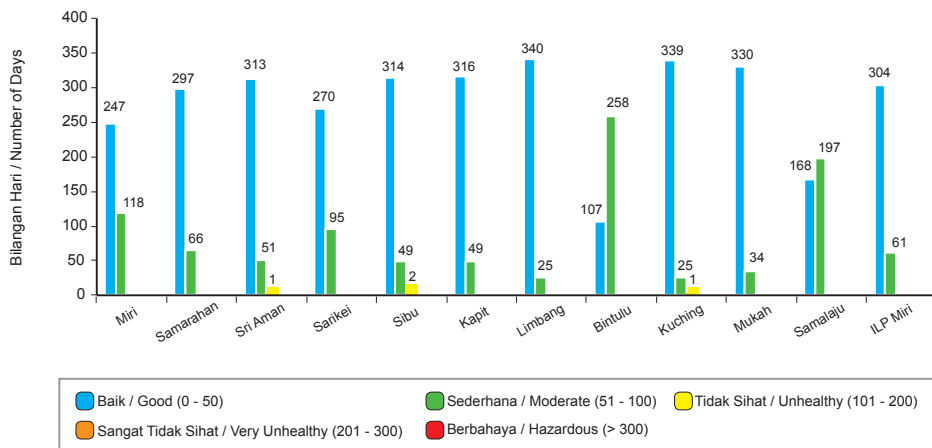
1 (f) : Status Kualiti Udara, Pantai Timur Semenanjung Malaysia, 2022
1 (f) : Air Quality Status, East Coast Peninsular Malaysia, 2022





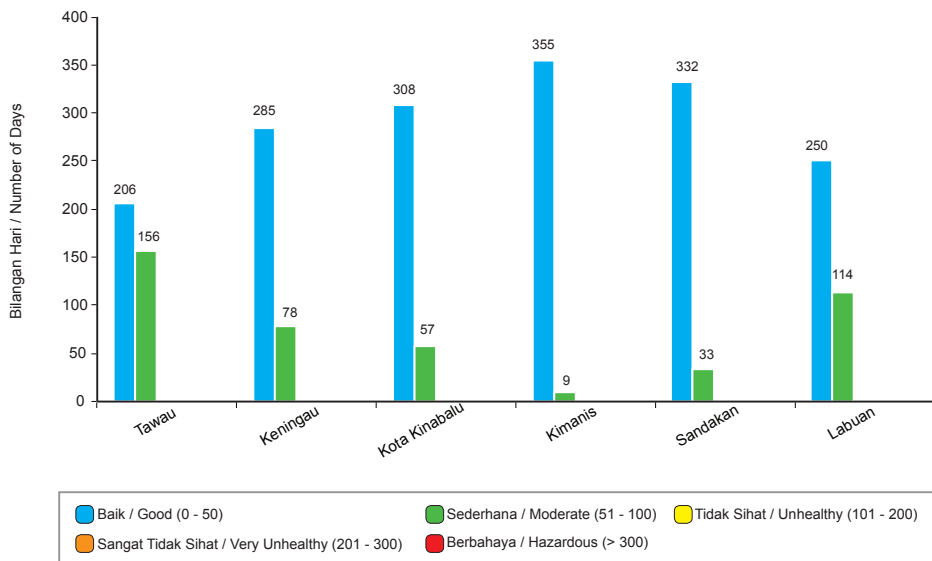
1 (g) : Status Kualiti Udara Sarawak, 2022

1 (g) : Air Quality Status, Sarawak, 2022



1 (h) : Status Kualiti Udara Sabah dan Labuan, 2022

1 (h) : Air Quality Status, Sabah and Labuan, 2022





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SUNGAI / RIVERS

YANG DIPANTAU OLEH
JABATAN ALAM SEKITAR

MONITORED BY THE
DEPARTMENT OF ENVIRONMENT

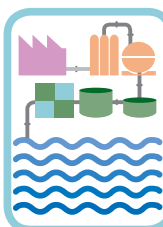


55

STESEN / STATIONS

PEMANTAUAN DI
HULU MUKA SAUK

UPSTREAM WATER
INTAKES MONITORING



1353

STESEN / STATIONS

PENGAWASAN KUALITI
AIR SUNGAI MANUAL

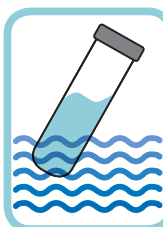
MANUAL RIVER WATER
QUALITY MONITORING



8136

**PERSAMPELAN /
SAMPLING**

KUALITI AIR SUNGAI
RIVER WATER QUALITY



PENGAWASAN KUALITI AIR SUNGAI MANUAL

MANUAL RIVER WATER
QUALITY MONITORING





PENGAWASAN KUALITI AIR SUNGAI AUTOMATIK

CONTINUOUS RIVER WATER QUALITY MONITORING

26 SUNGAI
RIVERS

YANG DIPANTAU OLEH
JABATAN ALAM SEKITAR

MONITORED BY THE
DEPARTMENT OF ENVIRONMENT

30 STESEN
STATIONS

PENGAWASAN KUALITI
AIR SUNGAI AUTOMATIK

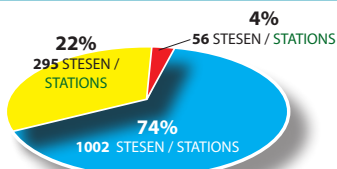
CONTINUOUS RIVER WATER QUALITY
MONITORING

17 PARAMETER
PARAMETERS

YANG DIPANTAU OLEH
JABATAN ALAM SEKITAR

MONITORED BY THE
DEPARTMENT OF ENVIRONMENT

PENGEKELASAN KUALITI AIR SUNGAI MENGIKUT STESEN CLASSIFICATION OF RIVER WATER QUALITY BY STATION



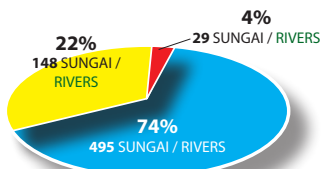
Kategori IKA / WQI Category

B / C	Bersih / Clean
ST / SP	Sederhana Tercemar / Slightly Polluted
T / P	Tercemar / Polluted

INDEKS KUALITI AIR MENGIKUT STESEN
WATER QUALITY INDEX BY STATION

KELAS I CLASS I	292	STESEN STATIONS	(21.6%)
KELAS II CLASS II	792	STESEN STATIONS	(58.5%)
KELAS III CLASS III	253	STESEN STATIONS	(18.7%)
KELAS IV CLASS IV	15	STESEN STATIONS	(1.1%)
KELAS V CLASS V	1	STESEN STATION	(0.1%)

PENGEKELASAN KUALITI AIR SUNGAI MENGIKUT SUNGAI CLASSIFICATION OF RIVER WATER QUALITY BY RIVER



Kategori IKA / WQI Category

B / C	Bersih / Clean
ST / SP	Sederhana Tercemar / Slightly Polluted
T / P	Tercemar / Polluted

INDEKS KUALITI AIR MENGIKUT SUNGAI
WATER QUALITY INDEX BY RIVER

KELAS I CLASS I	132	SUNGAI RIVERS	(19.6%)
KELAS II CLASS II	403	SUNGAI RIVERS	(60.0%)
KELAS III CLASS III	129	SUNGAI RIVERS	(19.2%)
KELAS IV CLASS IV	8	SUNGAI RIVERS	(1.2%)
KELAS V CLASS V	0	SUNGAI RIVER	(0.0%)



2 (a) : Kelas Air dan Penggunaan

2 (a) : Water Classes and Usage

Kelas I Class I

Pemeliharaan untuk persekitaran semulajadi
Bekalan Air I - Secara praktiknya tidak memerlukan rawatan
Perikanan I - Untuk spesis akuatik yang sangat sensitif

Conservation of natural environment
Water Supply I - Practically no treatment necessary
Fishery I - Very sensitive aquatic species

Kelas IIA Class IIA

Bekalan Air II - Memerlukan rawatan konvensional
Perikanan II - Untuk spesis sensitif

Water Supply II - Conventional treatment required
Fishery II - Sensitive aquatic species

Kelas IIB Class IIB

Sesuai untuk aktiviti rekreasi yang melibatkan sentuhan badan

Recreational use with body contact

Kelas III Class III

Bekalan Air III - Memerlukan rawatan yang intensif
Perikanan III - Untuk minuman haiwan ternakan

Water Supply III - Extensive treatment required
Fishery III - Livestock drinking

Kelas IV Class IV

Pengairan

Irrigation

Kelas V Class V

Selain daripada yang di atas

None of the above



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022

2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Perlis	Sg. Perlis	Sg. Arau	1RPLS012	79	80	79	88	85	B/C
		Sg. Arau	1RPLS014	88	87	91	92	93	B/C
		Sg. Empangan Timah Tasoh	1RPLS015	89	87	93	95	96	B/C
		Sg. Jarum	1RPLS006	85	83	88	91	89	B/C
		Sg. Jernih	1RPLS004	88	86	92	92	95	B/C
		Sg. Jernih	1RPLS005	89	86	90	95	94	B/C
		Sg. Kok Mak	1RPLS007	84	86	88	87	88	B/C
		Sg. Korok	1RPLS013	70	71	75	76	74	ST/SP
		Sg. Ngulang	1RPLS002	85	82	90	92	93	B/C
		Sg. Pelarit	1RPLS008	92	91	94	96	96	B/C
		Sg. Perlis	1RPLS001	72	72	76	77	78	ST/SP
		Sg. Serai	1RPLS003	82	76	82	86	90	B/C
		Sg. Terusan Mada	1RPLS010	84	84	88	91	92	B/C
		Sg. Terusan Mada	1RPLS011	87	87	89	92	89	B/C
Kedah	Sg. Kedah	Sg. Wang Kelian	1RPLS009	93	94	95	97	97	B/C
		Sg. Ahning	1KKDH011	88	88	92	96	95	B/C
		Sg. Changlun	1KKDH016	79	77	87	88	87	B/C
		Sg. Janing	1KKDH007	90	91	93	97	97	B/C
		Sg. Kedah	1KKDH001	65	64	70	77	76	ST/SP
		Sg. Napoh	1KKDH017	76	80	82	89	90	B/C
		Sg. Padang Terap	1KKDH002	86	87	87	91	89	B/C
		Sg. Padang Terap	1KKDH003	86	88	88	91	90	B/C
		Sg. Padang Terap	1KKDH004	86	89	85	96	95	B/C
		Sg. Padang Terap	1KKDH009	74	70	74	81	78	ST/SP
		Sg. Padang Terap	1KKDH012	89	91	92	97	95	B/C
		Sg. Pedu	1KKDH005	87	90	91	95	94	B/C
		Sg. Pendang	1KKDH008	78	77	81	82	85	B/C
		Sg. Sintok	1KKDH018	81	81	92	96	95	B/C
		Sg. Tekai	1KKDH006	82	80	88	94	93	B/C
		Sg. Temin	1KKDH010	78	77	84	89	89	B/C
		Sg. Terusan Lengkuas	1KKDH014	88	89	86	92	92	B/C
		Sg. Terusan Mada Selatan	1KKDH013	86	88	89	92	90	B/C
		Sg. Terusan Tengah	1KKDH015	87	89	88	93	93	B/C
	Sg. Kerian	Sg. Kerian	1KKER001	93	93	94	95	96	B/C
	Sg. Kisap	Sg. Kisap	1KKSP001	91	90	95	97	97	B/C
	Sg. Kuah	Sg. Kuah	1KKUA001	66	74	81	79	81	B/C
	Sg. Merbok	Sg. Bakar Arang	1KMBK008	56	59	56	69	66	ST/SP
		Sg. Batu	1KMBK002	49	66	70	64	59	T/P
		Sg. Bongkok	1KMBK003	73	63	71	75	71	ST/SP
		Sg. Bukit Merah	1KMBK006	81	80	92	92	89	B/C
		Sg. Bukit Nanas	1KMBK011	93	93	95	97	97	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Kedah	Sg. Merbok	Sg. Korok	1KMBK009	69	69	65	71	66	ST/SP
		Sg. Merbok	1KMBK001	74	77	79	81	81	B/C
		Sg. Petani	1KMBK007	57	54	63	68	64	ST/SP
		Sg. Tok Pawang	1KMBK004	82	88	90	95	94	B/C
		Sg. Tok Pawang	1KMBK005	88	88	90	95	96	B/C
		Sg. Tupah	1KMBK010	93	93	94	97	97	B/C
	Sg. Muda	Sg. Chepir	1KMUD012	89	87	89	91	92	B/C
		Sg. Gunung Inas	1KMUD021	91	92	93	93	95	B/C
		Sg. Jerong	1KMUD002	65	61	66	75	73	ST/SP
		Sg. Jerong	1KMUD003	68	69	74	78	70	ST/SP
		Sg. Karangan	1KMUD009	81	81	85	91	83	B/C
		Sg. Ketil	1KMUD007	85	85	87	93	91	B/C
		Sg. Muda	1KMUD001	84	85	86	92	90	B/C
		Sg. Muda	1KMUD004	85	85	85	90	91	B/C
		Sg. Muda	1KMUD005	86	87	88	94	95	B/C
		Sg. Muda	1KMUD013	85	86	86	92	91	B/C
		Sg. Muda	1KMUD014	87	89	90	91	94	B/C
		Sg. Muda	1KMUD015	85	87	88	92	94	B/C
		Sg. Muda	1KMUD016	87	86	85	90	91	B/C
		Sg. Muda	1KMUD018	84	86	86	94	91	B/C
		Sg. Muda	1KMUD019	89	88	90	93	96	B/C
		Sg. Muda	1KMUD023	85	85	87	92	91	B/C
		Sg. Muda	1KMUD024	83	84	85	90	91	B/C
		Sg. Muda	1KMUD025	89	85	89	94	95	B/C
		Sg. Pegang	1KMUD011	92	93	95	97	97	B/C
		Sg. Sedim	1KMUD008	85	88	90	93	91	B/C
		Sg. Sedim	1KMUD017	85	87	89	91	93	B/C
		Sg. Tawar	1KMUD006	89	90	89	91	92	B/C
		Sg. Tawar	1KMUD010	83	88	88	89	94	B/C
		Sg. Tawar	1KMUD020	88	90	88	90	93	B/C
	Sg. Perai	Sg. Jarak	1KPRI018	68	74	74	77	69	ST/SP
		Sg. Jarak	1KPRI019	73	74	74	76	69	ST/SP
		Sg. Jarak	1KPRI024	70	73	72	70	71	ST/SP
		Sg. Keladi	1KPRI015	76	74	78	81	82	B/C
		Sg. Kulim	1KPRI014	77	75	77	82	78	ST/SP
		Sg. Kulim	1KPRI016	88	92	90	91	92	B/C
		Sg. Kulim	1KPRI017	89	92	91	93	94	B/C
		Sg. Kulim	1KPRI023	89	91	90	92	91	B/C
		Sg. Kulim	1KPRI025	89	92	88	94	94	B/C
		Sg. Seluang	1KPRI021	62	64	64	67	65	ST/SP
		Sg. Seluang Bawah	1KPRI020	65	67	67	71	66	ST/SP
	Sg. Ulu Melaka	Sg. Chenang	1KMLK006	53	69	78	84	77	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Kedah	Sg. Ulu Melaka	Sg. Melaka	1KMLK002	79	77	81	90	85	B/C
		Sg. Melaka	1KMLK003	85	81	87	91	91	B/C
		Sg. Melaka	1KMLK007	93	92	96	97	97	B/C
		Sg. Petang	1KMLK001	93	93	96	97	98	B/C
		Sg. Saga	1KMLK004	85	76	81	92	88	B/C
		Sg. Tuba	1KMLK005	90	88	94	96	97	B/C
P. Pinang	Sg. Bayan Lepas	Sg. Bayan Lepas	1PBLS003	70	76	64	74	69	ST/SP
		Sg. Tiram	1PBLS001	77	78	77	76	78	ST/SP
		Sg. Tiram	1PBLS002	71	65	67	67	71	ST/SP
	Sg. Jawi	Sg. Chempedak	1PJWI003	34	54	47	41	36	T/P
		Sg. Jawi	1PJWI001	47	49	55	52	57	T/P
		Sg. Junjong	1PJWI002	62	62	64	60	57	T/P
		Sg. Junjong	1PJWI004	55	47	57	52	58	T/P
		Sg. Junjong	1PJWI006	92	92	94	95	96	B/C
		Sg. Machang Bubok	1PJWI007	71	70	76	72	68	ST/SP
		Sg. Tengah	1PJWI005	48	61	49	58	47	T/P
	Sg. Juru	Sg. Ara	1PJRU006	70	66	67	77	75	ST/SP
		Sg. Juru	1PJRU001	55	60	68	69	66	ST/SP
		Sg. Juru	1PJRU012	59	53	64	65	70	ST/SP
		Sg. Kilang Ubi	1PJRU002	58	68	70	69	68	ST/SP
		Sg. Kilang Ubi	1PJRU003	66	71	75	70	68	ST/SP
		Sg. Kilang Ubi	1PJRU009	91	92	93	97	96	B/C
		Sg. Kilang Ubi	1PJRU010	55	58	63	60	61	ST/SP
		Sg. Kilang Ubi	1PJRU011	62	56	66	69	68	ST/SP
		Sg. Pasir	1PJRU004	58	61	65	75	66	ST/SP
		Sg. Permatang Rawa	1PJRU008	62	61	53	60	55	T/P
		Sg. Permatang Rawa	1PJRU013	77	69	66	90	87	B/C
		Sg. Rambai	1PJRU005	48	49	57	57	56	T/P
		Sg. Rambai	1PJRU007	60	54	56	62	55	T/P
	Sg. Kerian	Sg. Kechil	1PKER002	86	86	87	90	91	B/C
		Sg. Kechil	1PKER005	80	78	84	87	84	B/C
		Sg. Kerian	1PKER003	84	83	88	89	87	B/C
		Sg. Kerian	1PKER004	83	84	85	89	92	B/C
		Sg. Kerian	1PKER006	76	85	86	89	89	B/C
		Sg. Kerian	1PKER009	76	73	80	84	82	B/C
		Sg. Kerian	1PKER014	81	77	85	86	85	B/C
		Sg. Serdang	1PKER007	76	73	71	80	83	B/C
	Sg. Kluang	Sg. Ara	1PKLU002	93	91	95	97	97	B/C
		Sg. Ara	1PKLU003	74	65	68	69	72	ST/SP
		Sg. Dua Besar	1PKLU005	64	57	64	68	67	ST/SP
		Sg. Kluang	1PKLU001	72	63	65	68	52	T/P
		Sg. Relau	1PKLU004	82	66	66	68	69	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
P. Pinang	Sg. Perai	Sg. Air Melintas	1PPRI007	51	54	58	57	60	ST/SP
		Sg. Jarak	1PPRI009	73	69	74	79	71	ST/SP
		Sg. Jarak	1PPRI011	66	70	72	70	74	ST/SP
		Sg. Jarak	1PPRI012	66	68	71	71	76	ST/SP
		Sg. Kereh	1PPRI006	50	51	47	59	57	T/P
		Sg. Kereh	1PPRI008	55	57	55	60	56	T/P
		Sg. Kereh	1PPRI024	61	65	64	66	64	ST/SP
		Sg. Kubang Semang	1PPRI005	60	64	64	66	68	ST/SP
		Sg. Perai	1PPRI003	56	62	64	74	62	ST/SP
		Sg. Perai	1PPRI004	62	63	67	70	62	ST/SP
		Sg. Pertama	1PPRI022	54	59	65	69	52	T/P
		Sg. Seluang Bawah	1PPRI010	51	62	61	68	67	ST/SP
	Sg. Pinang	Sg. Air Itam	1PPNG006	69	72	70	74	69	ST/SP
		Sg. Air Itam	1PPNG011	70	76	76	76	65	ST/SP
		Sg. Air Itam	1PPNG018	92	94	96	97	96	B/C
		Sg. Air Terjun	1PPNG019	94	93	95	97	97	B/C
		Sg. Batu Feringghi	1PPNG001	80	79	80	82	81	B/C
		Sg. Batu Feringghi	1PPNG002	92	92	95	96	96	B/C
		Sg. Dondang	1PPNG012	83	84	83	86	54	T/P
		Sg. Dondang	1PPNG013	83	84	84	87	58	T/P
		Sg. Dondang	1PPNG014	73	71	71	79	75	ST/SP
		Sg. Dondang	1PPNG015	69	72	73	75	73	ST/SP
		Sg. Dondang	1PPNG016	70	74	71	73	68	ST/SP
		Sg. Dondang	1PPNG017	68	72	67	63	61	ST/SP
		Sg. Jelutong	1PPNG010	69	64	63	65	68	ST/SP
		Sg. Pinang	1PPNG003	87	88	88	94	92	B/C
		Sg. Pinang	1PPNG008	68	62	69	67	61	ST/SP
		Sg. Pinang	1PPNG021	62	66	55	63	56	T/P
		Sg. Satu	1PPNG020	92	93	96	97	97	B/C
		Sg. Titi Kerawang	1PPNG004	65	63	68	75	63	ST/SP
Perak	Sg. Bernam	Sg. Bernam	1ABNM001	69	69	64	73	74	ST/SP
		Sg. Bernam	1ABNM002	64	67	72	66	63	ST/SP
		Sg. Bernam	1ABNM003	76	70	80	81	82	B/C
		Sg. Bernam	1ABNM004	84	86	86	93	93	B/C
		Sg. Bernam	1ABNM005	83	83	86	93	93	B/C
		Sg. Bernam	1ABNM006	87	87	90	97	96	B/C
		Sg. Gelinting	1ABNM015	89	87	92	96	96	B/C
		Sg. Inki	1ABNM012	93	93	94	97	97	B/C
		Sg. Slim	1ABNM007	86	86	87	94	95	B/C
		Sg. Slim	1ABNM008	87	87	88	94	95	B/C
		Sg. Slim	1ABNM011	85	79	89	94	91	B/C
		Sg. Trolak	1ABNM009	88	90	91	96	96	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Perak	Sg. Bernam	Sg. Trolak	1ABNM010	88	91	92	97	95	B/C
		Sg. Trolak	1ABNM014	91	91	93	96	96	B/C
	Sg. Bruas	Sg. Bruas	1ABRU001	74	77	72	75	69	ST/SP
		Sg. Bruas	1ABRU004	90	90	91	94	95	B/C
		Sg. Bruas	1ABRU005	93	94	96	97	97	B/C
		Sg. Dandang	1ABRU006	90	86	91	94	95	B/C
		Sg. Licin	1ABRU007	94	95	96	97	97	B/C
		Sg. Rotan	1ABRU002	91	91	92	96	94	B/C
		Sg. Rotan	1ABRU003	85	86	83	88	83	B/C
	Sg. Kerian	Sg. Selama	1AKER011	83	82	86	88	86	B/C
		Sg. Selama	1AKER012	83	85	87	88	89	B/C
		Sg. Selama	1AKER016	94	93	94	97	97	B/C
		Sg. Semang	1AKER013	83	76	81	80	81	B/C
	Sg. Kurau	Sg. Terusan Bagan Serai	1AKER015	91	91	93	93	93	B/C
		Sg. Air Hitam	1AKRU007	93	92	95	98	97	B/C
		Sg. Ara	1AKRU001	88	92	92	96	94	B/C
		Sg. Ara	1AKRU006	92	93	95	97	97	B/C
		Sg. Kurau	1AKRU002	72	77	77	76	78	ST/SP
		Sg. Kurau	1AKRU003	75	82	77	78	79	ST/SP
		Sg. Kurau	1AKRU004	89	89	91	94	93	B/C
	Sg. Perak	Sg. Kurau	1AKRU005	88	89	91	91	90	B/C
		Sg. Batang Padang	1APRK003	77	76	83	86	87	B/C
		Sg. Batang Padang	1APRK006	90	88	90	95	96	B/C
		Sg. Batang Padang	1APRK009	79	81	87	90	90	B/C
		Sg. Behrang	1APRK077	93	94	97	97	98	B/C
		Sg. Berok	1APRK068	93	92	96	97	97	B/C
		Sg. Bidor	1APRK002	73	76	71	84	87	B/C
		Sg. Bidor	1APRK004	78	81	88	89	91	B/C
		Sg. Bidor	1APRK005	85	86	91	88	87	B/C
		Sg. Chenderiang	1APRK012	91	91	94	95	94	B/C
		Sg. Chenderiang	1APRK013	84	91	92	93	94	B/C
		Sg. Chepor	1APRK056	94	94	96	97	96	B/C
		Sg. Cuar	1APRK046	84	83	87	96	95	B/C
		Sg. Ibol	1APRK066	93	93	94	97	96	B/C
		Sg. Kampar	1APRK031	90	89	93	95	96	B/C
		Sg. Kampar	1APRK032	84	82	90	94	93	B/C
		Sg. Kangsar	1APRK043	84	86	89	93	94	B/C
		Sg. Kangsar	1APRK044	87	85	90	91	93	B/C
		Sg. Kangsar	1APRK079	94	93	96	97	97	B/C
		Sg. Keping	1APRK037	75	71	79	86	78	ST/SP
		Sg. Keping	1APRK038	76	69	78	83	78	ST/SP
		Sg. Kerbau	1APRK064	94	93	94	96	95	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Perak	Sg. Perak	Sg. Kerbau	1APRK078	92	90	93	94	91	B/C
		Sg. Kerdah	1APRK041	69	67	74	73	69	ST/SP
		Sg. Kerdah	1APRK053	81	78	86	85	86	B/C
		Sg. Kinjang	1APRK055	93	94	96	97	97	B/C
		Sg. Kinta	1APRK019	75	76	78	86	83	B/C
		Sg. Kinta	1APRK022	91	90	90	95	96	B/C
		Sg. Kinta	1APRK024	74	75	86	85	67	ST/SP
		Sg. Kinta	1APRK025	68	66	75	79	78	ST/SP
		Sg. Kinta	1APRK033	76	70	78	84	84	B/C
		Sg. Kinta	1APRK034	75	78	81	85	83	B/C
		Sg. Kinta	1APRK057	67	70	80	83	80	ST/SP
		Sg. Kinta	1APRK058	75	76	82	83	85	B/C
		Sg. Kinta	1APRK063	92	91	92	95	96	B/C
		Sg. Klah	1APRK014	88	88	91	95	90	B/C
		Sg. Klah	1APRK015	89	90	91	95	91	B/C
		Sg. Klian Baru	1APRK016	75	75	82	84	80	ST/SP
		Sg. Klian Baru	1APRK017	70	76	78	84	77	ST/SP
		Sg. Klian Gunong	1APRK081	94	93	96	97	96	B/C
		Sg. Kuang	1APRK042	84	80	81	88	85	B/C
		Sg. Manong	1APRK060	92	95	95	97	97	B/C
		Sg. Nyamok	1APRK052	73	68	76	77	74	ST/SP
		Sg. Pari	1APRK023	76	76	79	83	87	B/C
		Sg. Pari	1APRK028	67	68	80	79	83	B/C
		Sg. Pelus	1APRK039	87	85	82	86	89	B/C
		Sg. Pelus	1APRK040	86	86	89	91	87	B/C
		Sg. Perak	1APRK001	82	82	84	86	88	B/C
		Sg. Perak	1APRK018	86	85	87	90	92	B/C
		Sg. Perak	1APRK020	85	88	90	92	94	B/C
		Sg. Perak	1APRK045	90	88	88	94	95	B/C
		Sg. Perak	1APRK047	82	82	86	88	86	B/C
		Sg. Perak	1APRK048	89	91	90	94	94	B/C
		Sg. Perak	1APRK049	89	89	86	92	92	B/C
		Sg. Perak	1APRK051	88	89	87	94	94	B/C
		Sg. Perak	1APRK059	91	92	95	97	97	B/C
		Sg. Perak	1APRK065	87	87	88	95	95	B/C
		Sg. Perak	1APRK069	85	85	88	91	86	B/C
		Sg. Perak	1APRK070	85	87	89	92	93	B/C
		Sg. Perak	1APRK071	87	87	88	92	92	B/C
		Sg. Perak	1APRK072	86	88	86	93	94	B/C
		Sg. Perak	1APRK074	87	88	87	92	92	B/C
		Sg. Perak	1APRK080	92	93	95	97	97	B/C
		Sg. Perak	1APRK082	92	94	95	96	96	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Perak	Sg. Perak	Sg. Perak	1APRK086	91	93	96	94	96	B/C
		Sg. Pinji	1APRK021	67	69	75	75	77	ST/SP
		Sg. Pinji	1APRK036	67	64	72	78	79	ST/SP
		Sg. Pulau	1APRK067	92	94	95	97	97	B/C
		Sg. Raia	1APRK030	85	82	89	90	93	B/C
		Sg. Raia	1APRK035	85	83	86	89	89	B/C
		Sg. Rui	1APRK084	92	93	95	96	93	B/C
		Sg. Rui	1APRK085	84	84	86	91	88	B/C
		Sg. Seluang	1APRK050	66	58	72	62	62	ST/SP
		Sg. Serokai	1APRK026	60	65	71	71	77	ST/SP
		Sg. Serokai	1APRK027	77	74	77	86	87	B/C
		Sg. Sintang	1APRK054	66	65	72	72	67	ST/SP
		Sg. Sungkai	1APRK007	90	92	95	95	94	B/C
		Sg. Sungkai	1APRK008	78	84	90	91	91	B/C
		Sg. Sungkai	1APRK073	85	85	92	93	92	B/C
		Sg. Sungkai	1APRK075	86	90	91	93	93	B/C
		Sg. Sungkai Mati	1APRK010	73	71	57	65	67	ST/SP
		Sg. Sungkai Mati	1APRK011	85	82	92	87	89	B/C
		Sg. Tapah	1APRK076	95	95	96	97	96	B/C
		Sg. Teja	1APRK083	76	78	82	88	85	B/C
		Sg. Tesong	1APRK062	94	94	96	97	97	B/C
		Sg. Tumboh	1APRK029	69	71	73	73	76	ST/SP
		Sg. Woh	1APRK061	92	94	96	97	98	B/C
	Sg. Raja Hitam	Sg. Derhaka	1ARHT004	76	67	79	78	74	ST/SP
		Sg. Derhaka	1ARHT006	77	69	76	79	75	ST/SP
		Sg. Manjong	1ARHT001	83	85	85	88	87	B/C
		Sg. Manjong	1ARHT002	80	82	86	86	85	B/C
		Sg. Nyior	1ARHT007	93	95	96	97	97	B/C
		Sg. Raja Hitam	1ARHT003	71	73	76	81	78	ST/SP
		Sg. Raja Hitam	1ARHT005	66	68	72	84	78	ST/SP
		Sg. Raja Hitam	1ARHT008	30	20	52	39	30	T/P
	Sg. Sepetang	Sg. Batu Tegoh	1ASPT006	73	69	85	87	84	B/C
		Sg. Batu Tegoh	1ASPT007	83	79	87	92	91	B/C
		Sg. Batu Tegoh	1ASPT009	82	76	87	90	89	B/C
		Sg. Batu Tegoh	1ASPT012	93	94	96	97	97	B/C
		Sg. Batu Tegoh	1ASPT016	94	95	95	97	97	B/C
		Sg. Jana	1ASPT004	73	76	72	68	72	ST/SP
		Sg. Jana	1ASPT013	94	95	95	97	97	B/C
		Sg. Lidin	1ASPT008	78	75	84	86	84	B/C
		Sg. Limau	1ASPT014	89	90	91	96	96	B/C
		Sg. Malai	1ASPT002	70	76	77	82	77	ST/SP
		Sg. Malai	1ASPT019	70	73	73	77	73	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Perak	Sg. Sepetang	Sg. Nyior	1ASPT018	92	95	97	97	98	B/C
		Sg. Nyior	1ASPT020	86	87	88	94	92	B/C
		Sg. Sepetang	1ASPT001	71	72	76	75	72	ST/SP
		Sg. Sepetang	1ASPT003	82	81	83	84	83	B/C
		Sg. Temerloh	1ASPT010	88	89	90	96	95	B/C
		Sg. Temerloh	1ASPT011	77	83	86	92	92	B/C
		Sg. Trong	1ASPT015	90	90	92	96	94	B/C
	Sg. Wangi	Sg. Trong	1ASPT017	93	95	96	97	97	B/C
		Sg. Deralik	1AWGIO01	71	73	71	70	77	ST/SP
		Sg. Deralik	1AWGIO02	65	73	76	79	74	ST/SP
Sg. Wangi		1AWGIO03	74	70	82	82	75	ST/SP	
Selangor	Sg. Bernam	Sg. Wangi	1AWGIO04	79	80	79	68	65	ST/SP
		Sg. Bernam	2BBNM013	83	83	84	92	91	B/C
		Sg. Bernam	2BBNM016	84	83	84	91	90	B/C
	Sg. Buloh	Sg. Dusun	2BBNM017	86	85	91	95	95	B/C
		Sg. Buloh	2BBLH001	58	59	58	67	55	T/P
		Sg. Buloh	2BBLH002	56	49	54	61	51	T/P
		Sg. Buloh	2BBLH003	48	51	57	47	46	T/P
		Sg. Buloh	2BBLH004	45	52	59	43	45	T/P
		Sg. Buloh	2BBLH005	74	72	79	82	84	B/C
		Sg. Buloh	2BBLH006	47	47	57	55	50	T/P
	Sg. Klang	Sg. Ampang	2BKLG032	54	59	63	64	64	ST/SP
		Sg. Ampang	2BKLG042	63	67	70	76	81	B/C
		Sg. Anak Air Batu	2BKLG047	73	72	81	89	80	ST/SP
		Sg. Batu	2BKLG007	91	93	93	97	97	B/C
		Sg. Batu	2BKLG036	91	92	92	96	97	B/C
		Sg. Damansara	2BKLG008	57	60	62	71	68	ST/SP
		Sg. Damansara	2BKLG009	57	60	66	71	66	ST/SP
		Sg. Damansara	2BKLG017	52	54	64	64	65	ST/SP
		Sg. Damansara	2BKLG055	62	64	66	71	70	ST/SP
		Sg. Damansara	2BKLG067	90	89	92	95	95	B/C
		Sg. Gombak	2BKLG020	92	90	93	97	97	B/C
		Sg. Gombak	2BKLG027	89	89	93	97	95	B/C
		Sg. Jinjang	2BKLG044	77	77	81	84	86	B/C
		Sg. Kerayong	2BKLG013	43	44	51	55	50	T/P
		Sg. Kerayong	2BKLG051	63	56	66	65	63	ST/SP
		Sg. Keroh	2BKLG030	91	90	95	97	97	B/C
		Sg. Klang	2BKLG005	88	88	93	97	96	B/C
		Sg. Klang	2BKLG006	75	75	84	84	91	B/C
		Sg. Klang	2BKLG016	64	57	58	64	77	ST/SP
		Sg. Klang	2BKLG022	55	52	58	60	61	ST/SP
Sg. Klang	2BKLG023	56	50	56	61	63	ST/SP		



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Selangor	Sg. Klang	Sg. Klang	2BKL024	56	57	55	60	66	ST/SP
		Sg. Klang	2BKL034	56	55	61	67	64	ST/SP
		Sg. Klang	2BKL050	52	49	52	56	60	ST/SP
		Sg. Kuyoh	2BKL011	51	51	59	69	72	ST/SP
		Sg. Penchala	2BKL019	42	56	53	72	60	ST/SP
		Sg. Penchala	2BKL054	61	63	57	73	75	ST/SP
		Sg. Pusu	2BKL021	71	67	71	80	78	ST/SP
		Sg. Rasau	2BKL003	76	74	83	87	93	B/C
		Sg. Rumpit	2BKL033	91	91	92	97	95	B/C
		Sg. Semelah	2BKL025	83	80	83	87	90	B/C
	Sg. Langat	Sg. Anak Chuau	2BCHU004	74	83	89	94	94	B/C
		Sg. Balak	2BLGT025	61	56	71	70	71	ST/SP
		Sg. Batang Labu	2BLGT028	74	72	79	75	83	B/C
		Sg. Batang Labu	2BLGT030	69	65	74	80	81	B/C
		Sg. Batang Labu	2BLGT031	62	61	69	71	78	ST/SP
		Sg. Batang Labu	2BLGT032	65	60	66	65	79	ST/SP
		Sg. Batang Labu	2BLGT033	79	76	86	91	88	B/C
		Sg. Batang Labu	2BLGT035	85	82	91	94	91	B/C
		Sg. Chuau	2BCHU001	87	89	91	94	94	B/C
		Sg. Chuau	2BCHU002	83	85	91	93	94	B/C
		Sg. Langat	2BLGT002	74	73	77	82	85	B/C
		Sg. Langat	2BLGT003	70	74	77	82	80	ST/SP
		Sg. Langat	2BLGT004	62	58	70	72	76	ST/SP
		Sg. Langat	2BLGT005	64	60	68	71	79	ST/SP
		Sg. Langat	2BLGT006	90	90	93	96	97	B/C
		Sg. Langat	2BLGT007	75	72	83	84	84	B/C
		Sg. Langat	2BLGT008	89	90	95	95	93	B/C
		Sg. Langat	2BLGT026	70	72	73	78	80	ST/SP
		Sg. Langat	2BLGT027	61	60	72	72	74	ST/SP
		Sg. Limau Manis	2BCHU003	78	74	71	75	82	B/C
		Sg. Rinching	2BLGT014	75	76	81	84	80	ST/SP
		Sg. Rinching	2BLGT015	91	92	94	97	94	B/C
		Sg. Semenyih	2BLGT010	77	77	83	88	85	B/C
		Sg. Semenyih	2BLGT011	81	74	82	86	84	B/C
		Sg. Semenyih	2BLGT012	83	79	84	86	89	B/C
		Sg. Sering	2BLGT034	64	60	69	72	80	ST/SP
	Sg. Selangor	Sg. Air Hitam	2BSEL002	78	78	74	80	74	ST/SP
		Sg. Air Hitam	2BSEL024	78	82	76	80	79	ST/SP
		Sg. Batang Kali	2BSEL003	87	87	90	96	93	B/C
		Sg. Guntong	2BSEL021	77	73	80	81	83	B/C
		Sg. Kanching	2BSEL007	84	84	90	96	93	B/C
		Sg. Kerling	2BSEL006	91	93	94	97	96	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Selangor	Sg. Selangor	Sg. Kundang	2BSEL012	68	66	70	71	77	ST/SP
		Sg. Rangkap	2BSEL016	91	92	95	96	97	B/C
		Sg. Rawang	2BSEL013	73	70	77	81	81	B/C
		Sg. Selangor	2BSEL001	77	75	77	81	80	ST/SP
		Sg. Selangor	2BSEL004	89	90	92	96	96	B/C
		Sg. Selangor	2BSEL005	89	91	95	97	96	B/C
		Sg. Selangor	2BSEL010	77	78	79	83	86	B/C
		Sg. Selangor	2BSEL011	81	80	82	91	91	B/C
		Sg. Selangor	2BSEL014	78	81	80	84	85	B/C
		Sg. Selangor	2BSEL015	90	91	93	97	96	B/C
		Sg. Selangor	2BSEL017	89	89	92	95	94	B/C
		Sg. Selangor	2BSEL018	82	79	86	88	88	B/C
		Sg. Selangor	2BSEL023	77	77	80	83	85	B/C
		Sg. Sembah	2BSEL009	72	69	74	80	80	ST/SP
		Sg. Sembah	2BSEL019	77	77	76	83	84	B/C
		Sg. Serendah	2BSEL008	86	87	90	96	95	B/C
	Sg. Sepang	Sg. Sepang	2BSPG001	84	78	85	83	88	B/C
		Sg. Sepang	2BSPG002	77	77	73	78	81	B/C
		Sg. Sepang	2BSPG003	76	68	76	80	83	B/C
	Sg. Tenggi	Sg. Tenggi	2BTGI001	75	74	76	80	72	ST/SP
		Sg. Tenggi	2BTGI002	92	91	92	96	96	B/C
		Sg. Tenggi	2BTGI003	81	81	79	84	82	B/C
		Sg. Tenggi	2BTGI004	88	89	92	94	95	B/C
W.P. Kuala Lumpur	Sg. Klang	Sg. Air Busuk	2WKLG041	58	59	41	40	52	T/P
		Sg. Batu	2WKLG028	63	61	63	58	64	ST/SP
		Sg. Batu	2WKLG056	65	54	59	67	72	ST/SP
		Sg. Batu	2WKLG061	70	68	68	61	78	ST/SP
		Sg. Belongkong	2WKLG040	61	67	69	73	65	ST/SP
		Sg. Bunos	2WKLG006	47	49	71	63	44	T/P
		Sg. Bunos	2WKLG039	64	71	68	75	71	ST/SP
		Sg. Bunos	2WKLG043	74	73	73	85	83	B/C
		Sg. Gombak	2WKLG018	59	59	61	65	67	ST/SP
		Sg. Gombak	2WKLG026	59	60	73	74	80	ST/SP
		Sg. Gombak	2WKLG060	64	59	61	69	70	ST/SP
		Sg. Jinjang	2WKLG014	66	65	61	69	67	ST/SP
		Sg. Jinjang	2WKLG031	63	63	62	70	70	ST/SP
		Sg. Jinjang	2WKLG045	63	63	56	59	63	ST/SP
		Sg. Kerayong	2WKLG046	59	54	58	61	64	ST/SP
		Sg. Kerayong	2WKLG058	52	55	62	64	58	T/P
		Sg. Keroh	2WKLG015	63	56	62	65	61	ST/SP
		Sg. Keroh	2WKLG048	49	54	61	61	65	ST/SP
		Sg. Klang	2WKLG001	59	57	63	67	72	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
W.P. Kuala Lumpur	Sg. Klang	Sg. Klang	2WKLG002	63	62	65	69	70	ST/SP
		Sg. Klang	2WKLG003	57	57	67	68	74	ST/SP
		Sg. Klang	2WKLG004	64	61	67	75	70	ST/SP
		Sg. Klang	2WKLG049	67	63	66	69	72	ST/SP
		Sg. Kuyoh	2WKLG052	52	55	64	70	66	ST/SP
		Sg. Penchala	2WKLG010	85	88	92	92	89	B/C
		Sg. Toba	2WKLG037	62	59	61	69	63	ST/SP
N. Sembilan	Sg. Langat	Sg. Untut	2WKLG038	56	54	64	73	78	ST/SP
		Sg. Batang Benar	3NLGT013	72	67	74	74	76	ST/SP
		Sg. Batang Labu	3NLGT009	71	71	81	87	85	B/C
		Sg. Batang Labu	3NLGT025	88	87	90	94	89	B/C
		Sg. Batang Nilai	3NLGT023	74	77	83	87	83	B/C
		Sg. Batang Nilai	3NLGT024	72	72	76	75	75	ST/SP
		Sg. Beranang	3NLGT019	79	76	82	87	85	B/C
		Sg. Buan	3NLGT022	76	76	80	83	85	B/C
		Sg. Jijan	3NLGT026	82	78	85	82	88	B/C
	Sg. Linggi	Sg. Pajam	3NLGT020	76	75	82	85	86	B/C
		Sg. Pajam	3NLGT021	54	54	60	56	58	T/P
		Sg. Batang Penar	3NLGI009	75	77	81	89	84	B/C
		Sg. Batang Penar	3NLGI010	87	84	92	95	91	B/C
		Sg. Batang Penar	3NLGI020	77	78	84	92	89	B/C
		Sg. Batang Penar	3NLGI021	85	90	95	95	93	B/C
		Sg. Batang Penar	3NLGI027	92	92	94	96	97	B/C
		Sg. Batang Penar	3NLGI034	80	75	80	78	84	B/C
		Sg. Batu Hampar	3NLGI024	86	88	93	91	93	B/C
		Sg. Chembong	3NLGI012	84	83	93	88	89	B/C
		Sg. Empangan Terip	3NLGI022	73	72	80	82	85	B/C
		Sg. Jelai	3NLGI025	81	84	89	86	88	B/C
		Sg. Kayu Ara	3NLGI016	71	62	77	80	84	B/C
		Sg. Kenaboi	3NLGI032	80	80	83	87	85	B/C
		Sg. Kepadayong	3NLGI007	69	73	78	80	79	ST/SP
		Sg. Kepadayong	3NLGI023	91	91	94	97	97	B/C
		Sg. Kundur Besar	3NLGI013	90	86	91	92	92	B/C
		Sg. Linggi	3NLGI001	83	81	83	87	86	B/C
		Sg. Linggi	3NLGI002	77	79	82	86	86	B/C
		Sg. Linggi	3NLGI003	76	78	83	85	87	B/C
		Sg. Linggi	3NLGI004	77	77	77	85	85	B/C
		Sg. Linggi	3NLGI005	73	68	78	82	82	B/C
		Sg. Linggi	3NLGI006	71	74	77	82	83	B/C
		Sg. Muar	3NLGI026	87	90	88	93	91	B/C
		Sg. Ngoi Ngoi	3NLGI040	71	73	76	80	83	B/C
		Sg. Paroi	3NLGI018	75	76	78	80	85	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
N. Sembilan	Sg. Linggi	Sg. Pedas	3NLGI014	84	83	90	94	93	B/C
		Sg. Rembau	3NLGI011	86	82	91	92	91	B/C
		Sg. Senawang	3NLGI017	74	74	73	77	81	B/C
		Sg. Simin	3NLGI015	76	77	82	85	87	B/C
		Sg. Temiang	3NLGI019	73	76	83	85	87	B/C
		Sg. Temiang	3NLGI033	60	60	68	61	70	ST/SP
	Sg. Lukut	Sg. Lukut	3NLKT001	73	69	74	73	80	ST/SP
	Sg. Melaka	Sg. Dusun	3NMLK017	87	86	93	94	94	B/C
		Sg. Kemunting	3NMLK039	86	87	92	92	91	B/C
		Sg. Tampin	3NMLK038	90	92	95	96	95	B/C
		Sg. Tampin	3NMLK041	74	84	81	83	84	B/C
	Sg. Muar	Sg. Gemas	3NMUA041	68	68	70	71	76	ST/SP
		Sg. Gemencheh	3NMUA043	83	86	82	91	88	B/C
		Sg. Gemencheh	3NMUA045	78	80	82	90	85	B/C
		Sg. Jelai	3NMUA054	85	83	88	92	91	B/C
		Sg. Kelamah	3NMUA044	75	79	71	88	79	ST/SP
		Sg. Muar	3NMUA042	88	90	91	95	96	B/C
		Sg. Muar	3NMUA046	81	85	84	90	84	B/C
		Sg. Muar	3NMUA047	80	85	86	90	85	B/C
		Sg. Muar	3NMUA048	83	85	85	86	86	B/C
		Sg. Muar	3NMUA049	82	84	88	89	89	B/C
		Sg. Muar	3NMUA050	77	83	85	88	87	B/C
		Sg. Muar	3NMUA051	85	85	86	90	86	B/C
		Sg. Muar	3NMUA052	82	88	85	91	90	B/C
		Sg. Muar	3NMUA053	81	87	85	90	90	B/C
		Sg. Muar	3NMUA055	84	81	84	91	91	B/C
	Sg. Pahang	Sg. Pertang	3NPHG002	82	87	89	92	91	B/C
		Sg. Serting	3NPHG003	77	71	80	87	82	B/C
		Sg. Serting	3NPHG004	76	71	79	86	81	B/C
		Sg. Serting	3NPHG005	70	66	77	81	77	ST/SP
		Sg. Triang	3NPHG006	84	86	84	93	89	B/C
	Sg. Sepang	Sg. Rambai	2BSPG004	28	21	25	25	60	ST/SP
Melaka	Sg. Baru	Sg. Baru	3MBAR001	71	68	74	70	75	ST/SP
		Sg. Duyong	3MDYG001	64	71	63	69	72	ST/SP
	Sg. Duyong	Sg. Duyong	3MDYG002	59	55	58	65	66	ST/SP
		Sg. Duyong	3MDYG003	77	79	77	84	87	B/C
		Sg. Gapam	3MDYG004	86	87	88	92	93	B/C
		Sg. Punggur	3MPGR001	44	47	52	67	58	T/P
		Sg. Punggur	3MPGR002	48	53	49	58	56	T/P
	Sg. Kesang	Sg. Chin-Chin	3MKSG006	68	59	62	53	66	ST/SP
		Sg. Chin-Chin	3MKSG008	85	80	79	87	84	B/C
		Sg. Chin-Chin	3MKSG009	79	79	78	89	86	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Melaka	Sg. Kesang	Sg. Chohong	3MKSG004	82	80	86	91	93	B/C
		Sg. Chohong	3MKSG005	90	89	90	94	94	B/C
		Sg. Kesang	3MKSG001	66	63	72	82	83	B/C
		Sg. Kesang	3MKSG002	80	76	79	88	84	B/C
		Sg. Kesang	3MKSG003	78	72	77	88	88	B/C
		Sg. Tangkak	3MKSG007	67	64	67	77	74	ST/SP
	Sg. Linggi	Sg. Simpang Ampat	3MLGI029	82	79	83	87	84	B/C
		Sg. Siput	3MLGI030	86	84	87	90	91	B/C
		Sg. Siput	3MLGI031	84	85	86	92	89	B/C
		Sg. Tuang	3MTUG002	71	57	57	62	70	ST/SP
	Sg. Melaka	Sg. Batang Melaka	3MMLK008	78	82	90	91	91	B/C
		Sg. Batang Melaka	3MMLK027	88	80	87	91	91	B/C
		Sg. Batang Melaka	3MMLK028	76	80	86	89	92	B/C
		Sg. Durian Tunggal	3MMLK011	76	73	79	86	88	B/C
		Sg. Malim	3MMLK014	51	55	67	71	70	ST/SP
		Sg. Malim	3MMLK034	61	63	67	68	71	ST/SP
		Sg. Melaka	3MMLK007	64	65	72	71	74	ST/SP
		Sg. Melaka	3MMLK009	89	87	91	93	92	B/C
		Sg. Melaka	3MMLK010	90	93	93	96	96	B/C
		Sg. Melaka	3MMLK012	60	59	70	72	71	ST/SP
		Sg. Melaka	3MMLK013	66	66	63	68	73	ST/SP
		Sg. Melaka	3MMLK015	76	72	81	82	84	B/C
		Sg. Melaka	3MMLK021	75	73	81	85	86	B/C
		Sg. Melaka	3MMLK022	78	79	83	86	87	B/C
		Sg. Melaka	3MMLK023	68	66	72	72	67	ST/SP
		Sg. Melaka	3MMLK024	58	61	59	69	72	ST/SP
		Sg. Melaka	3MMLK025	77	77	79	84	84	B/C
		Sg. Melaka	3MMLK026	75	71	80	81	83	B/C
		Sg. Melaka	3MMLK030	80	73	82	84	85	B/C
		Sg. Melaka	3MMLK032	62	59	70	67	68	ST/SP
		Sg. Putat	3MMLK029	65	62	62	74	68	ST/SP
		Sg. Putat	3MMLK033	58	53	59	63	64	ST/SP
		Sg. Rembia	3MMLK035	68	68	73	82	77	ST/SP
		Sg. Rembia	3MMLK036	72	61	68	54	82	B/C
		Sg. Tampin	3MMLK031	87	85	91	94	90	B/C
	Sg. Merlimau	Sg. Merlimau	3MMLU001	50	47	60	55	57	T/P
		Sg. Merlimau	3MMLU002	52	46	52	56	51	T/P
		Sg. Merlimau	3MMLU003	57	49	40	58	61	ST/SP
		Sg. Merlimau	3MMLU004	52	54	58	58	63	ST/SP
		Sg. Merlimau	3MMLU005	52	49	67	68	66	ST/SP
	Sg. Seri Melaka	Sg. Air Salak	3MSMK001	69	65	62	79	78	ST/SP
		Sg. Seri Melaka	3MSMK002	59	65	65	66	69	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Melaka	Sg. Seri Melaka	Sg. Sg. Undang	3MSUD001	87	81	87	86	91	B/C
	Sg. Tuang	Sg. Tuang	3MTUG001	67	58	59	63	75	ST/SP
Johor	Sg. Air Baloi	Sg. Air Baloi	3JABL001	59	52	60	56	55	T/P
		Sg. Air Baloi	3JABL002	49	48	59	52	56	T/P
	Sg. Air Baloi	Sg. Air Baloi	3JABL003	58	49	60	57	61	ST/SP
	Sg. Batu Pahat	Sg. Amran	3JBPT018	70	74	75	81	80	ST/SP
		Sg. Bantang	3JBPT020	94	91	96	97	97	B/C
		Sg. Batu Pahat	3JBPT001	59	56	66	64	61	ST/SP
		Sg. Bekok	3JBPT005	74	63	79	84	81	B/C
		Sg. Bekok	3JBPT008	62	59	57	67	58	T/P
		Sg. Bekok	3JBPT016	88	82	85	91	85	B/C
		Sg. Bekok	3JBPT017	85	83	87	91	90	B/C
		Sg. Bekok	3JBPT019	89	90	92	94	93	B/C
		Sg. Bekok	3JBPT023	64	58	57	63	60	ST/SP
		Sg. Berlian	3JBPT007	78	79	78	77	79	ST/SP
		Sg. Chaah	3JBPT010	79	83	88	93	90	B/C
		Sg. Kahang	3JBPT022	84	86	90	92	82	B/C
		Sg. Lenik	3JBPT011	81	82	82	91	90	B/C
		Sg. Merek	3JBPT009	83	81	88	89	88	B/C
		Sg. Merpo	3JBPT006	84	81	91	90	91	B/C
		Sg. Panchor	3JBPT025	61	58	59	63	59	T/P
		Sg. Semberong	3JBPT003	66	53	57	64	63	ST/SP
		Sg. Semberong	3JBPT004	69	58	64	77	72	ST/SP
		Sg. Semberong Dam	3JBPT021	89	85	89	91	89	B/C
		Sg. Simpang Kanan	3JBPT002	62	60	58	62	59	T/P
		Sg. Simpang Kanan	3JBPT013	57	54	59	60	59	T/P
		Sg. Simpang Kiri	3JBPT012	69	73	81	82	80	ST/SP
		Sg. Simpang Kiri	3JBPT014	64	60	65	71	76	ST/SP
		Sg. Simpang Kiri	3JBPT015	58	55	60	64	66	ST/SP
		Sg. Temehel	3JBPT024	45	48	57	54	59	T/P
	Sg. Benut	Sg. Benut	3JBNT001	86	82	86	92	92	B/C
		Sg. Benut	3JBNT002	73	72	79	86	86	B/C
		Sg. Benut	3JBNT005	65	60	64	66	68	ST/SP
		Sg. Benut	3JBNT006	59	60	69	62	62	ST/SP
		Sg. Machap Dam	3JBNT008	85	91	92	94	93	B/C
		Sg. Parit Hj. Yassin	3JBNT004	81	77	85	81	81	B/C
		Sg. Pinggan	3JBNT007	59	61	60	59	63	ST/SP
		Sg. Ulu Benut	3JBNT003	77	79	89	90	86	B/C
	Sg. Danga	Sg. Danga	3JDGA001	48	47	58	62	66	ST/SP
		Sg. Danga	3JDGA002	48	45	55	59	62	ST/SP
	Sg. Endau	Sg. Anak Sg. Semberong	3JEND007	76	84	84	85	84	B/C
		Sg. Dengar	3JEND010	82	80	84	91	90	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Johor	Sg. Endau	Sg. Empangan Labong	3JEND027	92	92	89	91	91	B/C
		Sg. Endau	3JEND019	85	88	85	88	89	B/C
		Sg. Endau	3JEND022	86	87	87	90	91	B/C
		Sg. Endau	3JEND023	93	93	93	96	92	B/C
		Sg. Jasir	3JEND024	94	94	94	97	96	B/C
		Sg. Jebong	3JEND005	71	61	74	82	75	ST/SP
		Sg. Kahang	3JEND020	89	89	90	89	89	B/C
		Sg. Kahang	3JEND026	88	86	90	94	92	B/C
		Sg. Kahang	3JEND028	87	83	90	88	88	B/C
		Sg. Lenga	3JEND008	75	60	68	69	74	ST/SP
		Sg. Lenggor	3JEND009	84	87	82	89	89	B/C
		Sg. Lenggor	3JEND029	84	86	81	88	90	B/C
		Sg. Mamai	3JEND015	86	86	87	88	89	B/C
		Sg. Melatai	3JEND017	68	63	70	71	73	ST/SP
		Sg. Mengkibol	3JEND001	85	84	88	89	92	B/C
		Sg. Mengkibol	3JEND002	72	74	77	84	82	B/C
		Sg. Mengkibol	3JEND003	65	65	69	75	77	ST/SP
		Sg. Paloh	3JEND016	76	81	82	85	85	B/C
		Sg. Pamol	3JEND011	68	65	72	76	73	ST/SP
		Sg. Selai	3JEND025	90	92	92	94	94	B/C
		Sg. Semberong	3JEND004	84	86	89	90	87	B/C
		Sg. Semberong	3JEND006	81	83	84	84	80	ST/SP
		Sg. Semberong	3JEND012	68	63	76	80	77	ST/SP
		Sg. Semberong	3JEND018	82	84	85	88	88	B/C
		Sg. Semberong	3JEND021	75	83	84	88	89	B/C
		Sg. Singol	3JEND013	80	55	79	83	87	B/C
		Sg. Tamok	3JEND014	86	91	91	90	91	B/C
	Sg. Jemaluang	Sg. Jemaluang	3JJML001	86	88	81	90	90	B/C
		Sg. Jemaluang	3JJML002	78	78	81	86	80	ST/SP
	Sg. Johor	Sg. Anak Sg. Sayong	3JJHR023	76	79	86	92	92	B/C
		Sg. Anak Sg. Sayong	3JJHR032	67	69	75	84	72	ST/SP
		Sg. Belitong	3JJHR038	85	86	83	89	86	B/C
		Sg. Berangan	3JJHR013	63	67	71	82	81	B/C
		Sg. Bukit Besar	3JJHR007	59	57	61	60	56	T/P
		Sg. Bukit Besar	3JJHR009	83	93	90	95	95	B/C
		Sg. Chemangar	3JJHR019	72	72	70	73	77	ST/SP
		Sg. Johor	3JJHR011	81	83	83	89	91	B/C
		Sg. Johor	3JJHR014	81	82	85	89	91	B/C
		Sg. Johor	3JJHR015	80	84	86	91	92	B/C
		Sg. Johor	3JJHR040	82	78	84	87	88	B/C
		Sg. Johor	3JJHR041	82	85	82	89	88	B/C
		Sg. Johor	3JJHR042	82	83	85	90	88	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Johor	Sg. Johor	Sg. Layang	3JJHR001	87	89	93	93	93	B/C
		Sg. Layau Kiri	3JJHR017	87	84	87	92	89	B/C
		Sg. Lebam	3JJHR020	83	85	79	87	88	B/C
		Sg. Linggiu	3JJHR030	85	88	84	93	92	B/C
		Sg. Panti	3JJHR037	80	72	79	87	86	B/C
		Sg. Papan	3JJHR034	81	83	81	86	87	B/C
		Sg. Pelepah	3JJHR039	94	93	95	97	97	B/C
		Sg. Pelepah	3JJHR043	81	89	86	87	87	B/C
		Sg. Pelepah	3JJHR044	83	89	87	88	90	B/C
		Sg. Pelepah	3JJHR045	88	92	90	92	93	B/C
		Sg. Penggeli	3JJHR028	85	90	89	87	90	B/C
		Sg. Penggeli	3JJHR031	82	85	89	88	89	B/C
		Sg. Remis	3JJHR026	83	86	86	89	89	B/C
		Sg. Santi	3JJHR022	87	85	89	87	90	B/C
		Sg. Sayong	3JJHR024	81	81	82	85	82	B/C
		Sg. Sayong	3JJHR025	82	85	78	84	88	B/C
		Sg. Sayong	3JJHR027	78	88	82	84	88	B/C
		Sg. Sayong	3JJHR033	82	87	83	88	89	B/C
		Sg. Sebol	3JJHR029	76	69	73	80	79	ST/SP
		Sg. Seluyut	3JJHR035	76	77	83	87	83	B/C
		Sg. Semangar	3JJHR008	81	82	81	92	90	B/C
		Sg. Semenchu	3JJHR018	69	35	66	85	86	B/C
		Sg. Sening	3JJHR021	89	83	89	93	96	B/C
		Sg. Serai	3JJHR002	66	57	67	60	62	ST/SP
		Sg. Telor	3JJHR012	84	84	88	89	93	B/C
		Sg. Temoh	3JJHR016	63	64	74	84	88	B/C
		Sg. Tiram	3JJHR003	68	67	71	79	77	ST/SP
		Sg. Tiram	3JJHR004	85	87	86	91	89	B/C
		Sg. Tiram	3JJHR005	67	69	69	68	77	ST/SP
		Sg. Tiram	3JJHR006	87	90	88	93	92	B/C
	Sg. Kaw. Pasir Gudang	Sg. Buluh	3JPGD002	25	41	41	43	40	T/P
		Sg. Lato	3JPGD004	64	58	62	68	71	ST/SP
		Sg. Masai	3JPGD005	55	50	63	60	63	ST/SP
		Sg. Perembi	3JPGD001	37	42	57	47	59	T/P
		Sg. Tukang Batu	3JPGD003	22	37	42	35	34	T/P
	Sg. Kempas	Sg. Kempas	3JKPS001	39	36	29	33	39	T/P
		Sg. Kempas	3JKPS002	55	44	37	42	43	T/P
	Sg. Kim-Kim	Sg. Kim-Kim	3JKIM001	36	43	51	66	57	T/P
		Sg. Kim-Kim	3JKIM002	83	83	85	90	89	B/C
	Sg. Mersing	Sg. Empangan Congok	3JMSG004	76	84	85	88	86	B/C
		Sg. Mersing	3JMSG001	91	90	87	95	93	B/C
		Sg. Mersing	3JMSG002	82	80	84	88	81	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Johor	Sg. Mersing	Sg. Mersing	3JMSG003	89	85	83	92	87	B/C
		Sg. Air Panas	3JMUA035	90	92	94	97	96	B/C
	Sg. Muar	Sg. Belemang	3JMUA051	89	90	94	95	94	B/C
		Sg. Gemas	3JMUA036	71	65	80	85	86	B/C
		Sg. Jementah	3JMUA040	91	91	93	96	95	B/C
		Sg. Juasseh	3JMUA014	88	89	94	96	92	B/C
		Sg. Juasseh	3JMUA037	91	88	93	95	95	B/C
		Sg. Juasseh	3JMUA045	89	86	94	95	94	B/C
		Sg. Labis	3JMUA011	81	79	89	88	87	B/C
		Sg. Labis	3JMUA012	81	77	89	89	88	B/C
		Sg. Labis	3JMUA015	85	82	87	87	82	B/C
		Sg. Meda	3JMUA034	86	82	82	85	80	ST/SP
		Sg. Merbudu	3JMUA030	69	65	63	77	72	ST/SP
		Sg. Merlimau	3JMUA020	55	59	70	66	73	ST/SP
		Sg. Muar	3JMUA017	79	81	82	86	81	B/C
		Sg. Muar	3JMUA019	81	82	85	87	76	ST/SP
		Sg. Muar	3JMUA022	81	84	85	89	82	B/C
		Sg. Muar	3JMUA026	81	82	84	89	85	B/C
		Sg. Muar	3JMUA027	78	77	85	84	83	B/C
		Sg. Muar	3JMUA028	77	81	83	81	83	B/C
		Sg. Muar	3JMUA029	74	81	75	84	85	B/C
		Sg. Muar	3JMUA031	73	81	77	83	84	B/C
		Sg. Muar	3JMUA033	79	80	73	77	80	ST/SP
		Sg. Muar	3JMUA039	79	81	82	85	82	B/C
		Sg. Muar	3JMUA041	77	82	80	86	84	B/C
		Sg. Muar	3JMUA042	77	81	78	86	85	B/C
		Sg. Muar	3JMUA043	77	82	79	83	85	B/C
		Sg. Muar	3JMUA046	76	78	86	89	83	B/C
		Sg. Muar	3JMUA047	77	78	81	87	84	B/C
		Sg. P. Mengkuang	3JMUA018	80	67	89	92	91	B/C
		Sg. Pagoh	3JMUA049	70	67	66	74	76	ST/SP
		Sg. Palong	3JMUA024	83	82	88	89	87	B/C
		Sg. Palong	3JMUA025	78	81	84	85	81	B/C
		Sg. Pendol	3JMUA050	83	89	90	95	93	B/C
		Sg. Sarang Buaya	3JMUA038	64	70	58	60	60	ST/SP
		Sg. Segamat	3JMUA016	83	82	89	90	86	B/C
		Sg. Segamat	3JMUA044	87	88	91	94	89	B/C
		Sg. Segamat	3JMUA048	87	89	92	95	91	B/C
		Sg. Senarut	3JMUA021	74	66	75	77	79	ST/SP
		Sg. Serom	3JMUA032	54	55	63	63	63	ST/SP
		Sg. Simpang Loi	3JMUA023	76	78	77	84	73	ST/SP
		Sg. Tenang	3JMUA013	66	68	79	76	81	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Johor	Sg. Paloi	Sg. Paloi	3JPAL001	85	80	89	90	90	B/C
		Sg. Air Hitam	3JPBS001	67	76	71	74	73	ST/SP
	Sg. Pontian Besar	Sg. Ayer Merah	3JPBS005	53	46	43	54	54	T/P
		Sg. Pontian Besar	3JPBS002	63	63	65	65	63	ST/SP
		Sg. Pontian Besar	3JPBS003	87	77	80	85	78	ST/SP
		Sg. Pontian Besar	3JPBS004	81	77	86	84	85	B/C
		Sg. Pontian Besar	3JPBS006	57	60	64	63	60	ST/SP
		Sg. Pontian Besar	3JPBS007	70	70	73	73	74	ST/SP
	Sg. Pontian Kecil	Sg. Pontian Kecil	3JPKC001	85	84	86	84	85	B/C
		Sg. Pontian Kecil	3JPKC002	74	60	76	75	70	ST/SP
	Sg. Pulai	Sg. Pulai	3JPLI001	74	79	82	83	86	B/C
		Sg. Pulai	3JPLI002	72	71	72	77	82	B/C
		Sg. Pulai Dam	3JPLI004	92	93	95	95	96	B/C
		Sg. Ulu Choh	3JPLI003	68	67	72	72	74	ST/SP
	Sg. Rambah	Sg. Rambah	3JRBH001	75	73	75	69	78	ST/SP
		Sg. Rambah	3JRBH002	66	55	65	63	70	ST/SP
	Sg. Sanglang	Sg. Sanglang	3JSLG001	63	60	59	57	51	T/P
	Sg. Sedili Besar	Sg. Ambat	3JSBE005	88	88	86	84	76	ST/SP
		Sg. Dohol	3JSBE001	85	88	89	90	86	B/C
		Sg. Mupur	3JSBE009	52	47	67	73	73	ST/SP
		Sg. Pasir Panjang	3JSBE010	85	87	88	87	76	ST/SP
		Sg. Sedili Besar	3JSBE002	82	82	86	86	86	B/C
		Sg. Sedili Besar	3JSBE004	86	89	91	93	91	B/C
		Sg. Sedili Besar	3JSBE006	79	76	82	87	85	B/C
		Sg. Sedili Besar	3JSBE007	73	65	74	72	70	ST/SP
		Sg. Sedili Besar	3JSBE008	82	85	87	89	85	B/C
		Sg. Sedili Besar	3JSBE011	85	88	90	88	87	B/C
		Sg. Temubor Kanan	3JSBE003	88	90	93	95	93	B/C
	Sg. Sedili Kecil	Sg. Anak Sedili Kecil	3JSKE005	29	30	25	24	74	ST/SP
		Sg. Anak Sedili Kecil	3JSKE006	78	76	79	85	75	ST/SP
		Sg. Bahan	3JSKE002	62	75	78	73	64	ST/SP
		Sg. Bahan	3JSKE004	57	76	74	78	76	ST/SP
		Sg. Sedili Kecil	3JSKE001	85	87	89	88	83	B/C
		Sg. Sedili Kecil	3JSKE003	77	77	80	76	78	ST/SP
	Sg. Segget	Sg. Segget	3JSGT001	68	55	81	71	64	ST/SP
		Sg. Segget	3JSGT002	68	55	77	68	72	ST/SP
		Sg. Segget	3JSGT003	51	50	59	67	65	ST/SP
		Sg. Segget	3JSGT004	57	54	63	78	76	ST/SP
		Sg. Segget	3JSGT005	51	50	54	65	72	ST/SP
	Sg. Skudai	Sg. Melana	3JSKU008	89	85	91	95	94	B/C
		Sg. Melana	3JSKU009	57	45	61	59	66	ST/SP
		Sg. Skudai	3JSKU001	52	44	55	63	65	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Johor	Sg. Skudai	Sg. Skudai	3JSKU002	53	49	66	71	65	ST/SP
		Sg. Skudai	3JSKU003	61	58	61	74	74	ST/SP
		Sg. Skudai	3JSKU004	87	86	89	90	93	B/C
		Sg. Skudai	3JSKU005	73	65	72	79	81	B/C
		Sg. Skudai	3JSKU006	65	58	66	76	77	ST/SP
		Sg. Skudai	3JSKU007	43	44	43	54	63	ST/SP
		Sg. Skudai	3JSKU010	56	52	55	62	61	ST/SP
		Sg. Skudai	3JSKU011	89	91	92	92	95	B/C
	Sg. Tebrau	Sg. Bala	3JTRU008	46	42	55	47	55	T/P
		Sg. Pandan	3JTRU007	44	43	46	43	58	T/P
		Sg. Plentong	3JTRU004	53	52	56	66	67	ST/SP
		Sg. Sebulung	3JTRU009	47	38	53	58	62	ST/SP
		Sg. Sengkuang	3JTRU011	29	35	52	53	50	T/P
		Sg. Tampoi	3JTRU010	48	44	52	60	58	T/P
		Sg. Tebrau	3JTRU001	38	40	44	65	57	T/P
		Sg. Tebrau	3JTRU002	60	61	55	72	54	T/P
		Sg. Tebrau	3JTRU003	58	61	65	72	68	ST/SP
		Sg. Tebrau	3JTRU005	49	49	57	65	62	ST/SP
		Sg. Tebrau	3JTRU006	58	58	64	69	71	ST/SP
Pahang	Sg. Anak Endau	Sg. Anak Endau	4CAED001	88	92	94	95	95	B/C
		Sg. Anak Endau	4CAED002	78	81	84	87	86	B/C
	Sg. Balok	Sg. Balok	4CBLK001	68	68	66	82	74	ST/SP
		Sg. Balok	4CBLK002	69	69	70	77	77	ST/SP
		Sg. Panjang	4CBLK004	79	86	76	78	72	ST/SP
		Sg. Yior	4CBLK003	64	64	62	75	74	ST/SP
	Sg. Bebar	Sg. Bebar	4CBBR001	76	79	76	86	83	B/C
		Sg. Bebar	4CBBR002	84	85	82	92	89	B/C
		Sg. Merba	4CBBR005	75	86	85	91	88	B/C
		Sg. Serai	4CBBR003	80	80	75	85	74	ST/SP
		Sg. Serai	4CBBR004	82	83	85	88	86	B/C
	Sg. Cherating	Sg. Cherating	4CCHE001	83	79	81	86	85	B/C
	Sg. Kuantan	Sg. Belat	4CKTN001	83	79	80	86	88	B/C
		Sg. Charu	4CKTN006	86	92	93	96	95	B/C
		Sg. Galing Besar	4CKTN003	67	64	63	70	76	ST/SP
		Sg. Galing Besar	4CKTN004	68	61	64	62	76	ST/SP
		Sg. Kenau	4CKTN010	89	90	94	97	96	B/C
		Sg. Kuantan	4CKTN002	82	85	88	93	87	B/C
		Sg. Kuantan	4CKTN015	83	84	87	93	87	B/C
		Sg. Kuantan	4CKTN016	85	88	90	93	94	B/C
		Sg. Kuantan	4CKTN017	87	91	93	96	96	B/C
		Sg. Kuantan	4CKTN018	91	92	94	96	97	B/C
		Sg. Kuantan	4CKTN019	81	81	80	85	87	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Pahang	Sg. Kuantan	Sg. Kuantan	4CKTN020	84	87	86	93	87	B/C
		Sg. Kuantan	4CKTN021	83	83	85	88	89	B/C
		Sg. Pandan	4CKTN012	86	83	87	93	94	B/C
		Sg. Pinang	4CKTN005	85	89	80	88	88	B/C
		Sg. Reman	4CKTN014	82	86	87	91	90	B/C
		Sg. Riau	4CKTN007	83	84	84	88	88	B/C
		Sg. Talam	4CKTN013	80	69	72	70	76	ST/SP
	Sg. Merchong	Sg. Merchong	4CMCO002	77	85	82	92	86	B/C
		Sg. Merchong	4CMCO003	80	87	89	93	89	B/C
	Sg. Pahang	Sg. Anak Sg. Lepar	4CPHG136	84	84	85	93	89	B/C
		Sg. Batu	4CPHG056	82	79	84	92	91	B/C
		Sg. Belayar	4CPHG135	91	89	94	94	92	B/C
		Sg. Bentong	4CPHG040	89	92	92	95	95	B/C
		Sg. Bentong	4CPHG045	81	82	87	91	89	B/C
		Sg. Bentong	4CPHG092	82	84	92	95	90	B/C
		Sg. Bentong	4CPHG133	85	79	86	93	94	B/C
		Sg. Bentong	4CPHG134	91	86	92	96	96	B/C
		Sg. Bentong	4CPHG144	81	82	86	89	88	B/C
		Sg. Benus	4CPHG047	82	82	91	91	91	B/C
		Sg. Benus	4CPHG118	90	85	94	94	92	B/C
		Sg. Benus	4CPHG152	89	87	93	96	91	B/C
		Sg. Bera	4CPHG019	79	82	83	86	85	B/C
		Sg. Bera	4CPHG020	80	82	84	86	89	B/C
		Sg. Bera	4CPHG058	80	85	85	86	88	B/C
		Sg. Bera	4CPHG059	83	88	85	91	85	B/C
		Sg. Bera	4CPHG063	86	85	85	86	85	B/C
		Sg. Berkelah	4CPHG098	92	92	93	97	97	B/C
		Sg. Bertam	4CBTM002	86	88	91	94	89	B/C
		Sg. Bertam	4CBTM010	76	81	74	79	78	ST/SP
		Sg. Bertam	4CBTM011	93	94	96	96	97	B/C
		Sg. Bertam	4CBTM013	92	94	97	97	97	B/C
		Sg. Bilut	4CPHG119	84	82	83	88	85	B/C
		Sg. Bilut	4CPHG129	85	87	85	92	92	B/C
		Sg. Burung	4CBTM005	91	92	96	96	95	B/C
		Sg. Chini	4CPHG004	80	86	82	84	85	B/C
		Sg. Gapoi	4CPHG086	92	94	94	97	96	B/C
		Sg. Habu	4CBTM004	88	88	90	96	94	B/C
		Sg. Jelai	4CPHG0130	88	88	90	93	93	B/C
		Sg. Jelai	4CPHG096	83	86	86	91	88	B/C
		Sg. Jelai	4CPHG125	82	87	88	90	90	B/C
		Sg. Jempol	4CPHG049	84	86	83	91	90	B/C
		Sg. Jempol	4CPHG050	86	90	93	97	94	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Pahang	Sg. Pahang	Sg. Jempol	4CPHG087	87	89	93	95	93	B/C
		Sg. Jempol	4CPHG088	83	89	90	95	91	B/C
		Sg. Jempol	4CPHG121	86	79	85	95	94	B/C
		Sg. Jengka	4CPHG041	86	88	92	95	93	B/C
		Sg. Jengka	4CPHG051	84	85	86	89	90	B/C
		Sg. Kecau	4CPHG091	82	74	83	87	91	B/C
		Sg. Kecau	4CPHG116	81	80	84	87	84	B/C
		Sg. Kecau	4CPHG151	85	84	89	89	95	B/C
		Sg. Kelau	4CPHG117	86	86	88	91	94	B/C
		Sg. Kelau	4CPHG145	82	82	82	86	86	B/C
		Sg. Kelau	4CPHG146	88	85	91	93	94	B/C
		Sg. Kelau	4CPHG153	81	83	84	89	84	B/C
		Sg. Kertam	4CPHG014	83	90	91	91	93	B/C
		Sg. Koyan	4CPHG033	89	88	89	94	92	B/C
		Sg. Krau	4CPHG003	89	90	92	94	92	B/C
		Sg. Kundang	4CPHG018	86	86	79	82	85	B/C
		Sg. Lengkok	4CBTM003	90	91	93	96	92	B/C
		Sg. Lepar	4CPHG006	87	91	92	91	93	B/C
		Sg. Lipis	4CPHG029	81	85	85	90	89	B/C
		Sg. Lipis	4CPHG030	86	86	88	91	91	B/C
		Sg. Lipis	4CPHG035	89	91	93	96	94	B/C
		Sg. Luit	4CPHG015	85	89	91	93	92	B/C
		Sg. Maran	4CPHG016	85	90	93	96	96	B/C
		Sg. Mentiga	4CPHG005	80	85	80	77	83	B/C
		Sg. Mentiga	4CPHG042	83	87	85	86	88	B/C
		Sg. Mentiga	4CPHG089	85	82	85	87	89	B/C
		Sg. Pahang	4CPHG007	82	83	82	90	88	B/C
		Sg. Pahang	4CPHG008	87	86	93	93	91	B/C
		Sg. Pahang	4CPHG010	84	86	87	90	92	B/C
		Sg. Pahang	4CPHG011	83	85	88	93	89	B/C
		Sg. Pahang	4CPHG012	85	90	89	93	90	B/C
		Sg. Pahang	4CPHG013	79	86	89	91	90	B/C
		Sg. Pahang	4CPHG021	85	83	87	92	90	B/C
		Sg. Pahang	4CPHG022	78	88	87	91	91	B/C
		Sg. Pahang	4CPHG023	91	91	91	94	92	B/C
		Sg. Pahang	4CPHG027	87	83	88	94	92	B/C
		Sg. Pahang	4CPHG054	85	87	87	90	88	B/C
		Sg. Pahang	4CPHG055	80	83	86	91	90	B/C
		Sg. Pahang	4CPHG097	83	84	88	93	89	B/C
		Sg. Pahang	4CPHG100	85	83	84	89	88	B/C
		Sg. Pahang	4CPHG104	87	87	87	91	90	B/C
		Sg. Pahang	4CPHG111	80	83	89	92	93	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Pahang	Sg. Pahang	Sg. Pahang	4CPHG113	85	84	87	92	88	B/C
		Sg. Pahang	4CPHG124	88	87	89	91	91	B/C
		Sg. Pahang	4CPHG126	81	89	88	92	91	B/C
		Sg. Pahang	4CPHG127	85	84	89	88	96	B/C
		Sg. Pahang	4CPHG131	81	84	88	88	89	B/C
		Sg. Pahang	4CPHG137	82	85	86	93	90	B/C
		Sg. Pahang	4CPHG138	83	84	85	90	89	B/C
		Sg. Pahang	4CPHG139	84	82	83	90	89	B/C
		Sg. Pahang	4CPHG141	79	83	87	91	93	B/C
		Sg. Pahang	4CPHG148	82	85	88	92	88	B/C
		Sg. Pahang	4CPHG150	83	86	87	89	89	B/C
		Sg. Penjuring	4CPHG044	91	87	94	97	97	B/C
		Sg. Pertang	4CPHG132	83	79	91	90	91	B/C
		Sg. Perting	4CPHG120	90	91	94	96	97	B/C
		Sg. Raub	4CPHG123	89	89	93	95	95	B/C
		Sg. Retang	4CPHG105	87	87	92	93	94	B/C
		Sg. Ringlet	4CBTM001	83	82	83	91	89	B/C
		Sg. Salak	4CPHG122	86	89	87	91	91	B/C
		Sg. Semantan	4CPHG025	83	83	87	92	88	B/C
		Sg. Semantan	4CPHG036	89	90	91	92	93	B/C
		Sg. Semantan	4CPHG061	85	84	87	90	85	B/C
		Sg. Semantan	4CPHG084	84	86	88	93	88	B/C
		Sg. Serting	4CPHG101	80	80	84	85	86	B/C
		Sg. Serting	4CPHG102	83	83	85	84	86	B/C
		Sg. T. Paya Bungor	4CPHG002	84	85	91	91	92	B/C
		Sg. Tahan	4CPHG109	87	88	91	92	94	B/C
		Sg. Tanglir	4CPHG048	86	87	88	94	90	B/C
		Sg. Tanglir	4CPHG053	83	87	89	87	89	B/C
		Sg. Tanglir	4CPHG057	83	84	87	84	89	B/C
		Sg. Tanglir	4CPHG106	80	86	88	86	87	B/C
		Sg. Tanglir	4CPHG107	84	86	88	88	90	B/C
		Sg. Tasik Bera	4CPHG140	84	86	91	88	89	B/C
		Sg. Tasik Chini	4CPHG043	88	89	92	88	93	B/C
		Sg. Tasik Chini	4CPHG060	90	90	93	90	92	B/C
		Sg. Tasik Chini	4CPHG071	89	90	91	92	93	B/C
		Sg. Tasik Chini	4CPHG108	88	90	92	93	93	B/C
		Sg. Tasik Chini	4CPHG110	89	90	91	87	93	B/C
		Sg. Tasik Chini	4CPHG112	89	90	93	89	92	B/C
		Sg. Tasik Chini	4CPHG114	90	89	92	92	93	B/C
		Sg. Tasik Chini	4CPHG115	90	91	92	90	92	B/C
		Sg. Tasik Chini	4CPHG130	92	89	92	90	92	B/C
		Sg. Tasik Chini	4CPHG143	89	89	92	87	90	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Pahang	Sg. Pahang	Sg. Teh	4CPHG090	80	90	93	94	94	B/C
		Sg. Tekal	4CPHG062	83	81	85	89	87	B/C
		Sg. Telang	4CPHG032	89	90	91	94	93	B/C
		Sg. Telemong	4CPHG046	89	86	94	96	95	B/C
		Sg. Telemong	4CPHG093	85	91	93	93	93	B/C
		Sg. Telemong	4CPHG094	91	89	91	97	94	B/C
		Sg. Telom	4CBTM008	86	86	86	95	94	B/C
		Sg. Telom	4CBTM009	83	83	86	93	92	B/C
		Sg. Tembeling	4CPHG142	84	88	91	90	94	B/C
		Sg. Teranum	4CPHG038	88	87	95	96	96	B/C
		Sg. Teras	4CPHG037	90	87	93	96	95	B/C
		Sg. Teras	4CPHG147	88	88	91	96	96	B/C
		Sg. Teris	4CPHG081	89	87	91	94	95	B/C
		Sg. Teris	4CPHG082	87	87	92	95	94	B/C
		Sg. Teris	4CPHG083	88	88	92	94	94	B/C
		Sg. Terla	4CBTM007	91	91	92	95	97	B/C
		Sg. Terla	4CBTM012	92	88	95	97	97	B/C
		Sg. Triang	4CPHG024	84	85	88	91	85	B/C
		Sg. Triang	4CPHG074	83	86	88	91	84	B/C
		Sg. Tringkap	4CBTM006	85	82	89	94	96	B/C
		Sg. Ulong	4CBTM014	93	94	96	97	97	B/C
	Sg. Rompin	Sg. Aur	4CRPN005	84	86	86	91	90	B/C
		Sg. Bakar	4CRPN016	80	71	75	69	92	B/C
		Sg. Jekatih	4CRPN012	83	86	87	91	92	B/C
		Sg. Jekatih	4CRPN013	84	84	87	90	91	B/C
		Sg. Jeram	4CRPN006	84	88	88	93	90	B/C
		Sg. Kepasing	4CRPN010	79	81	88	90	92	B/C
		Sg. Keratong	4CRPN011	83	82	84	87	91	B/C
		Sg. Keratong	4CRPN018	83	86	84	91	91	B/C
		Sg. Keratong	4CRPN021	82	85	86	93	90	B/C
		Sg. Keratong	4CRPN022	81	83	88	93	90	B/C
		Sg. Pontian	4CRPN003	86	87	85	90	84	B/C
		Sg. Pukin	4CRPN014	80	83	87	90	92	B/C
		Sg. Pukin	4CRPN015	79	83	84	90	94	B/C
		Sg. Pukin	4CRPN017	84	83	87	89	94	B/C
		Sg. Rompin	4CRPN004	82	86	78	88	87	B/C
		Sg. Rompin	4CRPN007	84	88	79	92	88	B/C
		Sg. Rompin	4CRPN008	83	86	85	93	91	B/C
		Sg. Rompin	4CRPN020	82	87	83	93	91	B/C
		Sg. Rompin	4CRPN030	84	86	86	90	91	B/C
		Sg. Sepayang	4CRPN002	82	84	77	84	86	B/C
	Sg. Tonggok	Sg. Tonggok	4CTGK001	69	73	80	82	67	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Pahang	Sg. Tonggok	Sg. Tonggok	4CTGK002	66	63	65	80	75	ST/SP
Terengganu	Sg. Besut	Sg. Besut	4TBST002	88	89	91	93	94	B/C
		Sg. Besut	4TBST003	89	91	92	94	93	B/C
		Sg. Besut	4TBST004	90	91	93	96	93	B/C
		Sg. Besut	4TBST005	87	91	92	93	95	B/C
		Sg. Besut	4TBST006	84	89	92	94	95	B/C
		Sg. Jertih	4TBST001	85	84	88	92	91	B/C
	Sg. Chukai	Sg. Bungkus	4TCKI006	80	82	80	83	81	B/C
		Sg. Chukai	4TCKI003	79	80	80	87	88	B/C
		Sg. Ibok	4TCKI001	80	79	81	87	89	B/C
		Sg. Ibok	4TCKI002	84	86	91	91	87	B/C
		Sg. Ruang	4TCKI004	76	74	74	80	80	ST/SP
		Sg. Ruang	4TCKI005	74	73	65	80	79	ST/SP
	Sg. Dungun	Sg. Dungun	4TDGN002	88	90	92	96	95	B/C
		Sg. Dungun	4TDGN003	90	88	91	95	93	B/C
		Sg. Dungun	4TDGN004	88	88	90	94	91	B/C
		Sg. Dungun	4TDGN005	91	90	90	94	92	B/C
		Sg. Dungun	4TDGN006	90	85	91	94	91	B/C
		Sg. Telemboh	4TDGN001	83	86	86	89	89	B/C
	Sg. Ibai	Sg. Ibai	4TIBI001	72	77	81	75	73	ST/SP
		Sg. Ibai	4TIBI002	76	81	79	84	83	B/C
		Sg. Ibai	4TIBI003	81	79	85	82	87	B/C
	Sg. Kemaman	Sg. Cherul	4TKMM003	87	84	90	92	92	B/C
		Sg. Cherul	4TKMM004	85	85	91	91	90	B/C
		Sg. Cherul	4TKMM010	87	81	89	90	91	B/C
		Sg. Kemaman	4TKMM007	90	90	92	95	95	B/C
		Sg. Kemaman	4TKMM008	83	85	87	94	89	B/C
		Sg. Kemaman	4TKMM009	81	82	86	90	92	B/C
		Sg. Neram	4TKMM005	73	31	75	86	85	B/C
		Sg. Perasing	4TKMM006	85	82	82	92	94	B/C
		Sg. Ransan	4TKMM001	70	64	65	78	79	ST/SP
		Sg. Ransan	4TKMM002	88	87	91	95	95	B/C
	Sg. Kertih	Sg. Kertih	4TKTH001	84	84	82	88	91	B/C
		Sg. Kertih	4TKTH002	85	83	87	83	86	B/C
	Sg. Kluang	Sg. Kluang	4TKLU005	82	83	88	84	84	B/C
	Sg. Marang	Sg. Kerak	4TMRG001	70	81	79	82	85	B/C
		Sg. Marang	4TMRG002	85	83	88	89	94	B/C
		Sg. Temala	4TMRG003	85	87	91	92	91	B/C
		Sg. Merang	4TMR001	81	77	82	77	77	ST/SP
	Sg. Merchang	Sg. Landas	4TMCA001	69	65	71	87	87	B/C
		Sg. Merchang	4TMCA002	70	72	71	80	73	ST/SP
	Sg. Paka	Sg. Besul	4TPKA001	87	86	92	96	96	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Terengganu	Sg. Paka	Sg. Paka	4TPKA005	84	84	87	88	89	B/C
		Sg. Paka	4TPKA006	85	84	88	92	91	B/C
		Sg. Paka	4TPKA007	89	87	88	90	91	B/C
		Sg. Rasau	4TPKA003	83	79	83	85	86	B/C
		Sg. Rasau	4TPKA004	75	79	77	83	79	ST/SP
		Sg. Rengat	4TPKA002	87	85	84	91	91	B/C
	Sg. Setiu	Sg. Bari	4TSTU002	90	91	92	95	95	B/C
		Sg. Chalok	4TSTU001	90	86	85	94	91	B/C
		Sg. Chalok	4TSTU005	89	89	90	92	93	B/C
		Sg. Chalok	4TSTU006	82	84	83	83	85	B/C
		Sg. Setiu	4TSTU004	86	84	87	93	93	B/C
		Sg. Setiu	4TSTU007	90	86	90	94	93	B/C
		Sg. Tarom	4TSTU003	89	88	89	94	95	B/C
	Sg. Terengganu	Sg. Berang	4TTGG002	88	91	89	92	96	B/C
		Sg. Berang	4TTGG011	92	90	92	97	96	B/C
		Sg. Nerus	4TTGG004	88	84	85	91	87	B/C
		Sg. Nerus	4TTGG005	89	91	92	95	96	B/C
		Sg. Nerus	4TTGG006	89	91	89	93	95	B/C
		Sg. Nerus	4TTGG010	68	60	66	68	72	ST/SP
		Sg. Nerus	4TTGG014	85	87	90	94	94	B/C
		Sg. Nerus	4TTGG015	88	90	91	94	95	B/C
		Sg. Pueh	4TTGG007	63	65	70	82	86	B/C
		Sg. Pueh	4TTGG008	75	72	77	89	93	B/C
		Sg. Telemong	4TTGG012	84	89	88	93	91	B/C
		Sg. Terengganu	4TTGG001	85	86	87	91	90	B/C
		Sg. Terengganu	4TTGG003	90	91	90	95	96	B/C
		Sg. Terengganu	4TTGG009	84	87	87	88	89	B/C
		Sg. Terengganu	4TTGG013	88	89	89	92	93	B/C
Kelantan	Sg. Golok	Sg. Golok	4DGLK002	83	87	86	93	91	B/C
		Sg. Golok	4DGLK003	90	90	94	97	94	B/C
		Sg. Golok	4DGLK004	86	82	87	93	89	B/C
		Sg. Golok	4DGLK005	80	86	89	93	90	B/C
		Sg. Golok	4DGLK006	83	84	86	91	88	B/C
		Sg. Jedok	4DGLK008	86	88	90	95	95	B/C
		Sg. Lanas	4DGLK007	85	86	84	94	90	B/C
		Sg. Tasik Garu	4DGLK001	78	76	80	85	82	B/C
	Sg. Kelantan	Sg. Aring	4DKLT013	76	76	79	80	83	B/C
		Sg. Belatop	4DKLT020	79	80	83	89	87	B/C
		Sg. Belatop	4DKLT021	86	86	87	96	93	B/C
		Sg. Belatop	4DKLT046	77	74	78	82	82	B/C
		Sg. Ber	4DKLT018	79	84	87	91	91	B/C
		Sg. Berok	4DKLT016	75	79	81	83	85	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Kelantan	Sg. Kelantan	Sg. Berok	4DKLT019	80	82	88	90	90	B/C
		Sg. Berok	4DKLT022	79	81	81	84	81	B/C
		Sg. Betis	4DKLT017	83	84	86	93	92	B/C
		Sg. Chiku	4DKLT037	84	83	88	88	90	B/C
		Sg. Chiku	4DKLT043	86	87	89	90	92	B/C
		Sg. Galas	4DKLT014	84	83	89	89	81	B/C
		Sg. Galas	4DKLT031	88	86	89	90	92	B/C
		Sg. Galas	4DKLT032	85	87	87	92	87	B/C
		Sg. Galas	4DKLT033	83	79	84	81	91	B/C
		Sg. Galas	4DKLT034	82	81	82	79	92	B/C
		Sg. Isos	4DKLT049	68	73	73	73	78	ST/SP
		Sg. Kelantan	4DKLT001	79	82	82	83	87	B/C
		Sg. Kelantan	4DKLT006	81	78	78	87	89	B/C
		Sg. Kelantan	4DKLT010	82	81	84	83	82	B/C
		Sg. Kelantan	4DKLT045	81	78	80	84	87	B/C
		Sg. Kelantan	4DKLT054	84	87	88	89	91	B/C
		Sg. Kelantan	4DKLT055	85	85	85	93	90	B/C
		Sg. Kelantan	4DKLT056	79	78	81	83	87	B/C
		Sg. Kelesa	4DKLT015	80	84	87	94	91	B/C
		Sg. Kenkren	4DKLT047	89	88	92	93	94	B/C
		Sg. Kerilla	4DKLT002	89	87	92	94	94	B/C
		Sg. Kerilla	4DKLT003	89	90	91	94	93	B/C
		Sg. Ketil	4DKLT036	86	86	90	97	90	B/C
		Sg. Ketil	4DKLT053	86	84	90	96	90	B/C
		Sg. Lebir	4DKLT026	85	89	92	94	91	B/C
		Sg. Lebir	4DKLT027	80	78	85	87	79	ST/SP
		Sg. Lebir	4DKLT028	84	85	88	94	94	B/C
		Sg. Lebir	4DKLT029	82	82	84	87	81	B/C
		Sg. Lebir	4DKLT058	88	85	88	95	91	B/C
		Sg. Muring	4DKLT059	88	84	85	92	90	B/C
		Sg. Nal	4DKLT007	87	89	89	93	90	B/C
		Sg. Nal	4DKLT008	81	85	88	91	89	B/C
		Sg. Nal	4DKLT009	83	85	87	91	88	B/C
		Sg. Nenggiri	4DKLT023	77	82	82	83	86	B/C
		Sg. Nenggiri	4DKLT024	80	80	83	86	87	B/C
		Sg. Nenggiri	4DKLT025	79	80	80	78	91	B/C
		Sg. Pehi	4DKLT011	89	87	88	92	91	B/C
		Sg. Pehi	4DKLT044	84	88	86	90	91	B/C
		Sg. Pelaur	4DKLT048	90	88	90	96	95	B/C
		Sg. Penangau	4DKLT050	81	82	78	87	89	B/C
		Sg. Pergau	4DKLT004	91	93	91	96	97	B/C
		Sg. Pergau	4DKLT005	90	89	90	95	94	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Kelantan	Sg. Kelantan	Sg. Pergau	4DKLT038	89	92	94	96	97	B/C
		Sg. Pergau	4DKLT039	91	92	94	97	97	B/C
		Sg. Pergau	4DKLT040	92	93	94	97	97	B/C
		Sg. Pergau	4DKLT041	86	87	90	94	93	B/C
		Sg. Pergau	4DKLT051	92	92	91	96	97	B/C
		Sg. Pergau	4DKLT052	90	88	92	94	94	B/C
		Sg. Rasau	4DKLT061	78	81	80	80	85	B/C
		Sg. Relai	4DKLT012	80	83	90	91	88	B/C
		Sg. Relai	4DKLT030	86	86	88	91	94	B/C
		Sg. Sokor	4DKLT042	87	83	86	89	89	B/C
		Sg. Tuang	4DKLT035	89	87	90	94	91	B/C
	Sg. Kemasin	Sg. Gali	4DKMS006	76	76	79	75	83	B/C
		Sg. Kemasin	4DKMS001	83	83	84	90	90	B/C
		Sg. Kemasin	4DKMS003	77	73	75	76	76	ST/SP
		Sg. Semerak	4DKMS002	86	84	85	91	88	B/C
		Sg. Semerak	4DKMS004	88	83	86	89	89	B/C
		Sg. Semerak	4DKMS005	85	88	80	77	80	ST/SP
	Sg. Pengkalan Chepa	Sg. Alor B	4DPCH003	57	48	65	63	59	T/P
		Sg. Alor Lintah	4DPCH004	62	61	76	68	70	ST/SP
		Sg. Keladi	4DPCH002	79	78	76	84	89	B/C
		Sg. Pengkalan Chepa	4DPCH005	62	50	68	70	70	ST/SP
		Sg. Pengkalan Chepa	4DPCH006	71	69	75	82	76	ST/SP
		Sg. Raja Gali	4DPCH001	72	73	79	87	81	B/C
	Sg. Pengkalan Datu	Sg. Pasir Hor	4DPDT004	78	67	73	77	75	ST/SP
		Sg. Pengkalan Datu	4DPDT001	75	76	83	86	88	B/C
		Sg. Pengkalan Datu	4DPDT002	80	73	83	87	85	B/C
		Sg. Pengkalan Datu	4DPDT003	80	77	86	86	87	B/C
Sarawak	Sg. Balingian	Sg. Balingian	6QBLG001	75	83	90	87	84	B/C
		Sg. Balingian	6QBLG002	88	88	88	86	89	B/C
	Sg. Baram	Sg. Baram	6QBRM001	83	86	79	81	83	B/C
		Sg. Baram	6QBRM002	80	85	81	83	83	B/C
		Sg. Baram	6QBRM003	86	90	89	89	88	B/C
		Sg. Baram	6QBRM004	85	92	90	88	88	B/C
		Sg. Tutuh	6QBRM005	85	92	90	-	87	B/C
	Sg. Kayan	Sg. Kayan	6QKYN001	75	77	77	76	76	ST/SP
		Sg. Kayan	6QKYN002	76	79	82	83	84	B/C
		Sg. Kayan	6QKYN003	87	85	87	88	87	B/C
	Sg. Kemena	Sg. Kemena	6QKMN001	83	82	82	82	82	B/C
		Sg. Kemena	6QKMN002	83	84	89	83	84	B/C
		Sg. Kemena	6QKMN003	89	86	81	80	85	B/C
		Sg. Kemena	6QKMN004	88	89	91	83	84	B/C
		Sg. Sibiu	6QKMN005	87	83	81	79	83	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sarawak	Sg. Kerian	Sg. Kerian	6QKRN014	77	80	82	81	86	B/C
		Sg. Kerian	6QKRN015	89	86	89	84	88	B/C
		Sg. Seblak	6QKRN016	85	82	84	88	87	B/C
		Sg. Selalang	6QKRN017	93	91	92	92	90	B/C
	Sg. Lawas	Sg. Lawas	6QLWS001	88	91	89	87	90	B/C
		Sg. Lawas	6QLWS002	86	90	87	88	91	B/C
		Sg. Lawas	6QLWS003	86	91	89	90	92	B/C
	Sg. Limbang	Sg. Limbang	6QLBG001	84	90	88	86	88	B/C
		Sg. Limbang	6QLBG002	84	91	87	86	88	B/C
		Sg. Limbang	6QLBG003	87	91	88	90	89	B/C
		Sg. Limbang	6QLBG004	88	92	90	91	88	B/C
		Sg. Limbang	6QLBG005	90	92	92	88	90	B/C
	Sg. Lupar	Sg. Ai	6QLPR001	91	92	89	91	88	B/C
		Sg. Ai	6QLPR002	92	92	91	91	89	B/C
		Sg. Lupar	6QLPR003	82	81	77	83	88	B/C
		Sg. Lupar	6QLPR004	80	81	82	85	87	B/C
		Sg. Lupar	6QLPR005	90	91	89	85	90	B/C
		Sg. Sekerang	6QLPR006	90	91	92	88	87	B/C
		Sg. Seterap	6QLPR007	86	86	82	86	89	B/C
		Sg. Undup	6QLPR008	91	88	91	85	89	B/C
	Sg. Miri	Sg. Adong	6QMRI001	54	70	83	78	57	T/P
		Sg. Dalam	6QMRI002	71	74	84	83	80	ST/SP
		Sg. Lutong	6QMRI003	72	86	80	82	83	B/C
		Sg. Lutong	6QMRI004	72	86	77	80	74	ST/SP
		Sg. Miri	6QMRI005	56	75	87	88	56	T/P
		Sg. Miri	6QMRI006	60	76	88	88	60	ST/SP
		Sg. Padang Liku	6QMRI007	80	90	89	88	83	B/C
	Sg. Mukah	Sg. Mukah	6QMKH001	78	81	85	80	81	B/C
		Sg. Mukah	6QMKH002	71	83	89	82	86	B/C
		Sg. Mukah	6QMKH003	77	85	89	81	86	B/C
		Sg. Mukah	6QMKH004	87	88	89	87	88	B/C
		Sg. Mukah	6QMKH005	85	83	89	84	87	B/C
	Sg. Niah	Sg. Niah	6QNIA001	89	90	86	87	85	B/C
	Sg. Niah	Sg. Niah	6QNIA002	88	90	86	86	86	B/C
		Sg. Sekaloh	6QNIA003	71	69	68	64	79	ST/SP
		Sg. Sekaloh	6QNIA004	85	83	87	86	84	B/C
	Sg. Oya	Sg. Oya	6QOYA001	81	82	79	76	83	B/C
		Sg. Oya	6QOYA002	72	84	89	81	87	B/C
		Sg. Oya	6QOYA003	86	91	89	89	86	B/C
	Sg. Rajang	Sg. Baloi	6QRJG019	84	89	89	-	89	B/C
		Sg. Binatang	6QRJG004	89	89	89	89	87	B/C
		Sg. Daro	6QRJG021	63	76	80	62	66	ST/SP



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sarawak	Sg. Rajang	Sg. Jemoreng	6QRJG022	61	78	80	63	66	ST/SP
		Sg. Julau	6QRJG005	91	90	88	86	85	B/C
		Sg. Kanowit	6QRJG006	87	88	89	87	87	B/C
		Sg. Meradong	6QRJG003	84	86	80	82	85	B/C
		Sg. Pakan	6QRJG020	91	89	88	89	88	B/C
		Sg. Pila Parit	6QRJG023	69	81	62	77	78	ST/SP
		Sg. Rajang	6QRJG008	86	82	83	86	86	B/C
		Sg. Rajang	6QRJG009	86	80	84	86	87	B/C
		Sg. Rajang	6QRJG010	86	85	82	86	85	B/C
		Sg. Rajang	6QRJG011	84	86	80	85	87	B/C
		Sg. Rajang	6QRJG012	73	78	85	84	89	B/C
		Sg. Rajang	6QRJG013	85	85	87	86	87	B/C
		Sg. Rajang	6QRJG014	84	85	85	84	86	B/C
		Sg. Rajang	6QRJG015	85	88	85	83	84	B/C
		Sg. Rajang	6QRJG016	83	88	85	86	87	B/C
		Sg. Rajang	6QRJG017	85	88	90	86	86	B/C
		Sg. Rajang	6QRJG018	86	87	90	84	87	B/C
		Sg. Salim	6QRJG007	77	80	83	81	86	B/C
		Sg. Sarikei	6QRJG001	84	83	80	86	87	B/C
		Sg. Sarikei	6QRJG002	88	90	89	90	88	B/C
	Sg. Sadong	Sg. Karangan	6QSDG001	66	71	68	69	76	ST/SP
		Sg. Karangan	6QSDG002	81	83	87	87	88	B/C
		Sg. Sadong	6QSDG003	75	75	73	81	84	B/C
		Sg. Sadong	6QSDG004	65	71	72	66	78	ST/SP
		Sg. Sadong	6QSDG005	90	87	88	90	87	B/C
		Sg. Sadong	6QSDG006	91	89	90	91	88	B/C
		Sg. Tarat	6QSDG007	92	90	91	90	90	B/C
	Sg. Sarawak	Sg. Kelantan	6QSWK017	86	84	74	59	68	ST/SP
		Sg. Kuap	6QSWK009	84	83	79	88	86	B/C
		Sg. Kuap	6QSWK010	89	87	87	88	89	B/C
		Sg. Maong Kiri	6QSWK011	68	76	72	73	82	B/C
		Sg. Samarahan	6QSWK013	66	68	65	63	66	ST/SP
		Sg. Samarahan	6QSWK014	83	79	80	85	87	B/C
		Sg. Sarawak	6QSWK001	85	83	81	84	84	B/C
		Sg. Sarawak	6QSWK003	86	85	83	85	87	B/C
		Sg. Sarawak	6QSWK004	91	86	88	87	88	B/C
		Sg. Sarawak	6QSWK006	85	82	84	80	84	B/C
		Sg. Sarawak	6QSWK007	92	89	90	88	91	B/C
		Sg. Sarawak	6QSWK008	91	90	91	89	90	B/C
		Sg. Sarawak Kanan	6QSWK002	86	85	82	84	85	B/C
		Sg. Sarawak Kiri	6QSWK005	92	87	88	87	87	B/C
		Sg. Semadang	6QSWK016	93	90	89	90	90	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sarawak	Sg. Sarawak	Sg. Semenggoh	6QSWK012	67	77	71	78	83	B/C
		Sg. Tabuan	6QSWK015	80	73	77	76	78	ST/SP
		Sg. Tapa	6QSWK018	89	89	89	91	90	B/C
	Sg. Saribas	Sg. Layar	6QSRB002	79	86	85	88	87	B/C
		Sg. Layar	6QSRB003	91	90	87	90	88	B/C
		Sg. Saribas	6QSRB001	78	80	74	79	87	B/C
	Sg. Semunsam	Sg. Semunsam	6QSMS001	89	85	87	80	85	B/C
	Sg. Sibuti	Sg. Kabuloh	6QSBT001	56	64	76	61	70	ST/SP
		Sg. Kabuloh	6QSBT002	88	72	69	64	87	B/C
		Sg. Kejapil	6QSBT003	85	90	88	89	85	B/C
		Sg. Satap	6QSBT004	79	86	88	84	84	B/C
		Sg. Sibuti	6QSBT005	82	88	82	84	77	ST/SP
		Sg. Sibuti	6QSBT006	85	86	87	88	84	B/C
	Sg. Similajau	Sg. Similajau	6QSML001	90	89	90	86	86	B/C
		Sg. Similajau	6QSML002	88	88	89	84	88	B/C
	Sg. Suai	Sg. Suai	6QSUA001	84	89	88	87	85	B/C
	Sg. Tatau	Sg. Tatau	6QTTU001	86	87	88	85	86	B/C
	Sg. Trusan	Sg. Trusan	6QTSN001	90	92	88	88	90	B/C
Sabah	Sg. Apas	Sg. Apas	5SAPS001	89	91	89	90	92	B/C
		Sg. Balung	5SBLU001	89	93	87	91	92	B/C
	Sg. Bengkoka	Sg. Bengkoka	5SBKK001	88	88	90	91	90	B/C
		Sg. Bengkoka	5SBKK002	87	85	86	86	88	B/C
	Sg. Bingkongan	Sg. Bandau	5SBKG001	91	90	91	92	92	B/C
		Sg. Bingkongan	5SBKG005	92	92	92	94	93	B/C
		Sg. Bingkongan	5SBKG006	92	93	91	94	94	B/C
		Sg. Menggaris	5SBKG002	93	91	93	93	90	B/C
		Sg. Menggaris	5SBKG003	91	92	92	92	93	B/C
		Sg. Tandek	5SBKG004	90	90	91	91	91	B/C
	Sg. Bongawan	Sg. Bongawan	5SBGW001	90	88	87	87	88	B/C
	Sg. Brantian	Sg. Brantian	5SBTN001	86	91	86	84	90	B/C
	Sg. Kalabakan	Sg. Kalabakan	5SKBK001	86	89	85	85	90	B/C
		Sg. Kalabakan	5SKBK002	85	85	84	84	86	B/C
		Sg. Kalabakan	5SKBK003	84	85	82	83	86	B/C
	Sg. Kalumpang	Sg. Kalumpang	5SKLP001	85	90	86	86	91	B/C
		Sg. Kalumpang	5SKLP002	84	92	86	90	88	B/C
		Sg. Kalumpang	5SKLP003	86	87	84	85	86	B/C
		Sg. Pang Burong 1	5SKLP004	87	89	83	86	86	B/C
	Sg. Kalumpang	Sg. Pang Burong 2	5SKLP005	74	76	69	85	80	ST/SP
	Sg. Kedamaian	Sg. Kedamaian	5SKDI004	92	93	90	93	92	B/C
		Sg. Tempasuk	5SKDI001	91	91	87	93	91	B/C
		Sg. Tempasuk	5SKDI002	92	93	91	92	92	B/C
		Sg. Wariu	5SKDI003	92	91	91	93	93	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sabah	Sg. Kimanis	Sg. Kimanis	5SKMA001	92	89	87	90	92	B/C
		Sg. Kinabatangan	Sg. Karamuak	91	92	91	92	92	B/C
			Sg. Kinabatangan	83	87	85	86	83	B/C
			Sg. Kinabatangan	82	88	82	84	85	B/C
			Sg. Kinabatangan	83	88	84	87	84	B/C
			Sg. Kinabatangan	84	90	86	85	83	B/C
			Sg. Koyah	85	88	87	89	88	B/C
			Sg. Leepang	84	88	84	85	84	B/C
			Sg. Menanggul	86	87	81	86	86	B/C
			Sg. Pin	86	85	86	87	86	B/C
			Sg. Takala	86	88	85	88	87	B/C
	Sg. Labok	Sg. Kinipir	5SLBK001	90	91	90	91	90	B/C
		Sg. Kinipir	5SLBK002	92	91	86	91	91	B/C
		Sg. Labok	5SLBK006	90	89	87	86	88	B/C
		Sg. Liwagu	5SLBK003	92	91	88	89	86	B/C
		Sg. Liwagu	5SLBK004	90	91	88	88	91	B/C
		Sg. Maliau	5SLBK005	91	93	92	94	93	B/C
		Sg. Tungud	5SLBK007	91	90	88	91	85	B/C
	Sg. Lakutan	Sg. Lakutan	5SLKT001	91	90	89	93	88	B/C
	Sg. Likas	Sg. Darau	5SLKS008	85	76	80	83	83	B/C
		Sg. Inanam	5SLKS001	83	77	79	81	80	ST/SP
		Sg. Inanam	5SLKS002	85	82	84	87	90	B/C
		Sg. Inanam	5SLKS003	92	93	92	93	93	B/C
		Sg. Likas	5SLKS004	75	70	77	73	78	ST/SP
		Sg. Likas	5SLKS005	77	85	78	77	80	ST/SP
		Sg. Menggatal	5SLKS006	86	85	81	87	89	B/C
		Sg. Menggatal	5SLKS007	93	91	87	91	92	B/C
	Sg. Lingkungan	Sg. Bukau	5SLKG002	91	90	88	92	87	B/C
		Sg. Lingkungan	5SLKG001	92	89	91	93	89	B/C
	Sg. Membakut	Sg. Membakut	5SMBT001	90	87	85	87	89	B/C
	Sg. Menggalong	Sg. Menggalong	5SMGL001	86	86	86	91	85	B/C
		Sg. Menggalong	5SMGL002	91	93	92	93	92	B/C
	Sg. Merotai	Sg. Merotai	5SMRT001	91	87	88	90	91	B/C
		Sg. Merotai	5SMRT002	91	89	92	94	92	B/C
		Sg. Merotai	5SMRT003	89	84	87	90	87	B/C
	Sg. Mounad	Sg. Mounad	5SMND001	87	86	85	89	88	B/C
		Sg. Mounad	5SMND002	87	88	86	86	89	B/C
	Sg. Moyog	Sg. Moyog	5SMYG001	91	90	86	88	91	B/C
		Sg. Moyog	5SMYG002	92	92	89	92	91	B/C
	Sg. Moyog	Sg. Moyog	5SMYG003	93	92	92	94	93	B/C
		Sg. Moyog	5SMYG004	92	93	92	94	92	B/C
	Sg. Padas	Sg. Bunsit	5SPDS001	91	92	91	93	92	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sabah	Sg. Padas	Sg. Liawan	5SPDS002	92	91	91	91	92	B/C
		Sg. Padas	5SPDS003	89	86	86	87	88	B/C
		Sg. Padas	5SPDS004	89	88	88	90	88	B/C
		Sg. Padas	5SPDS005	87	89	86	88	82	B/C
		Sg. Padas	5SPDS011	88	86	85	88	87	B/C
		Sg. Pangatan	5SPDS006	88	86	87	88	87	B/C
		Sg. Pegalan	5SPDS008	89	90	89	91	90	B/C
		Sg. Pegalan	5SPDS009	90	88	87	86	86	B/C
		Sg. Pegalan	5SPDS010	89	86	86	87	84	B/C
		Sg. Tandulu	5SPDS007	92	90	91	92	92	B/C
	Sg. Paitan	Sg. Paitan	5SPTN001	88	88	85	91	90	B/C
	Sg. Papar	Sg. Papar	5SPPR001	92	91	89	91	90	B/C
		Sg. Papar	5SPPR002	89	91	90	91	90	B/C
		Sg. Papar	5SPPR003	91	91	89	90	88	B/C
		Sg. Papar	5SPPR004	92	92	90	91	93	B/C
		Sg. Papar	5SPPR005	93	93	92	91	93	B/C
	Sg. Sapi	Sg. Sapi	5SSAP002	84	87	85	85	83	B/C
		Sg. Sapi	5SSAP003	84	86	86	86	84	B/C
		Sg. Sapi	5SSAP004	88	89	87	88	87	B/C
		Sg. Sualong	5SSAP001	89	91	92	92	93	B/C
	Sg. Segaliud	Sg. Segaliud	5SSLD001	82	87	86	85	81	B/C
		Sg. Segaliud	5SSLD002	82	87	87	86	84	B/C
	Sg. Segama	Sg. Segama	5SSGM001	86	91	86	87	86	B/C
		Sg. Segama	5SSGM002	84	91	85	88	87	B/C
		Sg. Segama	5SSGM003	86	91	85	88	87	B/C
	Sg. Sembulan	Sg. Sembulan	5SSBL001	73	81	84	81	74	ST/SP
		Sg. Sembulan	5SSBL002	74	73	74	80	69	ST/SP
	Sg. Silabukan	Sg. Silabukan	5SSBK001	87	89	86	87	83	B/C
		Sg. Silabukan	5SSBK002	91	90	89	91	91	B/C
	Sg. Sugut	Sg. Bongkud	5SSUG001	91	92	91	92	93	B/C
		Sg. Lohan	5SSUG002	91	92	91	92	93	B/C
		Sg. Merali	5SSUG003	88	92	88	91	90	B/C
		Sg. Sugut	5SSUG004	89	91	91	91	91	B/C
		Sg. Sugut	5SSUG005	91	91	88	92	91	B/C
		Sg. Sugut	5SSUG006	91	90	85	89	87	B/C
	Sg. Tawau	Sg. Tawau	5STWU001	78	83	77	83	78	ST/SP
		Sg. Tawau	5STWU002	87	85	83	88	88	B/C
		Sg. Tawau	5STWU003	91	92	91	93	92	B/C
		Sg. Tawau	5STWU004	93	92	91	93	93	B/C
	Sg. Telipok	Sg. Telipok	5STLP001	71	66	70	70	82	B/C
	Sg. Telipok	Sg. Telipok	5STLP002	88	88	90	90	91	B/C
	Sg. Tenghilan	Sg. Tenghilan	5STHL001	92	91	92	92	90	B/C



2 (b) : Status Kualiti Air Sungai mengikut Stesen, 2022
2 (b) : Water Quality Status by Stations, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	NILAI IKA / WQI VALUE					KATEGORI IKA (2022) / WQI CATEGORY (2022)
				2018	2019	2020	2021	2022	
Sabah	Sg. Tingkayu	Sg. Tingkayu	5STKY001	85	89	84	85	85	B/C
		Sg. Tingkayu	5STKY002	84	89	86	86	84	B/C
	Sg. Tuaran	Sg. Damit	5STUA001	87	88	89	87	88	B/C
		Sg. Damit	5STUA002	89	89	87	87	90	B/C
		Sg. Song Sai	5STUA003	90	91	90	92	92	B/C
		Sg. Tuaran	5STUA004	93	92	92	93	93	B/C
		Sg. Tuaran	5STUA005	94	93	92	93	93	B/C
	Sg. Tungku	Sg. Tungku	5STKU001	89	87	89	90	88	B/C
		Sg. Tungku	5STKU002	89	90	90	89	90	B/C
	Sg. Umas-Umas	Sg. Umas Umas	5SUSM001	81	90	83	84	89	B/C

2 (c) : Stesen Sungai Tercemar dan

Kelas Kualiti Air Berdasarkan Sub-Indeks BOD, AN dan SS, 2022

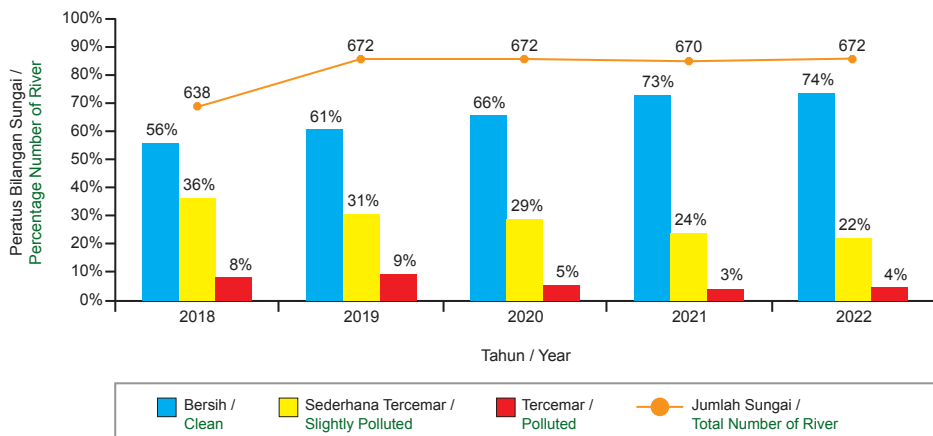
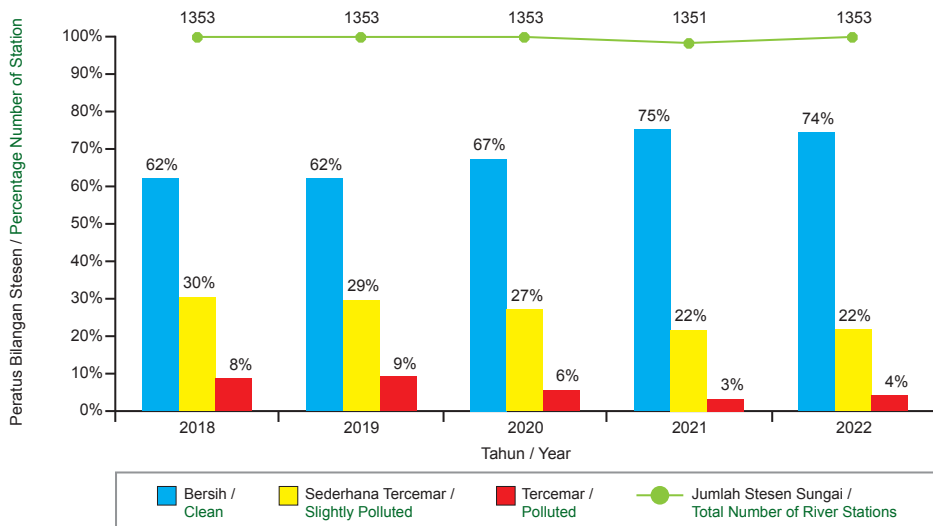
2 (c) : Polluted River Stations and Classes Based on BOD, AN and SS Sub-Index, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	2022			KELAS BERDASARKAN / CLASS BASED ON		
				IKA / WQI	KATEGORI / CATEGORY	KELAS / CLASS	BOD	AN	SS
Kedah	Sg. Merbok	Sg. Batu	1KMBK002	59	T/P	III	III	V	I
P. Pinang	Sg. Juru	Sg. Rambai	1PJRU005	56	T/P	III	IV	V	I
		Sg. Rambai	1PJRU007	55	T/P	III	IV	V	I
		Sg. Permatang Rawa	1PJRU008	55	T/P	III	III	III	I
		Sg. Jawi	1PJWI001	57	T/P	III	IV	V	II
	Sg. Jawi	Sg. Junjong	1PJWI002	57	T/P	III	IV	IV	II
		Sg. Chempedak	1PJWI003	36	T/P	IV	V	IV	III
		Sg. Junjong	1PJWI004	58	T/P	III	IV	IV	II
		Sg. Tengah	1PJWI005	47	T/P	IV	V	V	III
		Sg. Kluang	1PKLU001	52	T/P	III	IV	V	I
	Sg. Pinang	Sg. Dondang	1PPNG012	54	T/P	III	IV	IV	I
		Sg. Dondang	1PPNG013	58	T/P	III	IV	IV	I
		Sg. Pinang	1PPNG021	56	T/P	III	III	III	I
	Sg. Perai	Sg. Kereh	1PPRI006	57	T/P	III	IV	V	II
		Sg. Kereh	1PPRI008	56	T/P	III	IV	V	II
		Sg. Pertama	1PPRI022	52	T/P	III	IV	V	II
Perak	Sg. Raja Hitam	Sg. Raja Hitam	1ARHT008	30	T/P	V	II	IV	I
Selangor	Sg. Buloh	Sg. Buloh	2BBLH001	55	T/P	III	V	IV	II
		Sg. Buloh	2BBLH002	51	T/P	IV	V	IV	II
		Sg. Buloh	2BBLH003	46	T/P	IV	V	IV	II
		Sg. Buloh	2BBLH004	45	T/P	IV	V	IV	II



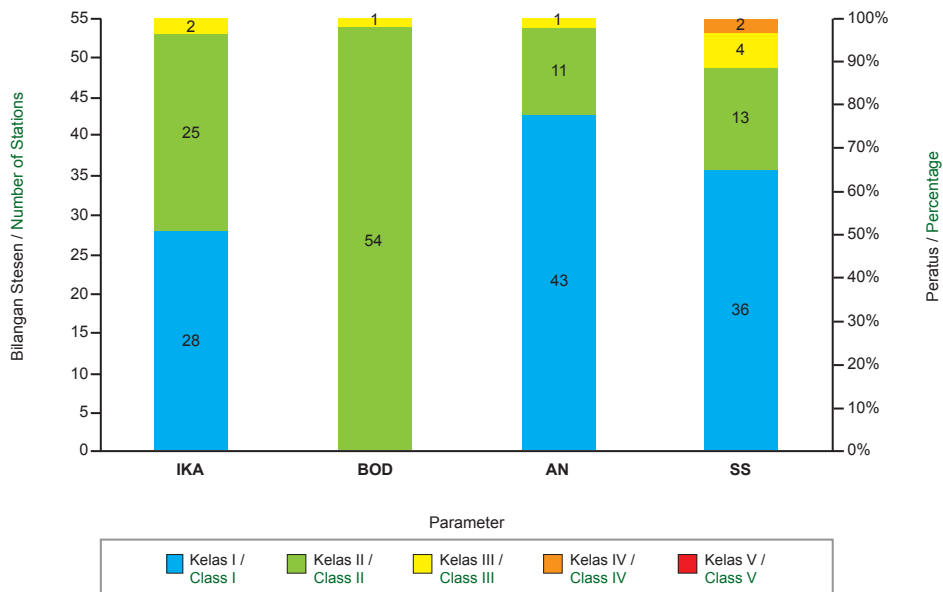
2 (c) : Stesen Sungai Tercemar dan Kelas Kualiti Air Berdasarkan Sub-Indeks BOD, AN dan SS, 2022
2 (c) : Polluted River Stations and Classes Based on BOD, AN and SS Sub-Index, 2022

NEGERI / STATE	LEMBANGAN / BASIN	SUNGAI / RIVER	NOMBOR STESEN / STATION NUMBER	2022			KELAS BERDASARKAN / CLASS BASED ON		
				IKA / WQI	KATEGORI / CATEGORY	KELAS / CLASS	BOD	AN	SS
Selangor	Sg. Buloh	Sg. Buloh	2BBLH006	50	T/P	IV	V	IV	II
	Sg. Klang	Sg. Kerayong	2BKLG013	50	T/P	IV	IV	V	I
W.P. Kuala Lumpur	Sg. Klang	Sg. Bunos	2WKLG006	44	T/P	IV	IV	IV	I
	Sg. Klang	Sg. Air Busuk	2WKLG041	52	T/P	III	V	V	II
	Sg. Klang	Sg. Kerayong	2WKLG058	58	T/P	III	IV	V	I
N. Sembilan	Sg. Langat	Sg. Pajam	3NLGT021	58	T/P	III	III	IV	II
Melaka	Sg. Merlimau	Sg. Merlimau	3MMLU001	57	T/P	III	III	V	I
		Sg. Merlimau	3MMLU002	51	T/P	IV	III	V	I
	Sg. Duyong	Sg. Punggur	3MPGR001	58	T/P	III	II	IV	II
		Sg. Punggur	3MPGR002	56	T/P	III	II	IV	II
Johor	Sg. Air Baloi	Sg. Air Baloi	3JABL001	55	T/P	III	II	I	III
		Sg. Air Baloi	3JABL002	56	T/P	III	II	I	III
	Sg. Batu Pahat	Sg. Simpang Kanan	3JBPT002	59	T/P	III	II	III	I
		Sg. Bekok	3JBPT008	58	T/P	III	II	II	I
		Sg. Simpang Kanan	3JBPT013	59	T/P	III	II	III	I
		Sg. Temehel	3JBPT024	59	T/P	III	III	IV	II
		Sg. Panchor	3JBPT025	59	T/P	III	II	III	I
		Sg. Johor	3JJHR007	56	T/P	III	II	III	I
	Sg. Kim-Kim	Sg. Kim-Kim	3JKIM001	57	T/P	III	II	III	I
	Sg. Kempas	Sg. Kempas	3JKPS001	39	T/P	IV	V	V	I
		Sg. Kempas	3JKPS002	43	T/P	IV	V	V	I
	Sg. Pontian Besar	Sg. Ayer Merah	3JPBS005	54	T/P	III	III	II	I
	Sg. Kaw. Pasir Gudang	Sg. Perembi	3JPGD001	59	T/P	III	IV	IV	I
		Sg. Buluh	3JPGD002	40	T/P	IV	V	II	I
		Sg. Tukang Batu	3JPGD003	34	T/P	IV	V	V	I
	Sg. Sanglang	Sg. Sanglang	3JSLG001	51	T/P	IV	III	I	III
	Sg. Tebrau	Sg. Tebrau	3JTRU001	57	T/P	III	IV	IV	II
		Sg. Tebrau	3JTRU002	54	T/P	III	IV	IV	II
		Sg. Pandan	3JTRU007	58	T/P	III	IV	V	I
		Sg. Bala	3JTRU008	55	T/P	III	IV	V	II
		Sg. Tampoi	3JTRU010	58	T/P	III	IV	V	I
		Sg. Sengkuang	3JTRU011	50	T/P	IV	V	V	I
		Sg. Alor B	4DPCH003	59	T/P	III	IV	V	I
Kelantan	Sg. Pengkalan Chepa	Sg. Alor B	4DPCH003	59	T/P	III	IV	V	I
		Sg. Alor B	4DPCH003	59	T/P	III	IV	V	I
Sarawak	Sg. Miri	Sg. Adong	6QMRI001	57	T/P	III	II	II	I
		Sg. Miri	6QMRI005	56	T/P	III	II	II	I

**2 (d) : Tren Kualiti Air Sungai, 2018-2022**
2 (d) : River Water Quality Trend, 2018-2022**2 (e) : Tren Stesen Kualiti Air Sungai, 2018-2022**
2 (e) : River Water Quality Stations Trend, 2018-2022



2 (f) : Kualiti Air Sungai di Stesen Hulu Muka Sauk, 2022
2 (f) : River Water Quality at Upstream Water Intake Stations, 2022

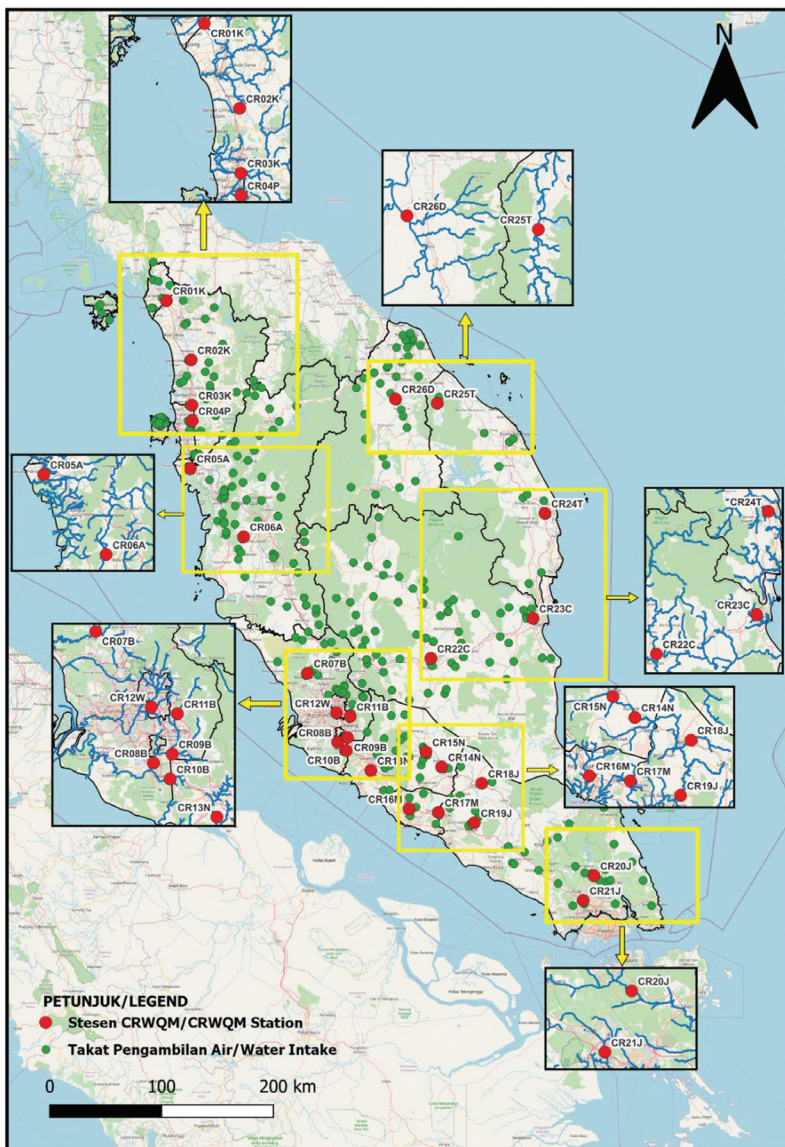


Sungai Tembeling



**2 (g) : Stesen Pengawasan Kualiti Air Sungai
Automatik dan Takat Pengambilan Air (Semenanjung Malaysia)**

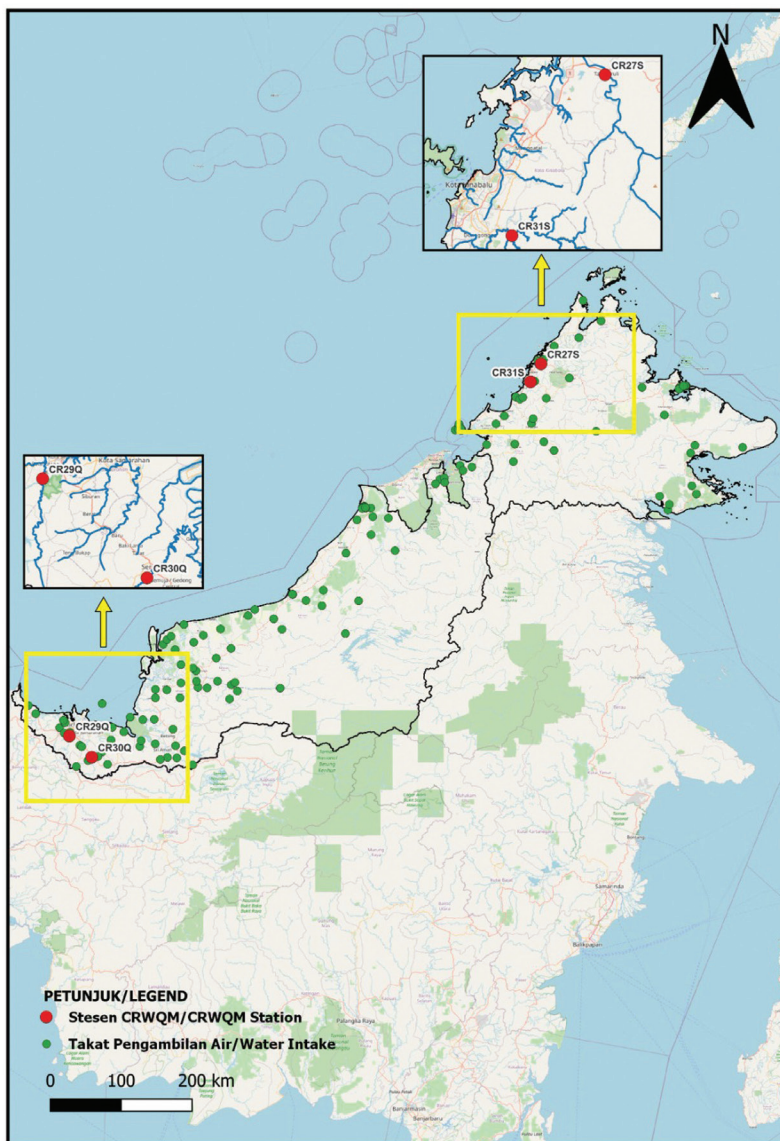
2 (g) : Continuous Water Quality Stations and Water Intakes (Peninsular Malaysia)





**2 (h) : Stesen Pengawasan Kualiti Air Sungai
Automatik dan Takat Pengambilan Air (Sabah dan Sarawak)**

2 (h) : Continuous Water Quality Stations and Water Intakes (Sabah and Sarawak)





KUALITI AIR MARIN

MARINE WATER QUALITY

PENGAWASAN KUALITI AIR MARIN MANUAL

MANUAL MARINE WATER QUALITY MONITORING (MMWQM)

29

PARAMETER
DIPANTAU / MONITORED



188

Stesen Pantai
Coastal Station

1128

Persampelan Stesen Pantai
Coastal Station Sampling

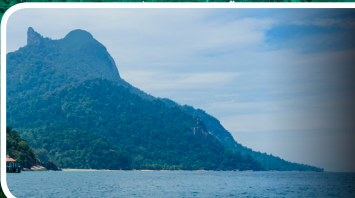


85

Stesen Muara Sungai
Estuary Station

510

Persampelan
Stesen Muara Sungai
Estuary Station Sampling



95

Stesen Pulau
Island Station

570

Persampelan Stesen Pulau
Island Station Sampling

PENGAWASAN KUALITI AIR MARIN AUTOMATIK

CONTINUOUS MARINE WATER QUALITY MONITORING (CMWQM)

10

STESEN AUTOMATIK
CONTINUOUS STATIONS

14

PARAMETER DIPANTAU
PARAMETER MONITORED



STESEN TERBAIK AIR MARIN EXCELLENT MARINE WATER STATION

Stesen Pantai / Coastal Station

BIL. NO.	NEGERI / STATE	LOKASI / LOCATION
1	Terengganu	Pantai Rantau Abang
2	Terengganu	Tanjung Bidara
3	Negeri Sembilan	Port Dickson Batu 10
4	Terengganu	Kelulut
5	Terengganu	Kuala Abang
6	Terengganu	Pantai Teluk Kalong
7	Terengganu	Pantai Kemasik
8	Negeri Sembilan	Pantai Seri Purnama
9	Terengganu	Tok Jembal
10	Terengganu	Teluk Ketapang

Stesen Muara Sungai / Estuary Station

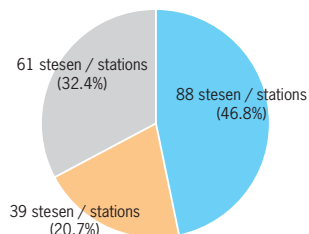
BIL. NO.	NEGERI / STATE	LOKASI / LOCATION
1	Terengganu	Tioxide Utara (Kg. Bukit Kuang, Kijal)
2	Terengganu	Tioxide Tengah (Pupuk Semangat, Kijal)
3	Terengganu	Tioxide Selatan (KSB, T. Kalong)
4	Johor	Kuala Sungai Johor
5	Pahang	Kuala Nenas
6	Selangor	Kuala Sungai Sepang (Kawalan)
7	Sarawak	Kuala Sungai Santubong

Stesen Pulau / Island Station

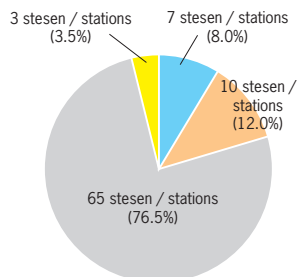
BIL. NO.	NEGERI / STATE	LOKASI / LOCATION
1	Johor	Babi Tengah
2	Kedah	Dangli
3	Pahang	Labas
4	Pahang	Cebah
5	Pahang	Sembilang
6	Terengganu	Redang (Selatan / South)
7	Terengganu	Lang Tengah
8	Terengganu	Ekor Tebu
9	Terengganu	Lima
10	Terengganu	Kapas

STATUS KUALITI AIR MARIN MARINE WATER QUALITY STATUS

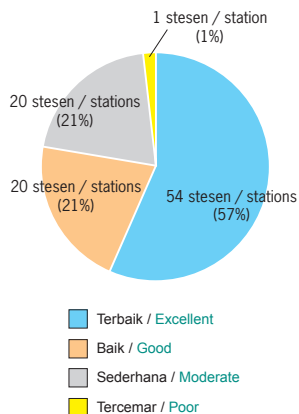
Stesen Pantai / Coastal Station



Stesen Muara Sungai / Estuary Station



Stesen Pulau / Island Station



**3 (a) : Parameter Kualiti Air Marin, 2022**
3 (a) : Marine Water Quality Parameters, 2022

BIL./ NO.	PARAMETER/ PARAMETERS	KOD/ CODE	UNIT/ UNIT
PENGUKURAN IN-SITU / IN-SITU MEASUREMENTS			
1.	Oksigen Terlarut / Dissolved Oxygen	DO	mg/l
2.	pH	pH	-
3.	Kemasinan / Salinity	Sal	ppt
4.	Suhu / Temperature	Temp	°C
5.	Kekeruhan / Turbidity	Turb	NTU
6.	Konduktiviti / Conductivity	Cond	mS/cm
PENGUKURAN MAKMAL / LABORATORY MEASUREMENTS			
1.	Jumlah Pepejal Terampai / Total Suspended Solid	TSS	mg/l
2.	Minyak dan Gris / Oil and Grease	O&G	mg/l
3.	Bebola Tar / Tarball	Tar	g/100m
4.	Merkuri / Mercury	Hg	µg/l
5.	Kadmium / Cadmium	Cd	µg/l
6.	Kromium (VI) / Chromium (VI)	Cr ₆₊	µg/l
7.	Kuprum / Copper	Cu	µg/l
8.	Arsenik / Arsenic	As	µg/l
9.	Plumbum / Lead	Pb	µg/l
10.	Zink / Zinc	Zn	µg/l
11.	Sianida / Cyanide	CN	µg/l
12.	Ammonia Tidak Terion / Unionized Ammonia	NH ₃	µg/l
13.	Amoniakal Nitrogen / Ammoniacal Nitrogen	NH ₃ -N	µg/l
14.	Nitrit / Nitrite	NO ₂	µg/l
15.	Nitrat / Nitrate	NO ₃	µg/l
16.	Fosfat / Phosphate	PO ₄	µg/l
17.	Fenol / Phenol	Phenol	µg/l
18.	Tributiltin / Tributyltin	TBT	µg/l
19.	Total Coliform	TC	cfu/100ml
20.	Faecal Coliform	FC	cfu/100ml
21.	Escherichia coli	E. coli	cfu/100ml
22.	Enterococci	-	cfu/100ml
23.	Polycyclic Aromatic Hydrocarbons	PAHs	µg/l



3 (b) : Standard Kualiti Air Marin Malaysia 3 (b) : Malaysian Marine Water Quality Standards

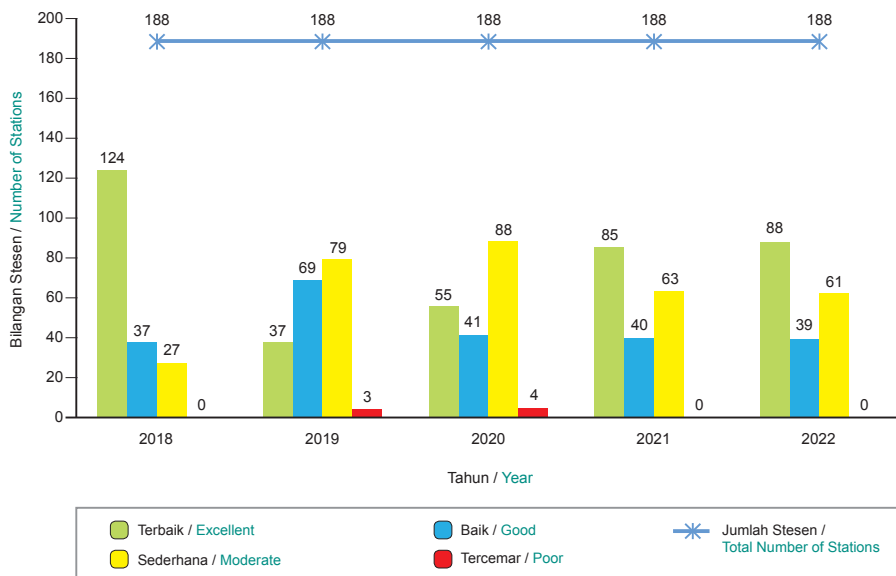
PARAMETER (µg/l) melainkan dinyatakan sebaliknya / PARAMETERS (µg/l) unless otherwise stated	KLASIFIKASI / CLASSIFICATION					
	KELAS 1 / CLASS 1	KELAS 2 / CLASS 2	KELAS 3 / CLASS 3	INTERIM KELAS E1 / INTERIM CLASS E1	INTERIM KELAS E2 / INTERIM CLASS E2	INTERIM KELAS E3 / INTERIM CLASS E3
	Habitat Marin Sensitif / Sensitive Marine Habitats	Perikanan (Termasuk Marikultur) / Fisheries (including Mariculture)	Industri, Aktiviti Komersial & Kawasan Kediaman Pesisir Pantai / Industrial, Commercial Activities & Coastal Settlements	Muara Sungai / Estuaries		
				Dataran Pantai / Coastal Plain	Lagun / Lagoon	Rangkaian Kompleks / Complex Distributary Network
Oksigen Terlarut / Dissolved Oxygen (mg/l)	>6.0	>5.0	>3.0	>5.0	>5.0	>5.0
Jumlah Pepejal Terampai / Total Suspended Solids (mg/l)	25.0	50.0	100.0	30.0	30.0	30.0
Fosfat / Phosphate	5.0	75.0	670.0	100.0	180.0	180.0
Nitrat / Nitrate	10.0	60.0	700.0	200.0	570.0	430.0
Ammonia	35.0	50.0	320.0	5.0	10.0	10.0
Merkuri / Mercury	0.04	0.04	0.04	0.04	0.04	0.04
Kadmium / Cadmium	0.50	2.00	3.00	1.00	1.00	1.00
Kromium (VI) / Chromium (VI)	0.14	10.00	20.00	10.00	10.00	10.00
Kuprum / Copper	1.30	2.90	8.00	1.00	1.00	1.00
Sianida / Cyanide	2.00	7.00	14.00	5.00	5.00	5.00
Plumbum / Lead	2.20	8.50	12.00	1.30	2.00	2.00
Zink / Zinc	7.00	50.00	100.00	16.00	5.00	5.00
Arsenik (III) / Arsenic (III)	1.00	3.00	3.00	3.00	1.00	1.00
Aluminium	27.00	27.00	55.00	27.00	27.00	27.00
Tributyltin (TBT)	0.001	0.010	0.050	0.002	0.002	0.002
Polycyclic Aromatic Hydrocarbons (PAHs)	100.0	200.0	1000.0	5.0	5.0	5.0
Jumlah Fenol / Total Phenol	1.0	10.0	100.0	10.0	10.0	10.0
Minyak & Gris / Oil & Grease (mg/l)	0.01	0.14	5.00	1.00	1.00	1.00
Faecal Coliform (cfu/100ml)	70	70	70	70	70	70
Suhu / Temperature (°C)	≤ 2 °C bertambah melebihi ambien maksimum / ≤ 2 °C increase over maximum ambient					
pH	6.5 - 9.0					
Marine Litter	Bebas dari marine litter / Free from marine litter					



3 (c) : Klasifikasi Indeks Kualiti Air Marin Malaysia (IKAMM) 3 (c) : Malaysian Marine Water Quality Index (MMWQI) Classification

KATEGORI / CATEGORY	NILAI INDEKS/ INDEX VALUE
Terbaik / Excellent	90 - 100
Baik / Good	80 - <90
Sederhana / Moderate	50 - <80
Tercemar / Poor	0 - <50

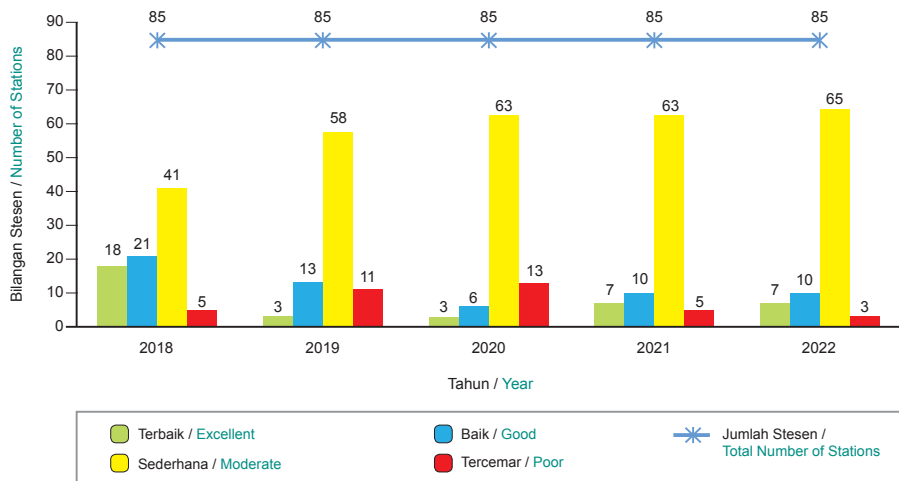
3 (d) : Tren Status Kualiti Air Marin bagi Kawasan Pantai, 2018-2022 3 (d) : The Marine Water Quality Status Trend for Coastal Area, 2018-2022





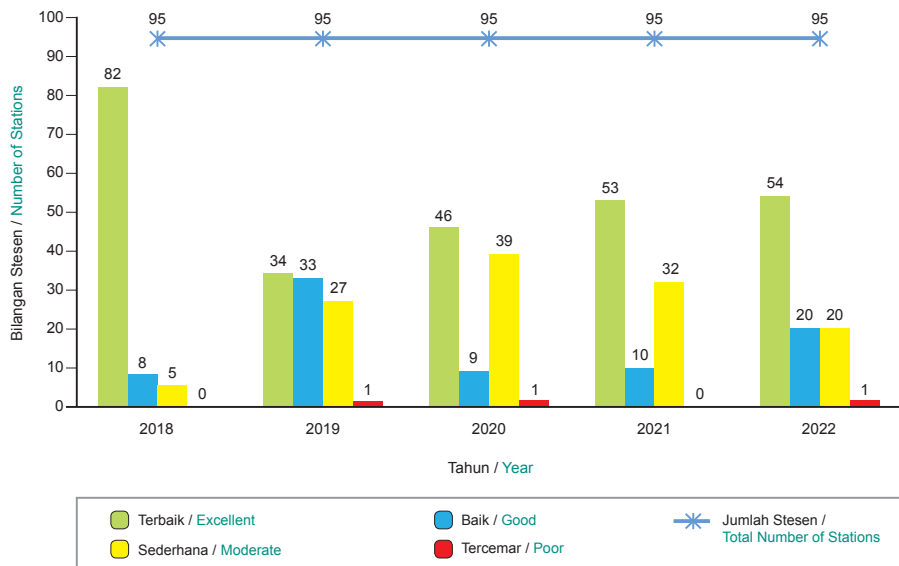
3 (e) : Tren Status Kualiti Air Marin bagi Muara Sungai, 2018-2022

3 (e) : The Marine Water Quality Status Trend for Estuary, 2018-2022



3 (f) : Tren Status Kualiti Air Marin bagi Pulau, 2018-2022

3 (f) : The Trend of Marine Water Quality Status for Island, 2018-2022





3 (g) : Senarai Stesen Pengawasan Kualiti Air Marin
dengan Status Kategori Tercemar dan Peratusan Sub-Indeks mengikut Parameter, 2022
3 (g) : List of Marine Water Quality Monitoring Stations under the Category of Poor Status
and their Sub-Index Percentages by Parameter, 2022

NEGERI / STATE	KLASIFIKASI STESEN / STATION CLASSIFICATION	LOKASI / LOCATION	STESEN ID / ID STATION	IKAMM / MMWQI	PERATUSAN SUB-INDEXES (%) / SUB-INDEX PERCENTAGE (%)					
					AMMONIA (TIDAK TERION) / AMMONIA (UNIONIZED)	FAECAL COLIFORM	JUMLAH PEPEJAL TERAMPAL / TOTAL SUSPENDED SOLID	NITRAT / NITRATE	FOSFAT / PHOSPHATE	
Selangor	Muara Sungai / Estuary	Kuala Sungai Klang	MMBE005	43	95	8	88	76	72	
	Muara Sungai / Estuary	Kuala Sungai Tenggi	MMBE009	48	98	8	62	70	82	
	Pulau / Island	Lumut	MMBR003	47	94	23	89	89	73	
Johor	Muara Sungai / Estuary	Kuala Sungai Segget	MMJE001	46	88	8	93	50	50	

**3 (h) : Senarai Stesen Pantai dengan Status Kategori Terbaik, 2022****3 (h) : Coastal Stations under the Category of Excellent Status, 2022**

BIL. / NO.	NEGERI / STATE	LOKASI / LOCATION
1	Terengganu	Pantai Rantau Abang
2	Terengganu	Tanjung Bidara
3	N. Sembilan	Port Dickson Batu 10
4	Terengganu	Kelulut
5	Terengganu	Kuala Abang
6	Terengganu	Pantai Teluk Kalong
7	Terengganu	Pantai Kemasik
8	N. Sembilan	Pantai Seri Purnama
9	Terengganu	Tok Jembal
10	Terengganu	Teluk Ketapang

Nota / Notes: Senarai menunjukkan sepuluh (10) stesen teratas dengan status kategori terbaik /
The list shows the top ten (10) stations in the excellent category

3 (i) : Senarai Stesen Pulau dengan Status Kategori Terbaik, 2022**3 (i) : Island Stations under the Category of Excellent Status, 2022**

BIL. / NO.	NEGERI / STATE	LOKASI / LOCATION
1	Johor	Babi Tengah
2	Kedah	Dangli
3	Pahang	Labas
4	Pahang	Cebah
5	Pahang	Sembilang
6	Terengganu	Redang (Selatan / South)
7	Terengganu	Lang Tengah
8	Terengganu	Ekor Tebu
9	Terengganu	Lima
10	Terengganu	Kapas

Nota / Notes: Senarai menunjukkan sepuluh (10) stesen teratas dengan status kategori terbaik /
The list shows the top ten (10) stations in the excellent category

3 (j) : Senarai Stesen Muara Sungai dengan Status Kategori Terbaik, 2022**3 (j) : Estuaries Stations under the Category of Excellent Status, 2022**

BIL. / NO.	NEGERI / STATE	LOKASI / LOCATION
1	Terengganu	Tioxide Utara (Kg. Bukit Kuang, Kijal)
2	Terengganu	Tioxide Tengah (Pupuk Semangat, Kijal)
3	Terengganu	Tioxide Selatan (KSB, T. Kalong)
4	Johor	Kuala Sungai Johor
5	Pahang	Kuala Nenasi
6	Selangor	Kuala Sungai Sepang (Kawalan)
7	Sarawak	Kuala Sungai Santubong



PENGAWASAN KUALITI AIR TANAH

GROUNDWATER QUALITY MONITORING

120

Stesen di Seluruh Negara
Stations (Wells) Nationwide

12

Jenis Guna Tanah
Land Use Category

KAWASAN PERTANIAN

AGRICULTURAL AREA

3
8
3

Sangat Baik /
Excellent
Baik /
Good
Sederhana /
Moderate



406

Bilangan
Sampel Air Tanah dianalisa
Number of Groundwater
Samples Analysed

BEKAS TAPAK PELUPUSAN SAMPAH

USED SOLID WASTE LANDFILL

0
15
6

Sangat Baik /
Excellent
Baik /
Good
Sederhana /
Moderate



AKUAKULTUR

AQUACULTURE

0
5
2

Sangat Baik /
Excellent
Baik /
Good
Sederhana /
Moderate



BEKAS LOMBONG EMAS

USED GOLD MINES

0
3
0

Sangat Baik /
Excellent
Baik /
Good
Sederhana /
Moderate



BANDAR & PINGGIR BANDAR

URBAN & SUBURBAN AREA

0
10
2

Sangat Baik /
Excellent
Baik /
Good
Sederhana /
Moderate





PADANG GOLF
GOLF COURSES



0 Sangat Baik / *Excellent*
5 Baik / *Good*
1 Sederhana / *Moderate*

BEKALAN AIR
WATER SUPPLY



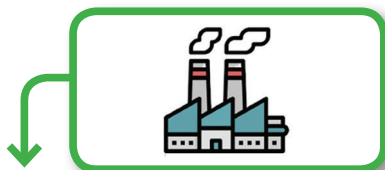
0 Sangat Baik / *Excellent*
4 Baik / *Good*
0 Sederhana / *Moderate*

KAWASAN PERANGINAN
RESORTS



0 Sangat Baik / *Excellent*
1 Baik / *Good*
1 Sederhana / *Moderate*

TAPAK PERINDUSTRIAN
INDUSTRIAL SITES



1 Sangat Baik / *Excellent*
9 Baik / *Good*
11 Sederhana / *Moderate*

LUAR BANDAR
RURAL



0 Sangat Baik / *Excellent*
4 Baik / *Good*
1 Sederhana / *Moderate*

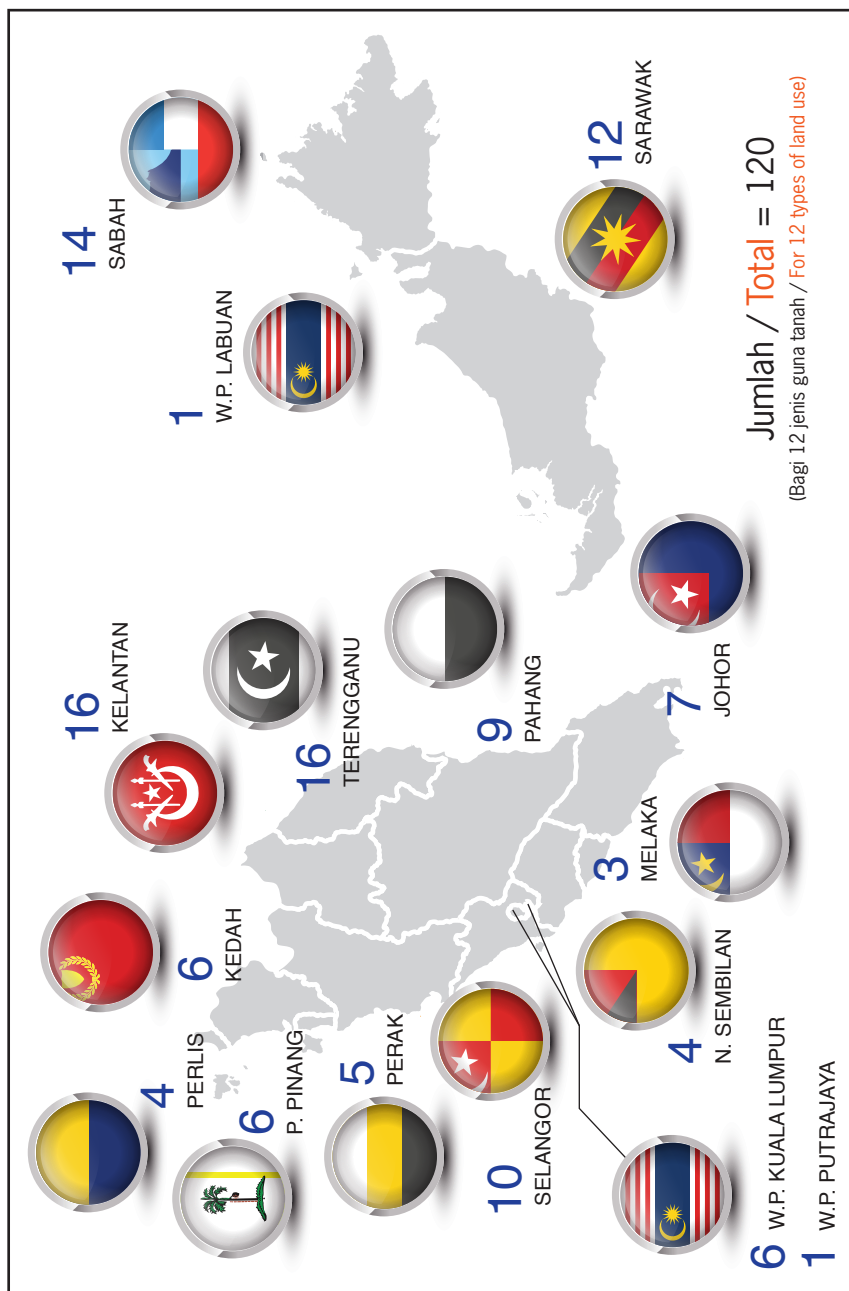
**BEKAS TAPAK PELUPUSAN
BANGKAI HAIWAN**
USED ANIMAL BURIAL SITES



0 Sangat Baik / *Excellent*
10 Baik / *Good*
4 Sederhana / *Moderate*



Jumlah Telaga Pengawasan bagi Setiap Negeri Seluruh Malaysia, 2022
Total Number of Monitoring Wells for Each State of Malaysia, 2022





4 (a) : Taburan Stesen Pengawasan

Kualiti Air Tanah di Malaysia Mengikut Jenis Kategori Guna Tanah, 2022

4 (a) : Distribution of Groundwater Quality Monitoring Stations (Wells) Throughout the States in Malaysia based on Land Use Category, 2022

KATEGORI / CATEGORY	BILANGAN TELAGA / NUMBER OF WELLS	NEGERI / STATE	BILANGAN TELAGA / NUMBER OF WELLS
Kawasan Pertanian / Agricultural Area	15	Sabah	2
		Terengganu	5
		Pahang	1
		Kedah	3
		Perlis	1
		Kelantan	2
		Selangor	1
Bandar & Pinggir Bandar / Urban & Suburban Area	12	Sabah	1
		Terengganu	2
		Pahang	1
		Kedah	1
		Perlis	2
		Kelantan	2
		Selangor	2
		W.P. Putrajaya	1
Tapak Perindustrian / Industrial Sites	22	W.P. Labuan	1
		Terengganu	5
		Johor	2
		Kedah	1
		Kelantan	2
		Melaka	1
		Selangor	3
		P. Pinang	3
		N. Sembilan	1
		Perak	1
		Pahang	1
		Perlis	1



4 (a) : Taburan Stesen Pengawasan
Kualiti Air Tanah di Malaysia Mengikut Jenis Kategori Guna Tanah, 2022
4 (a) : Distribution of Groundwater Quality Monitoring Stations (Wells)
Throughout the States in Malaysia based on Land Use Category, 2022

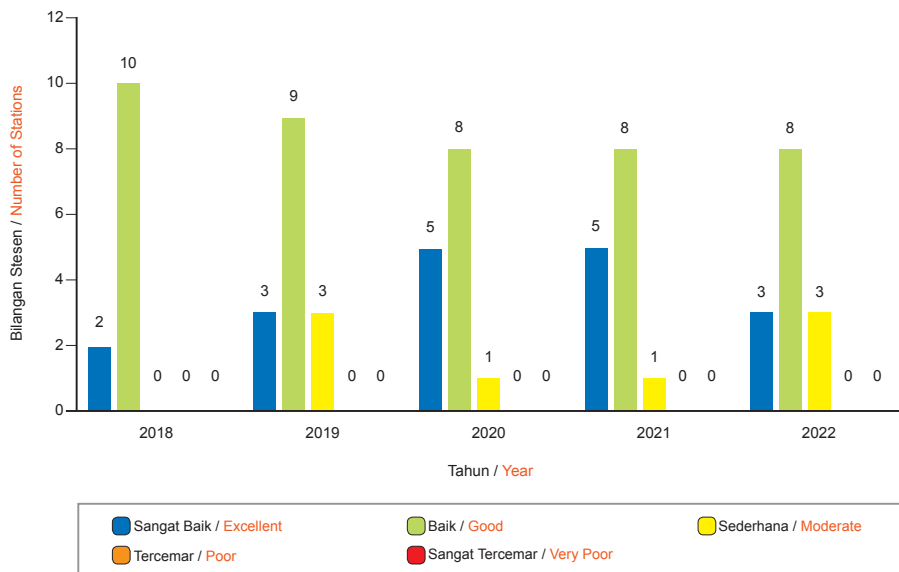
KATEGORI / CATEGORY	BILANGAN TELAGA / NUMBER OF WELLS	NEGERI / STATE	BILANGAN TELAGA / NUMBER OF WELLS
Bekas Tapak Pelupusan Sampah / Used Solid Waste Landfill	26	Sabah	7
		Sarawak	2
		Terengganu	2
		Johor	2
		Kelantan	3
		Perak	1
		W.P. Kuala Lumpur	5
		N. Sembilan	3
		Melaka	1
Padang Golf / Golf Courses	7	Sabah	2
		Kelantan	4
		W.P. Kuala Lumpur	1
Luar Bandar / Rural	6	Terengganu	1
		Kelantan	3
		Melaka	1
		Selangor	1
Bekas Lombong Emas / Used Gold Mines	3	Sarawak	3
Bekalan Air / Water Supply	5	Sabah	1
		Sarawak	4
Bekas Tapak Pelupusan Bangkai Haiwan / Used Animal Burial Sites	14	Sarawak	2
		Johor	3
		Perak	3
		Selangor	3
		P. Pinang	3
Akuakultur / Aquaculture	7	Pahang	6
		Terengganu	1
Tapak Pelupusan Radioaktif / Radioactive Landfills	1	Perak	1
Kawasan Peranginan / Resorts	2	Sabah	1
		Kedah	1
Jumlah / Total			120



4 (b) : Klasifikasi Indeks Kualiti Air Tanah 4 (b) : Groundwater Quality Index Classification

KATEGORI / CATEGORY	IKAT / GWQI	POTENSI KEGUNAAN / POTENTIAL USE
Sangat Tercemar / Very Poor	0-15	Kajian air terperinci sebelum digunakan / Investigation needed before use
Tercemar / Poor	16-39	Pengairan / Pertanian / Irrigation
Sederhana / Moderate	40-69	Penggunaan Industri / Industrial Use
Baik / Good	70-89	Berpontensi sebagai air minuman / Potential use as drinking water
Sangat Baik / Excellent	>90	Air berkualiti untuk semua kegunaan / High quality water for all purpose

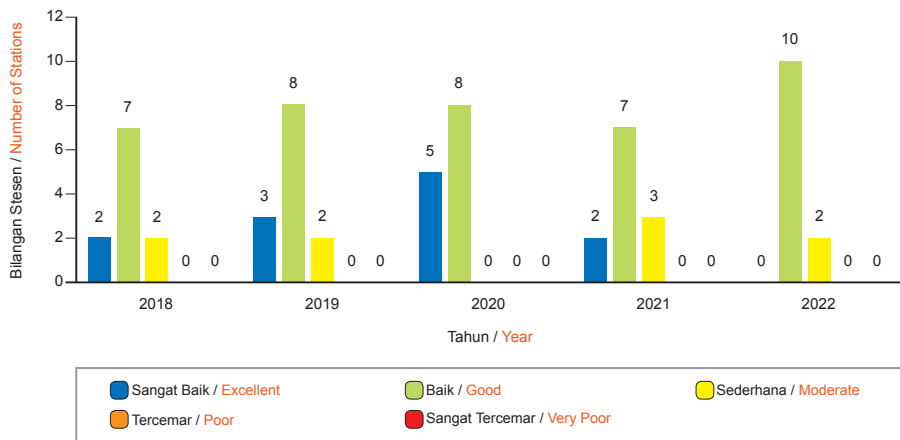
4 (c) : Tren Indeks Kualiti Air Tanah Kawasan Pertanian (2018-2022) 4 (c) : Trends of Groundwater Quality Index for Agriculture (2018-2022)





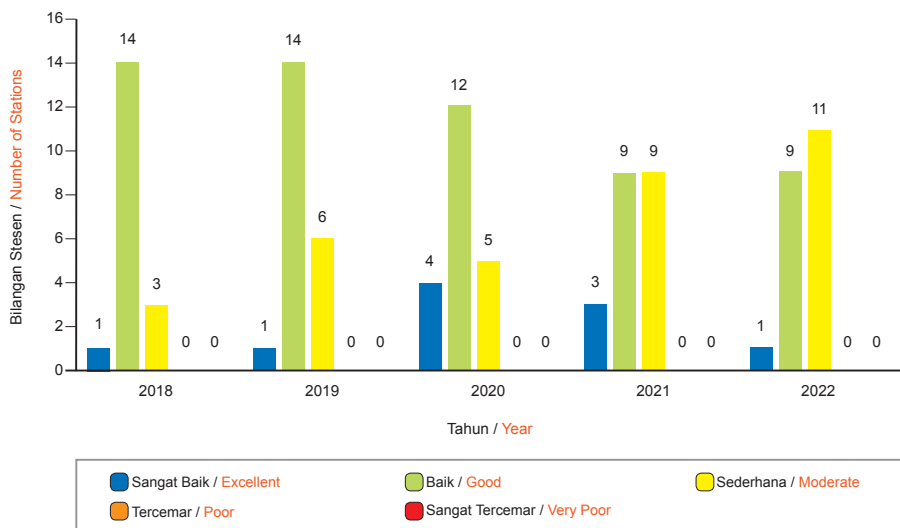
4 (d) : Tren Indeks Kualiti Air Tanah Bandar dan Pinggir Bandar (2018-2022)

4 (d) : Trends of Groundwater Quality Index for Urban and Suburban (2018-2022)



4 (e) : Tren Indeks Kualiti Air Tanah bagi Tapak Perindustrian (2018-2022)

4 (e) : Trends of Groundwater Quality Index for Industrial Sites (2018-2022)

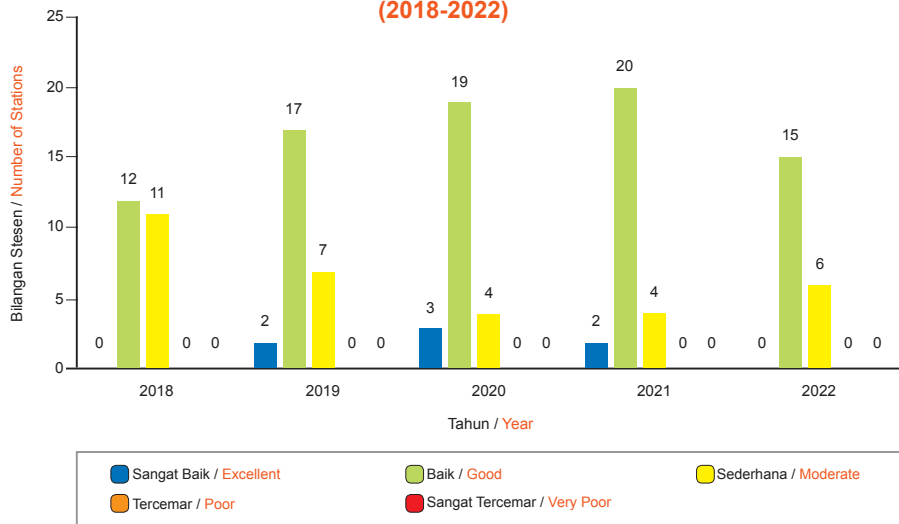




4 (f) : Tren Indeks Kualiti

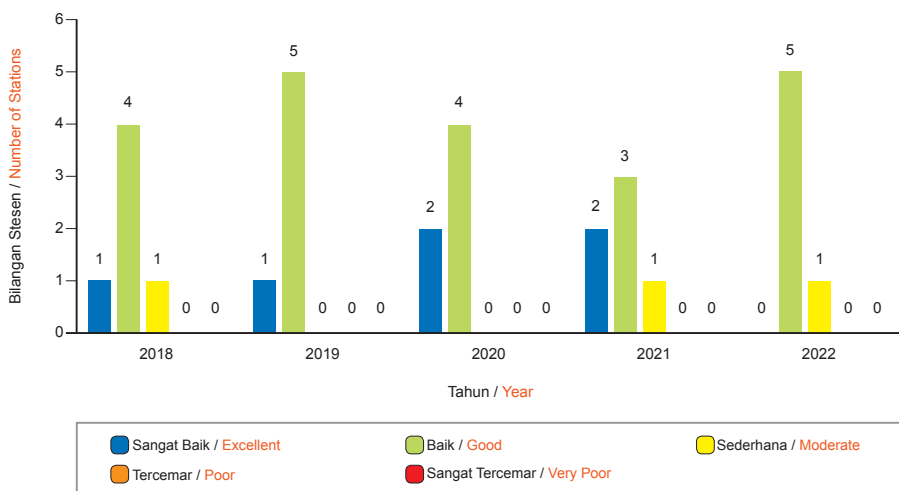
Air Tanah bagi Bekas Tapak Pelupusan Sampah (2018-2022)

4 (f) : Trends of Groundwater Quality Index for Used Solid Waste Landfills (2018-2022)



4 (g) : Tren Indeks Kualiti Air Tanah bagi Padang Golf (2018-2022)

4 (g) : Trends of Groundwater Quality Index for Golf Course (2018-2022)





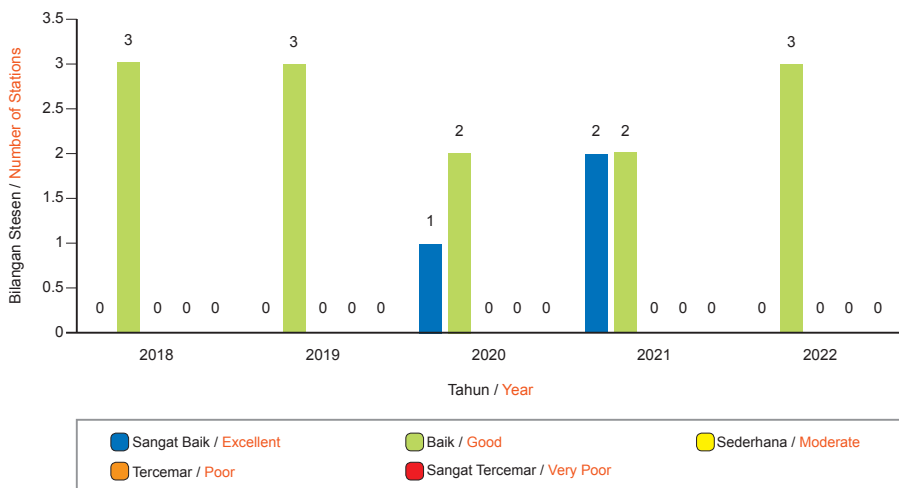
4 (h) : Tren Indeks Kualiti Air Tanah bagi Luar Bandar (2018-2022)

4 (h) : Trends of Groundwater Quality Index for Rural (2018-2022)



4 (i) : Tren Indeks Kualiti Air Tanah bagi Bekas Lombong Emas (2018-2022)

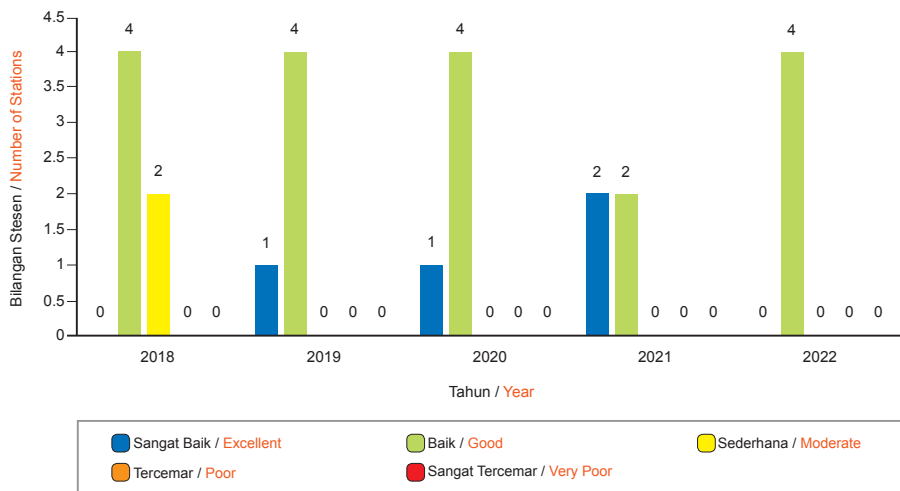
4 (i) : Trends of Groundwater Quality Index for Used Gold Mine (2018-2022)





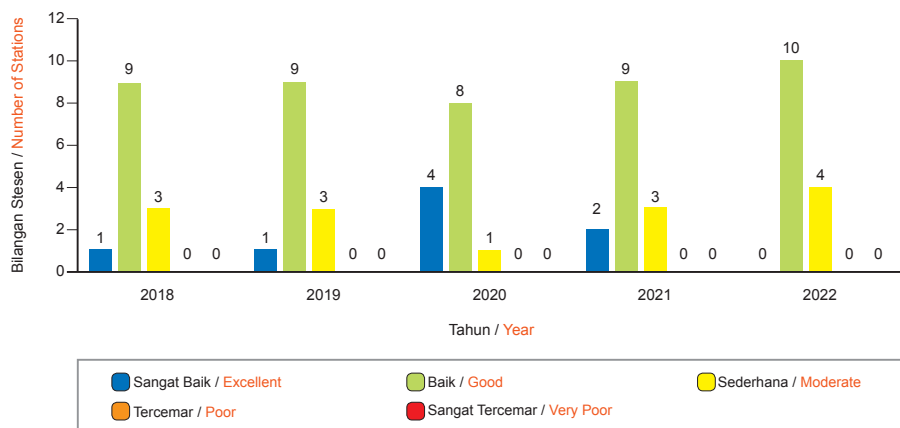
4 (j) : Tren Indeks Kualiti Air Tanah bagi Bekalan Air (2018-2022)

4 (j) : Trends of Groundwater Quality Index for Water Supply (2018-2022)



**4 (k) : Tren Indeks Kualiti Air Tanah bagi
Bekas Tapak Pelupusan Bangkai Haiwan (2018-2022)**

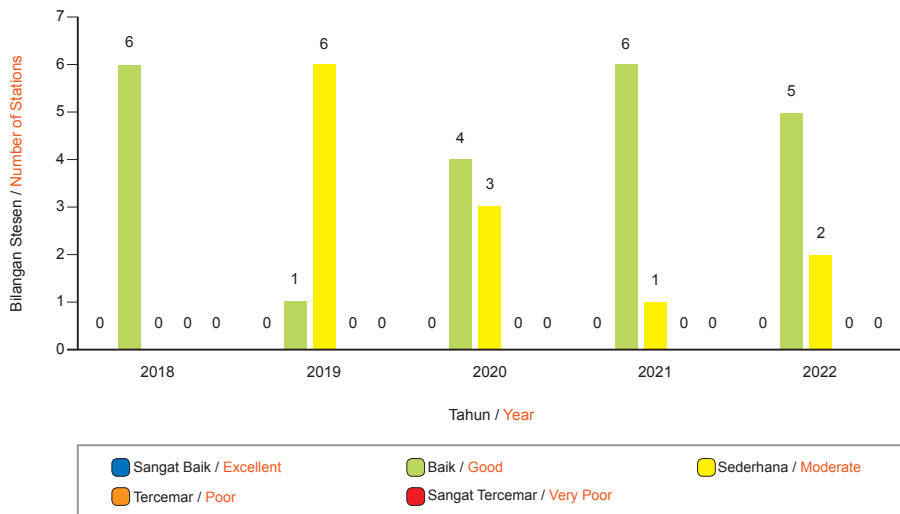
**4 (k) : Trends of Groundwater Quality Index for
Used Animal Burial Sites (2018-2022)**





4 (l) : Tren Indeks Kualiti Air Tanah bagi Akuakultur (2018-2022)

4 (l) : Trends of Groundwater Quality Index for Aquaculture (2018-2022)



4 (m) : Tren Indeks Kualiti Air Tanah bagi Kawasan Peranginan (2018-2022)

4 (m) : Trends of Groundwater Quality Index for Resorts (2018-2022)





**4 (n) : Standard Kualiti Air Tanah bagi
Rawatan Air Mentah Secara Konvensional (Air Minuman)**

**Merujuk kepada Parameter Utama dalam Penilaian Status Kualiti Air Tanah
4 (n) : Groundwater Quality Standards for Conventional Treatment of Raw Water
(Drinking Water) with Reference to Significant Parameters
in Assessing Groundwater Quality Status**

PARAMETER / PARAMETER	SIMBOL / SYMBOL	STANDARD / STANDARD	UNIT / UNIT
Koliform / Total coliform	–	5000	MPN/100 ml
Pepejal Terlarut / TDS	–	1500	mg/l
Klorida / Chloride	Cl	250	mg/l
Besi / Iron	Fe	1.0	mg/l
Keliatan / Hardness	CaCO ₃	500	mg/l
Mangan / Manganese	Mn	0.2	mg/l
Nitrit / Nitrate	NO ₃	0.4 [#]	mg/l
Raksa / Mercury	Hg	0.001	mg/l
Kadmium / Cadmium	Cd	0.003	mg/l
Arsenik / Arsenic	As	0.01	mg/l
Plumbum / Lead	Pb	0,05	mg/l
Kromium / Chromium	Cr	0.05	mg/l
Kuprum / Copper	Cu	1.0	mg/l
Zink / Zinc	Zn	3.0	mg/l
Sulfat / Sulphate	SO ₄ ⁻	250	mg/l
Selenium / Selenium	Se	0.01	mg/l
Sebatian Fenol / Phenolics	–	0.002	mg/l

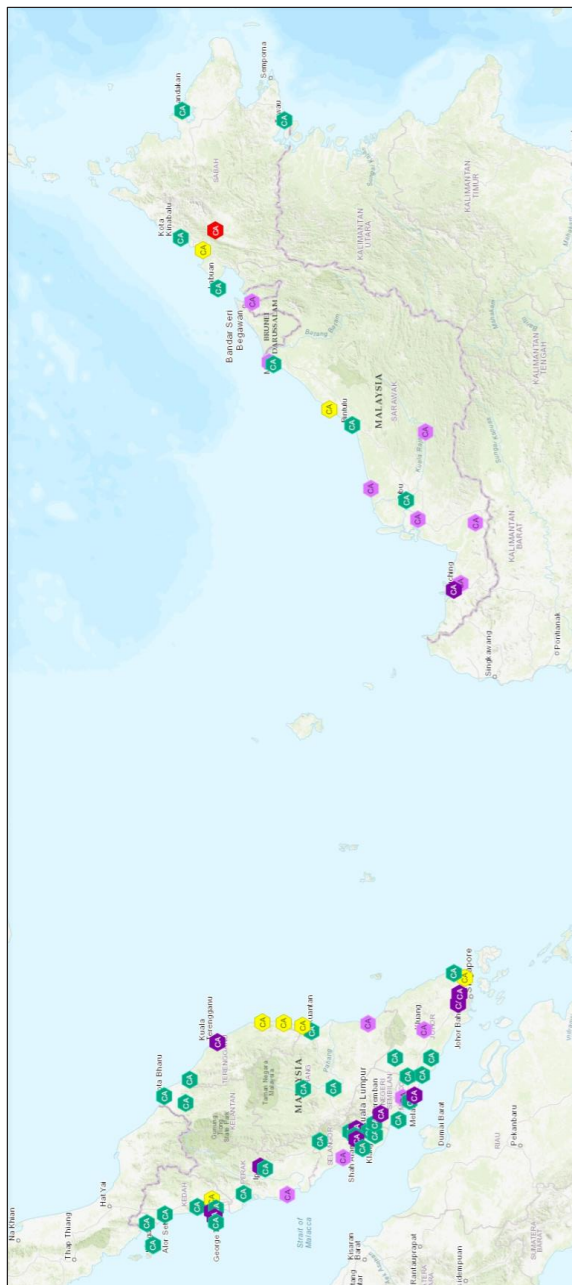
4 (o) : Peratusan Julat Nilai Pemuhan, 2022

4 (o) : Percentage Of Compliance, 2022

PERATUSAN JULAT NILAI PEMATUHAN (%) / PERCENTAGE OF COMPLIANCE (%)	KATEGORI / CATEGORY
0% - 49%	Rendah / Low
50% - 79%	Sederhana / Moderate
80% - 100%	Tinggi / High

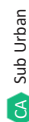


5 (a) : Taburan Lokasi Stesen Automatik bagi Pengawasan Kualiti Udara, 2022
5 (a) : Distribution of the Locations for Air Quality Monitoring Automatic Stations, 2022



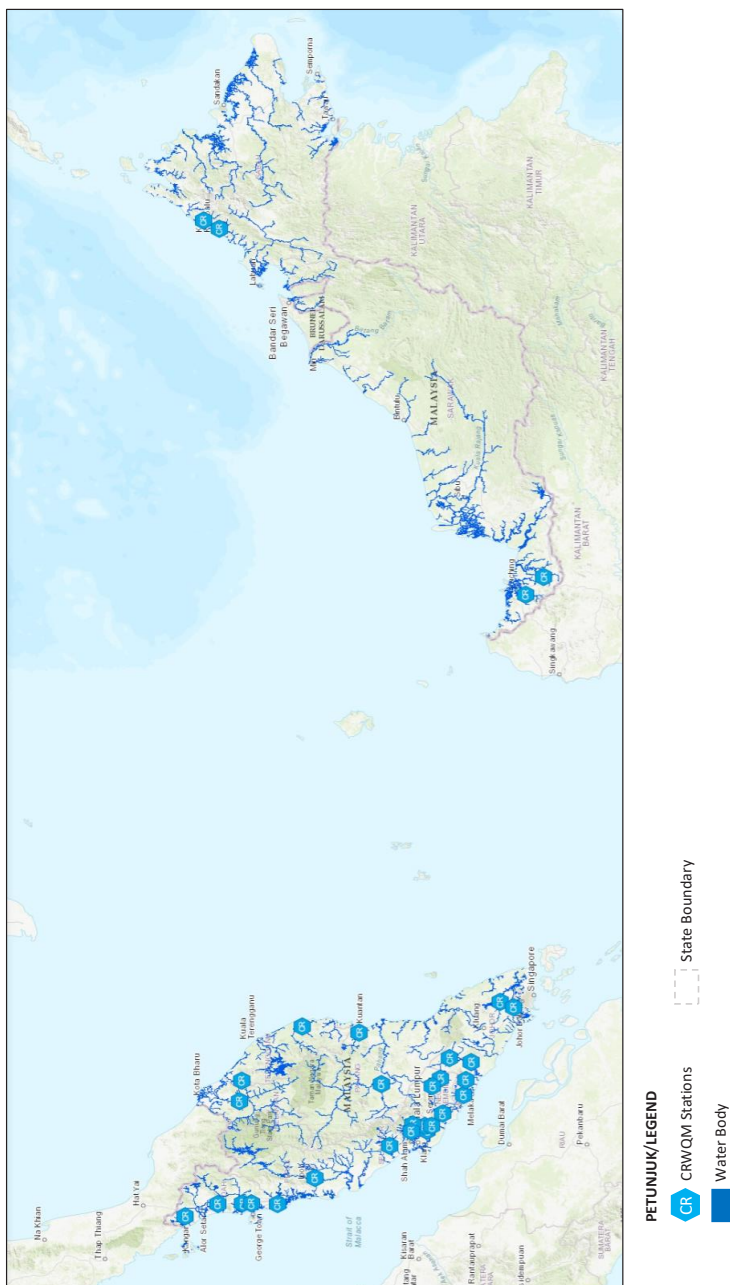
PETUNJUK/LEGEND

CAQM Stations



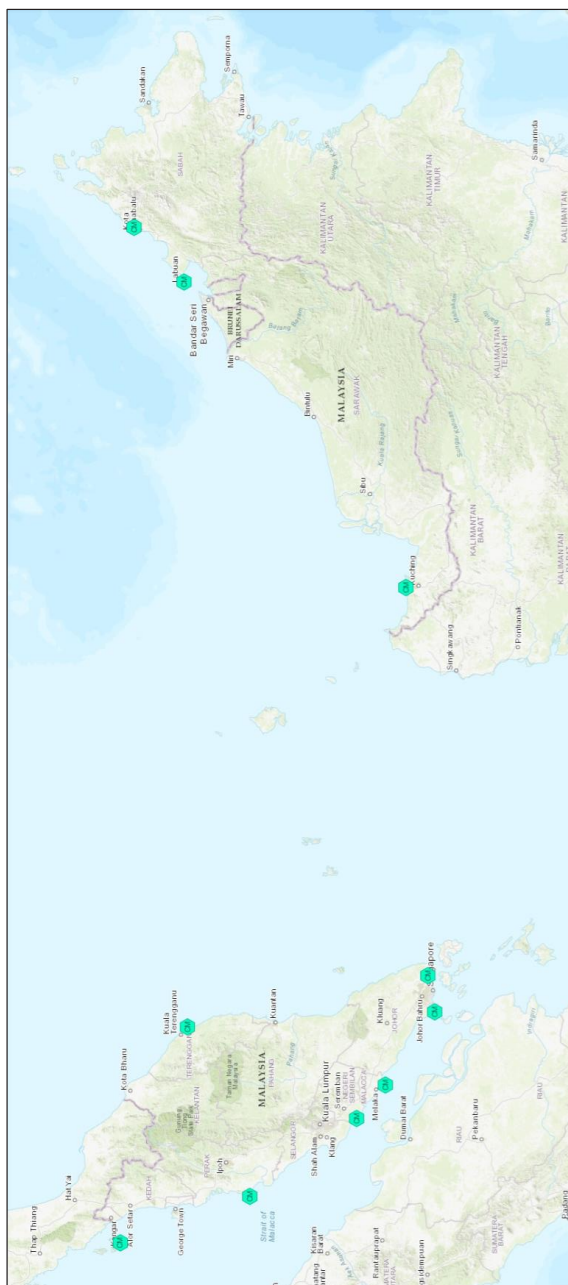


Rajah 5 (b) : Taburan Lokasi Stesen Automatik bagi Pengawasan Kualiti Air Sungai, 2022
Figure 5 (b) : Distribution of River Water Quality Monitoring Automatic Stations in 2022





Rajah 5 (c) : Taburan Lokasi Stesen Automatik bagi Pengawasan Kualiti Air Marin, 2022
Figure 5 (c) : Distribution of Marine Water Quality Monitoring Automatic Stations in 2022



PETUNJUK/LEGEND

- CW MWQM Stations
- State Boundary



5 (d) : Bilangan Stesen Pengawasan Kualiti Alam Sekitar di Malaysia

5 (d) : The Number of Environmental Quality Monitoring Station in Malaysia

KOMPONEN / COMPONENT	STESEN AUTOMATIK / AUTOMATIC STATIONS	STESEN MANUAL / MANUAL STATIONS	STESEN BERGERAK / MOBILE STATIONS
Udara / Air	65	14	3
Air Sungai / River Water	30	1,353	7
Air Marin / Marine Water	10	388	4
Jumlah Stesen / Total No. of Stations	105	1,755	14

5 (e) : Bilangan Persampelan Manual Tahun 2022

5 (e) : The Number of Manual Samplings in Year 2022

KOMPONEN / COMPONENT	STESEN MANUAL / MANUAL STATIONS	FREKUENSI PERSAMPELAN / SAMPLING FREQUENCY	BILANGAN PERSAMPELAN / TOTAL NO. OF SAMPLINGS
Udara / Air	14	Setiap 6 hari / Every 6 days	2,160
Air Sungai / River Water	1,353	6 kali setahun / 6 times a year	8,118
Air Marin / Marine Water	388	6 kali setahun / 6 times a year	2,268



**6 (a) : Lesen-Lesen yang Dikeluarkan bagi Kemudahan Pemerolesan Kembali,
Pengolahan & Pelupusan Buangan Terjadual yang Diluluskan oleh Jabatan Alam Sekitar, 2022**
**6 (a) : Licenses Issued for Recovery Facilities Processing Hazardous Waste Disposal Approved
by the Department of Environment, 2022**

BIL. / NO.		KEMUDAHAN / FACILITIES	JUMLAH LSEN DIKELUARKAN MENGIKUT NEGERI / NUMBER OF LICENCES ISSUED BY STATE															
			JOHOR	KEDAH	KELANTAN	MELAKA	N. SEMBILAN	PAHANG	PERAK	PERLIS	P. PINANG	SABAH	SARAWAK	SELANGOR	TERENGGANU	W.P. KUALA LUMPUR	W.P. LABUAN	JUMLAH / TOTAL
1.		Pembawa Yang Ditetapkan / Prescribed Conveyance	71	22	4	24	27	8	52	34	1	70	10	9	30	6	5	373
		Penstoran Luar Tapak / Off Site Storage	2	0	1	5	1	2	1	1	0	1	0	6	23	0	4	47
2.		Pemerolehan Kembali Luar Tapak / Off Site Recovery																
	a.	Pemerolehan Kembali Luar Tapak (bukan E-waste) / Off Site Recovery (none E-waste)	36	13	1	12	20	8	23	29	1	53	7	3	7	0	2	215
	b.	Pemerolehan Kembali Luar Tapak (penuh E-waste) / Off Site Recovery (full E-waste)	2	0	0	0	1	0	9	0	0	6	0	0	0	0	0	18
	c.	Pemerolehan Kembali Luar Tapak (separa E-waste) / Off Site Recovery (partial E-waste)	25	9	3	8	8	0	20	4	0	18	2	1	5	5	0	108
3.		Penunu Buangan Terjadual / Scheduled Wastes Incinerator	7	0	0	0	2	3	1	4	0	2	1	0	7	0	1	28
4.		Pengolahan Di Tanah / Land Treatment Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
5.		Pengolahan Luar Tapak / Off Site Treatment Facilities	1	1	0	1	7	0	0	2	0	3	0	1	1	0	1	18
6.		Tapak Pelupusan Selamat / Secure Landfill	1	1	0	0	2	1	0	0	0	1	1	0	2	0	0	9
7.		Bil. Lesen / No. of Licence	145	46	9	50	68	22	106	74	2	154	21	20	75	11	14	817
8.		Bil. Premis / No. of Premises	58	22	4	21	25	12	50	29	1	56	9	11	34	5	7	344



**6 (b) : Jumlah Buangan Terjadual
yang Dihasilkan mengikut Kod Kategori Buangan Terjadual, 2022**

6 (b) : Quantity of Scheduled Wastes Generated by Scheduled Waste Category Code, 2022

BIL. / NO.	NAMA BUANGAN / NAME OF WASTE	KOD KATEGORI BUANGAN / WASTE CATEGORY CODE	KUANTITI BUANGAN / QUANTITY OF WASTE	
			(MT / TAHUN) / (MT / YEAR)	PERATUSAN (%) / PERCENTAGE (%)
1	Debu, sanga, dros atau abu yang mengandungi arsenic, raksa, plumbum, kadmium, kromium, nikel, kuprum, vanadium, berilium, antimony, tellurium, talium, atau selenium, tidak termasuk sanga daripada kilang besi dan keluli / Dust, slag, dross or ash containing arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium or selenium excluding slag from iron and steel factory	SW 104	2,780,750.61	47.01
2	Enap cemar yang mengandungi satu atau beberapa logam termasuklah kromium, kuprum, nikel, zinc, plumbum, kadmium, aluminium, timah vanadium dan berilium / Sludges containing one or several metals including chromium, copper, nickel, zinc, lead, cadmium, aluminium, tin, vanadium and beryllium	SW 204	549,179.77	9.28
3	Buangan gypsum yang terhasil daripada proses industri kimia atau loji janakuasa / Waste gypsum arising from chemical industry or power plant	SW 205	441,008.40	7.46
4	Buangan daripada pemasangan elektrik dan elektronik yang mengandungi komponen seperti akumulator, suis raksa, kaca daripada tiub sinar katod dan kaca teraktif atau kapasitor bifenil terpoliklorin yang lain, atau yang dicemari dengan kadmium, raksa, plumbum, nikel, kromium, kuprum, litium, perak, mangan, atau bifenil terpoliklorin / Waste from electrical and electronic assemblies containing components such as accumulators, mercury-switches, glass from cathode-ray tubes and other activated glass or polychlorinated biphenyl-capacitors, or contaminated with cadmium, mercury, lead, nickel, chromium, copper, lithium, silver, manganese or polychlorinated biphenyl	SW 110	286,205.84	4.84
5	Buangan atau enap cemar getah atau lateks yang mengandungi pelarut organik atau logam berat / Rubber or latex wastes or sludge containing organic solvents or heavy metals	SW 321	210,857.10	3.56
6	Campuran buangan terjadual dan buangan tidak terjadual / A mixture of scheduled and non-scheduled wastes	SW 422	195,006.96	3.30
7	Minyak pelincir terpakai / Spent lubricating oil	SW 305	176,910.62	2.99
8	Emulsi minyak mineral-air terpakai / Spent mineral oil-water emulsion	SW 307	171,056.62	2.89
9	Dadah terbuang yang mengandungi bahan psikotropik atau yang mengandungi bahan yang bertoksik, berbahaya, karsinogenik, mutagenik atau teratogenik / Discarded drugs containing psychotropic substances or containing substances that are toxic, harmful, carcinogenic, mutagenic or teratogenic	SW 403	113,578.01	1.92
10	Buangan pelarut organik bukan terhalogen / Waste of non-halogenated organic solvents	SW 322	112,332.01	1.90
11	Bekas, beg atau kelengkapan yang dilupuskan yang dicemari dengan bahan kimia, racun mahluk perosak, minyak mineral atau buangan terjadual / Disposed containers, bags or equipment contaminated with chemicals, pesticides, mineral oil or scheduled wastes	SW 409	110,984.24	1.88



6 (b) : Jumlah Buangan Terjadual yang Dihasilkan mengikut Kod Kategori Buangan Terjadual, 2022
6 (b) : Quantity of Scheduled Wastes Generated by Scheduled Waste Category Code, 2022

BIL. / NO.	NAMA BUANGAN / NAME OF WASTE	KOD KATEGORI BUANGAN / WASTE CATEGORY CODE	KUANTITI BUANGAN / QUANTITY OF WASTE	
			(MT / TAHUN) / (MT / YEAR)	PERATUSAN (%) / PERCENTAGE (%)
12	Enap cemar yang mengandungi fluorida / <i>Sludges containing fluoride</i>	SW 207	97,441.27	1.65
13	Asid tidak organik terpakai / <i>Spent inorganic acids</i>	SW 206	76,253.92	1.29
14	Buangan minyak atau enap cemar berminyak / <i>Waste oil or oily sludge</i>	SW 311	63,716.61	1.08
15	Enap cemar mineral termasuklah enap cemar kalsium hidroksida, enap cemar pemfosfatan, enap cemar kalsium sulfid dan enap cemar karbonat / <i>Mineral sludges including calcium hydroxide sludges, phosphating sludges, calcium sulphite sludges and carbonates sludges</i>	SW 427	62,728.56	1.06
16	Kain buruk, plastik, kertas atau turas yang dicemari dengan buangan terjadual / <i>Rags, plastics, papers or filters contaminated with scheduled wastes</i>	SW 410	62,310.77	1.05
17	Buangan pelekat atau glu yang mengandungi pelarut organik tidak termasuk bahan polimer pepejal / <i>Adhesive or glue waste containing organic solvents excluding solid polymeric materials</i>	SW 303	53,760.99	0.91
18	Buangan patogenik, buangan klinikal atau bahan yang dikuarantinkan / <i>Pathogenic wastes, clinical wastes or quarantined materials</i>	SW 404	49,131.62	0.83
19	Apa-apa sisa daripada pengolahan atau pemerolehan kembali buangan terjadual / <i>Any residues from treatment or recovery of scheduled wastes</i>	SW 501	36,096.37	0.61
20	Buangan dakwat, cat, pigmen, lakuer, perwarna atau varnis / <i>Waste of inks, paints, pigments, lacquer, dye or varnish</i>	SW 417	35,899.13	0.61
21	Karbon teraktif yang terpakai tidak termasuk karbon daripada pengolahan air boleh diminum dan proses industri makanan dan penghasilan vitamin / <i>Spent activated carbon excluding carbon from the treatment of potable water and processes of the food industry and vitamin production</i>	SW 411	25,874.85	0.44
22	Buangan resin tidak matang yang mengandungi pelarut organik atau logam berat termasuklah resin epoksi dan resin fenolik / <i>Uncured resin waste containing organic solvents or heavy metals including epoxy resin and phenolic resin</i>	SW 325	22,373.39	0.38
23	Larutan pemprosesan terpakai, bahan kimia fotografi terbuang atau buangan fotografi terbuang / <i>Spent processing solution, discarded photographic chemicals or discarded photographic wastes</i>	SW 423	21,068.81	0.36
24	Enap cemar dakwat, cat pigmen, lakuer, perwarna atau varnis / <i>Sludges of inks, paints, pigments, lacquer, dye or varnish</i>	SW 416	19,658.67	0.33
25	Buangan mangkin / <i>Waste catalysts</i>	SW 202	18,779.80	0.32
26	Campuran minyak-air seperti air ballast / <i>Oil-water mixture such as ballast water</i>	SW 309	16,952.62	0.29
27	Bahan kimia yang terbuang atau tidak mengikut spesifikasi / <i>Chemicals that are discarded or off-specification</i>	SW 429	16,528.46	0.28
28	Produk dakwat, cat, pigmen, lakuer, perwarna atau varnish yang terbuang atau yang tidak mengikut spesifikasi yang mengandungi pelarut organik / <i>Discarded or off-specification inks, paints, pigments, lacquer, dye or varnish products containing organic solvent</i>	SW 418	10,523.83	0.18



6 (b) : Jumlah Buangan Terjadual yang Dihasilkan mengikut Kod Kategori Buangan Terjadual, 2022
6 (b) : Quantity of Scheduled Wastes Generated by Scheduled Waste Category Code, 2022

BIL. / NO.	NAMA BUANGAN / NAME OF WASTE	KOD KATEGORI BUANGAN / WASTE CATEGORY CODE	KUANTITI BUANGAN / QUANTITY OF WASTE	
			(MT / TAHUN) / (MT / YEAR)	PERATUSAN (%) / PERCENTAGE (%)
29	Alkali terpakai yang mengandungi logam berat / Spent alkalis containing heavy metals	SW 401	9,497.01	0.16
30	Minyak hidraulik terpakai / Spent hydraulic oil	SW 306	8,611.06	0.15
31	Buangan pelarut organik terhalogen / Waste of halogenated organic solvents	SW 323	6,384.81	0.11
32	Campuran buangan terjadual / A mixture of scheduled wastes	SW 421	6,228.84	0.11
33	Buangan cecair terma (pemindahan haba) seperti glikol etilena / Waste of thermal fluids (heat transfer) such as ethylene glycol	SW 327	5,738.18	0.10
34	Tanah, puing, atau bahan tercemar yang terhasil daripada pembersihan tumpahan bahan kimia, minyak mineral, atau buangan terjadual / Contaminated soil, debris or matter resulting from cleaning-up of a spill of chemical, mineral oil or scheduled wastes	SW 408	5,284.59	0.09
35	Buangan bateri asid plumbum dalam bentuk sempurna atau hancur / Waste of lead acid batteries in whole or crushed form	SW 102	5,275.11	0.09
36	Minyak atau enap cemar daripada operasi penyenggaraan loji penapisan minyak / Oil or sludge from oil refinery plant maintenance operation	SW 314	4,005.99	0.07
37	Alkali terpakai dengan pH yang lebih daripada atau sama dengan 11.5 yang mengakis atau berbahaya / Spent alkalis with pH more or equal to 11.5 which are corrosive or hazardous	SW 402	3,332.82	0.06
38	Klinker, sangan, abu, dari penunu buangan terjadual / Clinker, slag and ashes from scheduled wastes incinerator	SW 406	3,282.45	0.06
39	Buangan bateri yang mengandungi kadmium dan nikel atau raksa atau litium / Waste of batteries containing cadmium and nickel or mercury or lithium	SW 103	3,280.33	0.06
40	Sisa berminyak dari bengkel automotif, stesen servis minyak atau perangkap gris / Oily residue from automotive workshop, service station, oil or grease interceptor	SW 312	2,578.59	0.04
41	Asid organik terpakai dengan pH yang kurang daripada atau sama dengan 2 yang mengakis atau berbahaya / Spent organic acids with pH less or equal to 2 which are corrosive or hazardous	SW 301	2,475.12	0.04
42	Larutan alkali berair terpakai yang mengandungi sianida / Spent aqueous alkaline solution containing cyanide	SW 414	1,719.55	0.03
43	Buangan yang mengandungi formadehid / Waste containing formaldehyde	SW 320	1,681.03	0.03
44	Buangan yang mengandungi raksa atau sebatianannya / Waste containing mercury or its compound	SW 109	1,411.70	0.02
45	Enap cemar dari tangki penyimpanan minyak mineral / Sludge from mineral oil storage tank	SW 310	1,380.70	0.02
46	Enap cemar kapal tangki minyak / Oil tanker sludges	SW 308	1,070.14	0.02
47	Buangan asbestos dalam bentuk enap cemar, debu atau gentian / Asbestos wastes in sludges, dust or fibre forms	SW 201	959.24	0.02



6 (b) : Jumlah Buangan Terjadual yang Dihasilkan mengikut Kod Kategori Buangan Terjadual, 2022
6 (b) : Quantity of Scheduled Wastes Generated by Scheduled Waste Category Code, 2022

BIL. / NO.	NAMA BUANGAN / NAME OF WASTE	KOD KATEGORI BUANGAN / WASTE CATEGORY CODE	KUANTITI BUANGAN / QUANTITY OF WASTE	
			(MT / TAHUN) / (MT / YEAR)	PERATUSAN (%) / PERCENTAGE (%)
48	Buangan yang terhasil daripada peyediaan dan pengeluaran barangan farmaseutikal / Waste arising from the preparation and production of pharmaceutical product	SW 405	818.11	0.01
49	Buangan terjadual tidak boleh bergerak termasuklah enap cemar yang ditetapkan secara kimia, dikapsulkan, dipejalkan atau distabilkan / Immobilized scheduled wastes including chemically fixed, encapsulated, solidified or stabilized sludges	SW 203	639.30	0.01
50	Tar atau sisa bertar dari loji penapisan minyak atau loji petrokimia / Tar or tarry residues from oil refinery or petrochemical plant	SW 315	608.92	0.01
51	Bahan kimia makmal yang usang / Obsolete laboratory chemicals	SW 430	424.06	0.01
52	Buangan sisa penyulingan tidak berair terhalogen atau bukan terhalogen yang terhasil daripada proses permeolehan kembali pelarut organik / Waste of halogenated or unhalogenated non-aqueous distillation residues arising from organic solvents recovery process	SW 324	323.21	0.01
53	Tanah yang dicemari minyak daripada penapisan semula minyak pelincir terpakai / Oil contaminated earth from re-refining of used lubricating oil	SW 313	277.65	0.00
54	Buangan fluks yang mengandungi campuran asid organik, pelarut atau sebatian ammonium klorida / Flux waste containing mixture of organic acids, solvents or compounds of ammonium chloride	SW 302	204.17	0.00
55	Buangan daripada pengeluaran, formulasi, perdagangan atau penggunaan racun mahluk perosak, racun herba atau biosid / Wastes from the production, formulation, trade or use of pesticides, herbicides or biocides	SW 425	164.67	0.00
56	Sisa daripada pemerolehan kembali likuor penjerukan asid / Residues from recovery of acid pickling liquor	SW 106	126.58	0.00
57	Produk yang tidak mengikut spesifikasi daripada pengeluaran, formulasi, perdagangan, atau penggunaan racun mahluk perosak, racun herba, atau biosid / Off-specification products from the production, formulation, trade or use of pesticides, herbicides or biocides	SW 426	67.19	0.00
58	Diisiosanat terpakai dan sisa sebatian isiosanat tidak termasuk bahan berpolimer pepejal daripada proses pengilangan busa / Spent di-isocyanates and residues of isocyanate compounds excluding solid polymeric material from foam manufacturing process	SW 419	56.34	0.00
59	Enap cemar asid / Acid sludge	SW 316	51.53	0.00
60	Buangan fenol atau sebatian fenol termasuklah klorofenol dalam bentuk cecair atau enapcemar / Waste of phenols or phenol compounds including chlorophenol in the form of liquids or sludges	SW 319	39.96	0.00
61	Buangan yang mengandungi arsenik atau sebatiananya / Waste containing arsenic or its compound	SW 101	34.81	0.00
62	Buangan yang mengandungi, yang terdiri daripada, atau yang dicemari dengan peroksida / Waste containing, consisting of or contaminated with, peroxides	SW 432	22.41	0.00

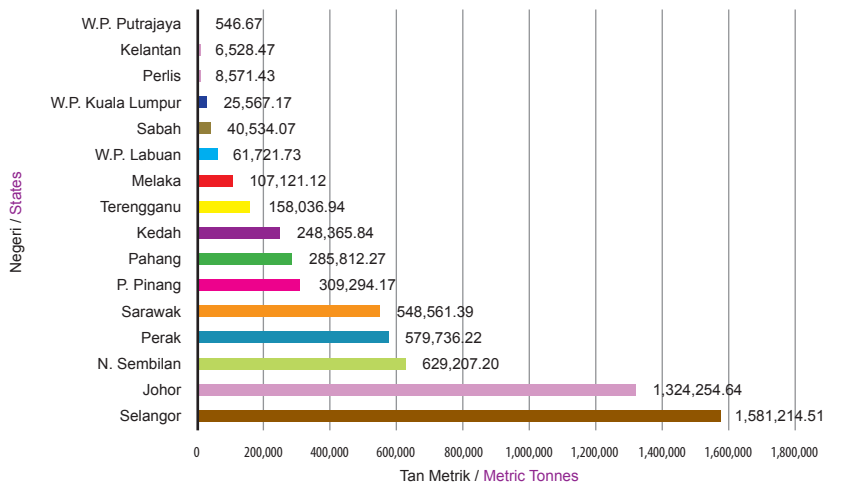


6 (b) : Jumlah Buangan Terjadual yang Dihasilkan mengikut Kod Kategori Buangan Terjadual, 2022
6 (b) : Quantity of Scheduled Wastes Generated by Scheduled Waste Category Code, 2022

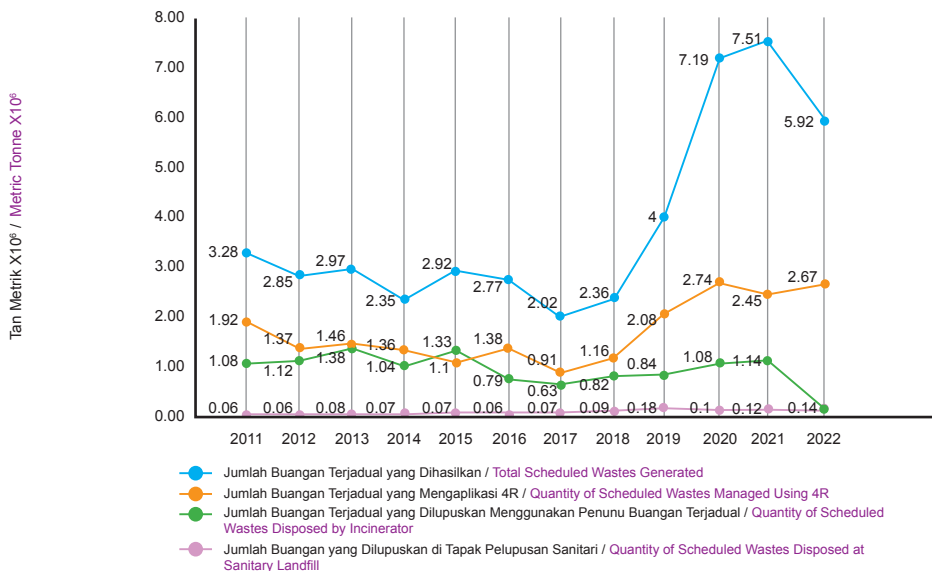
BIL. / NO.	NAMA BUANGAN / NAME OF WASTE	KOD KATEGORI BUANGAN / WASTE CATEGORY CODE	KUANTITI BUANGAN / QUANTITY OF WASTE	
			(MT / TAHUN) / (MT / YEAR)	PERATUSAN (%) / PERCENTAGE (%)
63	Buangan daripada pengilangan atau pemprosesan atau penggunaan bahan letupan / Waste from manufacturing or processing or use of explosives	SW 431	21.78	0.00
64	Agen pengoksidaan terpakai / Spent oxidizing agent	SW 424	17.53	0.00
65	Enap cemar yang mengandungi sianida / Sludges containing cyanide	SW 412	4.07	0.00
66	Sanga daripada pemprosesan kuprum bagi pemprosesan lanjut atau penapisan yang mengandungi arsenic, plumbum, atau kadmium / Slags from copper processing for further processing or refining containing arsenic, lead or cadmium	SW 107	1.26	0.00
67	Sisa larutan resap daripada pemprosesan zink dalam bentuk debu dan enap cemar / Leaching residues from zinc processing in dust and sludges form	SW 108	1.15	0.00
68	Garam terpakai yang mengandungi sianida / Spent salt containing cyanide	SW 413	0.96	0.00
69	Buangan sebatian fosforus organik / Waste of organic phosphorus compound	SW 326	0.89	0.00
70	Sebatian organologam terpakai termasuklah plumbum tetraetil, plumbum tetrametil dan sebatian organotinmah / Spent organometallic compounds including tetraethyl lead, tetramethyl lead and organotin compounds	SW 317	0.10	0.00
71	Buangan yang mengandungi dioksin dan furan / Waste containing dioxins or furans	SW 407	0.09	0.00
72	Enap cemar galvanik / Galvanic sludges	SW 105	-	0.00
73	Kek tekan daripada prapengolahan lai sabun gliserol / Press cake from pretreatment of glycerol soap lye	SW 304	-	0.00
74	Buangan, bahan dan artikel yang mengandungi atau yang dicemari dengan bifenil terpoliklorin (BFT) atau trifenil terpoliklorin (TFT) / Waste, substances and articles containing or contaminated with polychlorinated biphenyls (PCB) or polychlorinated triphenyls (PCT)	SW 318	-	0.00
75	Minyak pelindapan terpakai yang mengandungi sianida / Spent quenching oils containing cyanides	SW 415	-	0.00
76	Larutan resap dari tapak pelupusan buangan terjadual / Leachate from scheduled waste landfill	SW 420	-	0.00
77	Buangan daripada operasi pengawetan kayu yang menggunakan garam tidak organik yang mengandungi kuprum, kromium, atau arsenik daripada sebatian fluoride atau yang menggunakan sebatian yang mengandungi fenol berklorin atau kreosot / Wastes from wood preserving operation using inorganic salts containing copper, chromium or arsenic of fluoride compounds or using compound containing chlorinated phenol or creosote	SW 428	-	0.00
JUMLAH / TOTAL			5,915,073.84	100



6 (c) : Penghasilan Buangan Terjadual mengikut Negeri 2022 6 (c) : Distribution of Scheduled Waste Generated by State 2022



6 (d) : Trend Pengurusan Buangan Terjadual, 2011-2022 6 (d) : Scheduled Waste Management Trend, 2011-2022





6 (e) : Kemudahan yang Mengendalikan Buangan Terjadual, 2022

6 (e) : Facilities Handling Scheduled Wastes, 2022

BIL. / NO.	KEMUDAHAN / FACILITIES	(MT/TAHUN) / (MT/YEAR)	PERATUSAN (%) / PERCENTAGE (%)
1	Pengurusan Khas / <i>Special Waste Management</i>	1,095,654.76	18.52%
2	Pengolahan Dalam Tapak / <i>On Site Treatment</i>	1,297,809.64	21.94%
3	Kemudahan Pemerolehan Kembali Luar Tapak Tempatan / <i>Local Off-Site Recovery Facilities</i>	417,207.62	7.05%
4	Penstoran Dalam Tapak / <i>On Site Storage</i>	2,828,424.64	47.82%
5	Kualiti Alam Sdn. Bhd.	189,088.00	3.20%
6	Kemudahan Buangan Klinik (Penunu Buangan Klinik, Gelombang Mikro dan Tapak Pelupusan Selamat) / <i>Off-Site Clinical Waste Facilities (Clinical Waste Incinerator, Microwave and Secure Landfills)</i>	49,131.62	0.83%
7	Kemudahan Luar Negara (Eksport) / <i>Foreign Facilities (Export)</i>	4,329.00	0.07%
8	Trienekens (Sarawak) Sdn. Bhd.	33,428.56	0.57%
JUMLAH / TOTAL		5,915,073.84	100.00%

6 (f) : Buangan Terjadual yang Diuruskan Di Bawah Pengurusan Khas, 2022

6 (f) : Scheduled Waste Managed Under Special Management, 2022

BIL. / NO.	KATEGORI BUANGAN / WASTE CATEGORY	KOD BUANGAN / WASTE CODE	PUNCA / SOURCE	TAN METRIK / METRIC TONNES	PERATUSAN / PERCENTAGE (%)	KAEDAH PELUPUSAN / METHOD OF DISPOSAL
1	Enap cemar yang mengandungi satu atau beberapa logam termasuklah kromium, kuprum, nikel, zink, plumbum, kadmium, aluminium, timah vanadium dan berilium / <i>Sludges containing one or several metals including chromium, copper, nickel, zinc, lead, cadmium, aluminium, tin, vanadium and beryllium</i>	SW 204	Loji Rawatan Air Minuman / <i>Drinking Water Treatment Plant</i>	138,387.20	12.6	Tapak Pelupusan Sanitari / <i>Sanitary Landfill</i>
			Industri / <i>Industries</i>	3,686.39	0.3	
				1,591.06	0.2	Guna semula sebagai bahan mentah pembuatan produk / <i>Reuse as raw material for products</i>
2	Debu, sanga, dros atau abu yang mengandungi arsenic, raksa, plumbum, kadmium, kromium, nikel, kuprum, vanadium, berilium, antimony, tellurium, talium, atau selenium, tidak termasuk sanga daripada kilang besi dan keluli / <i>Dust, slag, dross or ash containing arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium or selenium excluding slag from iron and steel factory</i>	SW 104	Loji Janakuasa Arang Batu / <i>Coal-Fired Power Plant</i>	743,761.26	67.9	Guna semula sebagai bahan mentah pembuatan produk / <i>Reused as raw material for product</i>
			Industri / <i>Industries</i>	201,253.78	18.4	



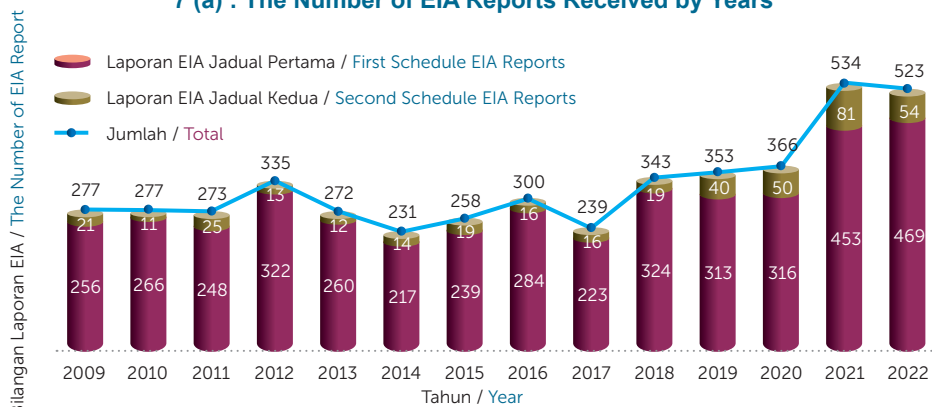
6 (f) : Buangan Terjadual yang Diuruskan Di Bawah Pengurusan Khas, 2022
6 (f) : Scheduled Waste Managed Under Special Management, 2022

BIL / NO.	KATEGORI BUANGAN / WASTE CATEGORY	KOD BUANGAN / WASTE CODE	PUNCA / SOURCE	TAN METRIK / METRIC TONNES	PERATUSAN / PERCENTAGE (%)	KAEDAH PELUPUSAN / METHOD OF DISPOSAL
3	Buangan yang mengandungi formadehid / Waste containing formaldehyde Buangan resin tidak matang yang mengandungi pelarut organic atau logam berat termasuklah resin epoksi dan resin fenolik / Uncured resin waste containing organic solvents or heavy metals including epoxy resin and phenolic resin Produk dakwat, cat, pigmen, lakuer, perwarna atau varnish yang terbuang atau yang tidak mengikut spesifikasi yang mengandungi pelarut organic / Discarded or off-specification inks, paints, pigments, lacquer, dye or varnish products containing organic solvent	SW 320 SW 325 SW 418	Industri / Industries	749.43	0.1	Tapak Pelupusan Sanitari / Sanitary Landfill
4	Bekas, beg atau kelengkapan yang dilupuskan yang dicemari dengan bahan kimia, racun mahluk perosak, minyak mineral atau buangan terjadual / Disposed containers, bags or equipment contaminated with chemicals, pesticides, mineral oil or scheduled wastes	SW 409	Industri / Industries	0.16	0.00	Guna semula sebagai bahan mentah pembuatan produk / Reused as raw material for product
5	Karbon teraktif yang terpakai tidak termasuk karbon daripada pengolahan air boleh diminum dan proses industri makanan dan penghasilan vitamin / Spent activated carbon excluding carbon from the treatment of potable water and processes of the food industry and vitamin production	SW 411	Industri / Industries	6,204.00	0.6	Guna semula sebagai bahan mentah pembuatan produk / Reused as raw material for product
6	Buangan daripada pengilangan atau pemprosesan atau penggunaan bahan letupan / Waste from manufacturing or processing or use of explosives	SW 431	Industri / Industries	21.48	0.00	Kaedah Pembakaran / Burning method
JUMLAH / TOTAL				1,095,654.76	100.00	



7 (a) : Bilangan Laporan EIA yang Diterima mengikut Tahun

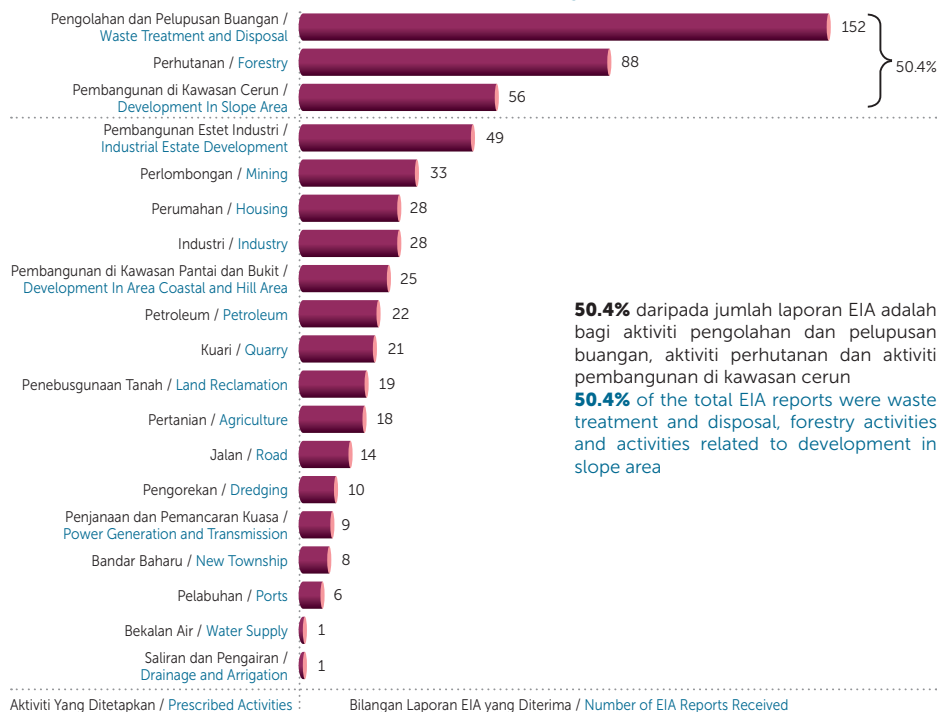
7 (a) : The Number of EIA Reports Received by Years



7 (b) : Bilangan Laporan EIA

yang Diterima mengikut Aktiviti yang Ditetapkan, 2022

7 (b) : The Number of EIA Reports Received by Prescribed Activities, 2022





7 (c) : Jumlah Keseluruhan Jururunding Berdaftar Sehingga 31 Disember 2022

7 (c) : Number of Registered Consultants Until 31 December 2022

BIL. / NO.	KATEGORY / CATEGORY	BILANGAN JURURUNDING / NUMBERS OF CONSULTANT	PERATUSAN / PERCENTAGE
1.	Jururunding EIA / EIA Consultant	132	23.9
2.	Jururunding EIA & Pakar Subjek / Subject Consultant (CS)	82	14.8
3.	Pakar Subjek / Subject Specialist (SS)	193	34.9
4.	Pembantu Jururunding / Assistant Consultant (AC)	142	25.7
5.	Pembantu Jururunding & Pakar Subjek / Assistant Consultant & Subject Specialist (ACS)	4	0.7
JUMLAH / TOTAL		553	100

7 (d) : Jumlah Permohonan Juruaudit

Alam Sekeliling yang Diluluskan bagi Tahun 2022

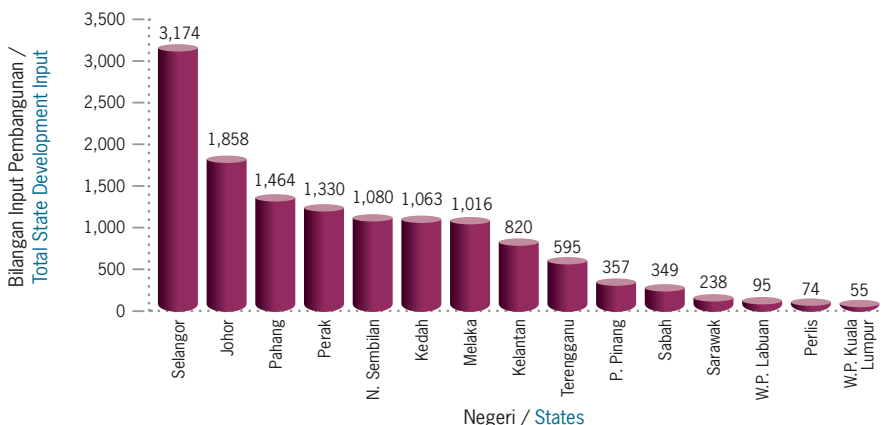
7 (d) : Number of Approved Environmental Auditor Applications in 2022

JENIS PERMOHONAN / TYPES OF APPLICANT	JUMLAH PERMOHONAN / NO. OF APPLICANTS	JUMLAH LULUS / NO. OF APPLICATIONS APPROVED	PERATUSAN LULUS / PERCENTAGE APPROVED
Baharu / New	40	37	92.5 %
Pembaharuan / Renew	20	19	95 %

7 (e) : Bilangan Input Alam Sekitar

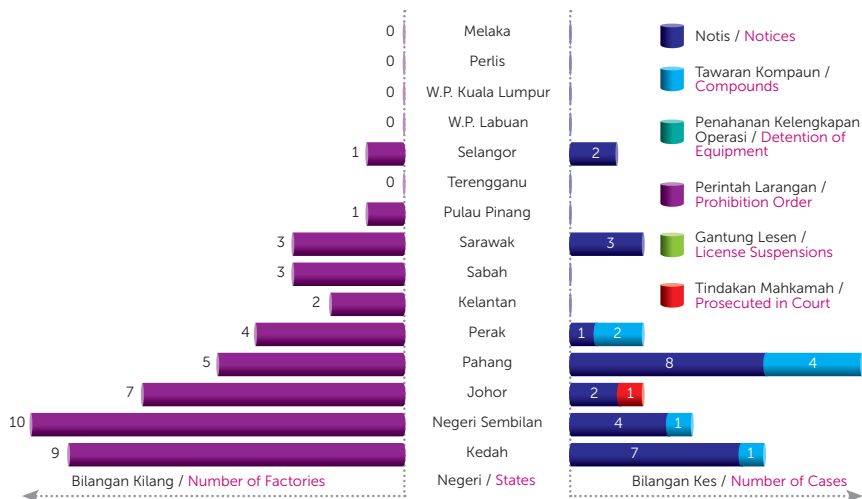
kepada Perancangan Pembangunan mengikut Negeri, 2022

7 (e) : The Number of Environmental Input for Development Planning by States, 2022

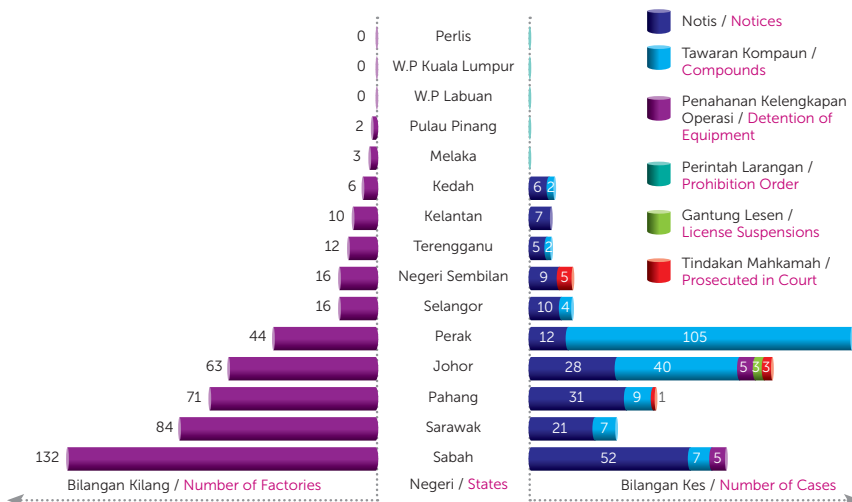




**8 (a) :Bilangan Kilang Getah Asli Mentah dan
Tindakan Undang-Undang Terhadap Kilang Getah Asli Mentah, 2022**
**8 (a) :Number of Raw Natural Rubber Factories and Legal Actions Against
Raw Natural RubberFactories, 2022**



**8 (b) : Bilangan Kilang Minyak Kelapa Sawit Mentah dan Tindakan
Undang-Undang Terhadap Kilang Minyak Kelapa Sawit Mentah, 2022**
**8 (b) :Number of Crude Palm Oil Mills and Legal Actions Taken Against
Crude Palm Oil Mills, 2022**





8 (c) : Number and Legal Actions Againsts Facilities for the Treatment and Disposal Facilities of Scheduled Wastes, 2022

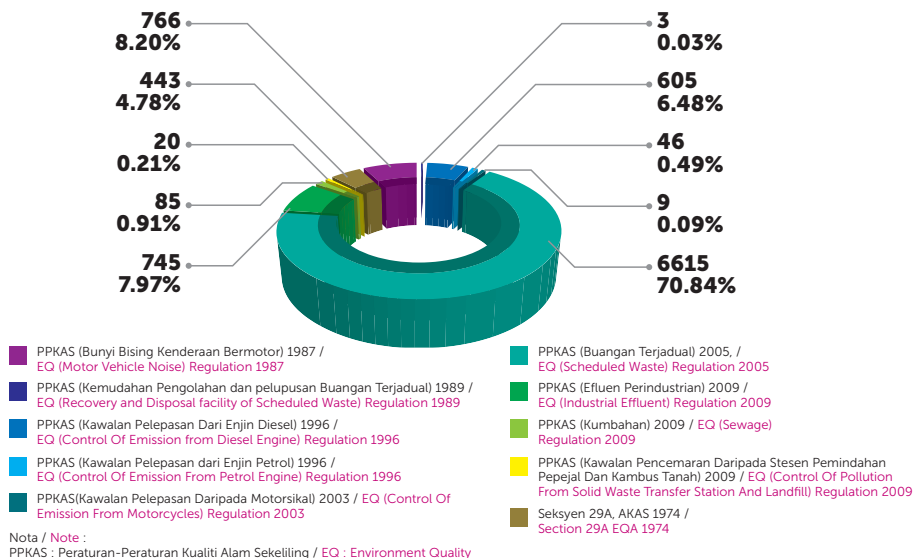


8 (d) : Number of Court Cases and Fines, 2022



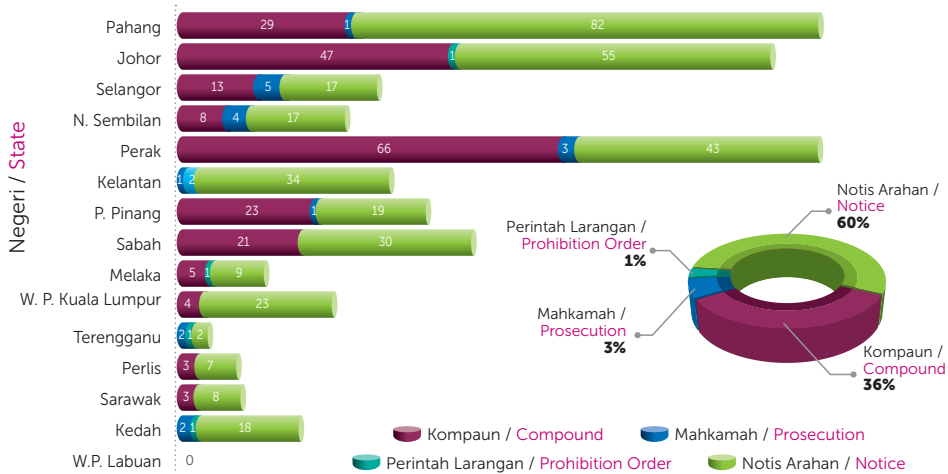


8 (e) : Bilangan Kes Kompaun Mengikut Kesalahan, 2022 8 (e) : Number of Compound Cases According to Offences, 2022



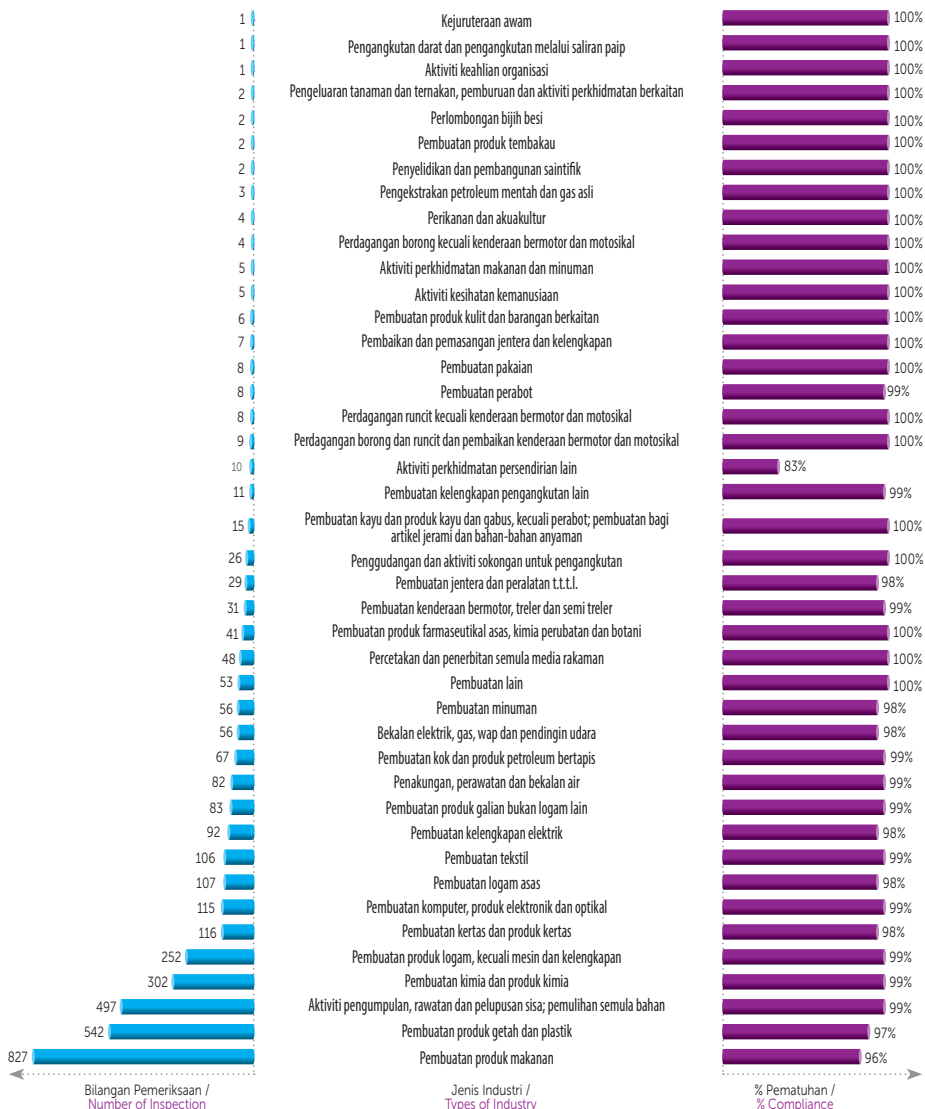
8 (f) : Tindakan Susulan Penguatkuasaan Projek EIA Tahun 2022 8 (f) : Follow Up Action of EIA Enforcement Investigations Year 2022

Bilangan Tindakan Susulan Penguatkuasaan / Number of Follow Up Actions Enforcements





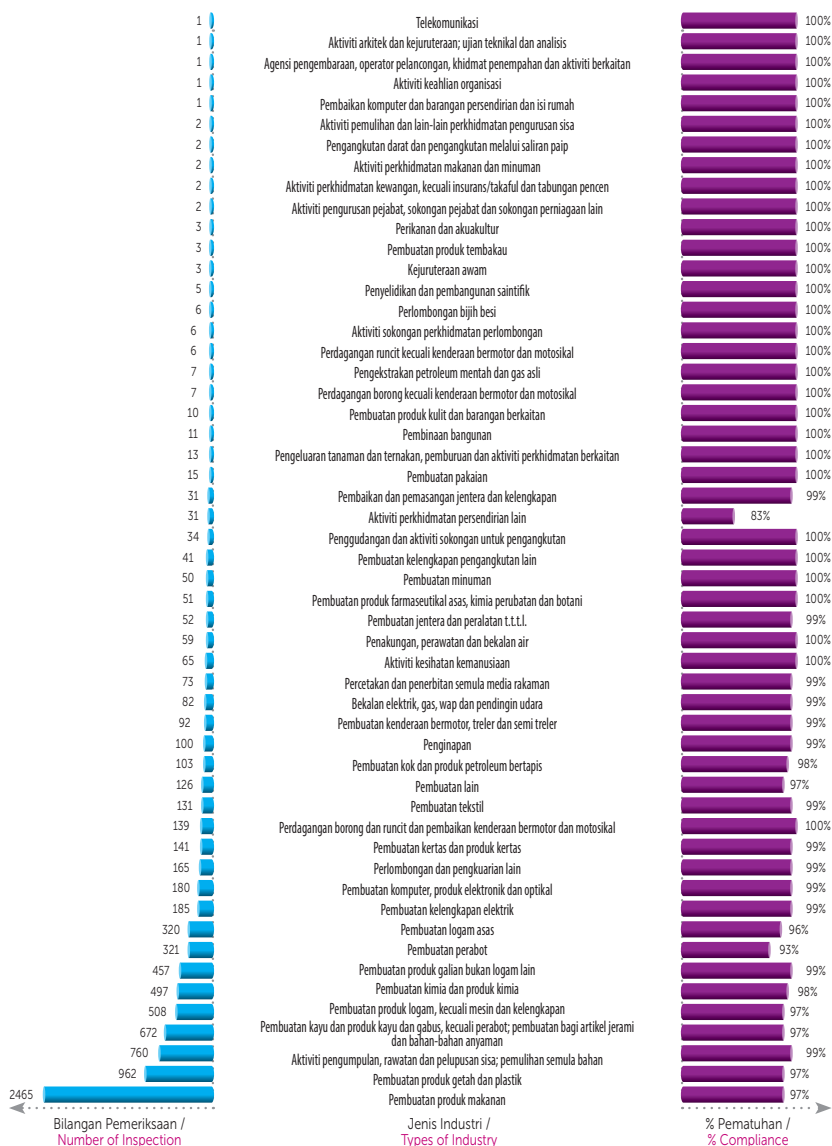
**8 (g) : Status Pematuhan Industri Terhadap
Peraturan-Peraturan Kualiti Alam Sekeliling (Efluen Perindustrian) 2009, 2022**
**8 (g) : Compliance Status to the Environmental Quality (Industrial Effluent)
Regulations 2009, 2022**





8 (h) : Status Pemuatan Industri Terhadap Peraturan-Peraturan Kualiti Alam Sekeliling (Udara Bersih) 2014, 2022

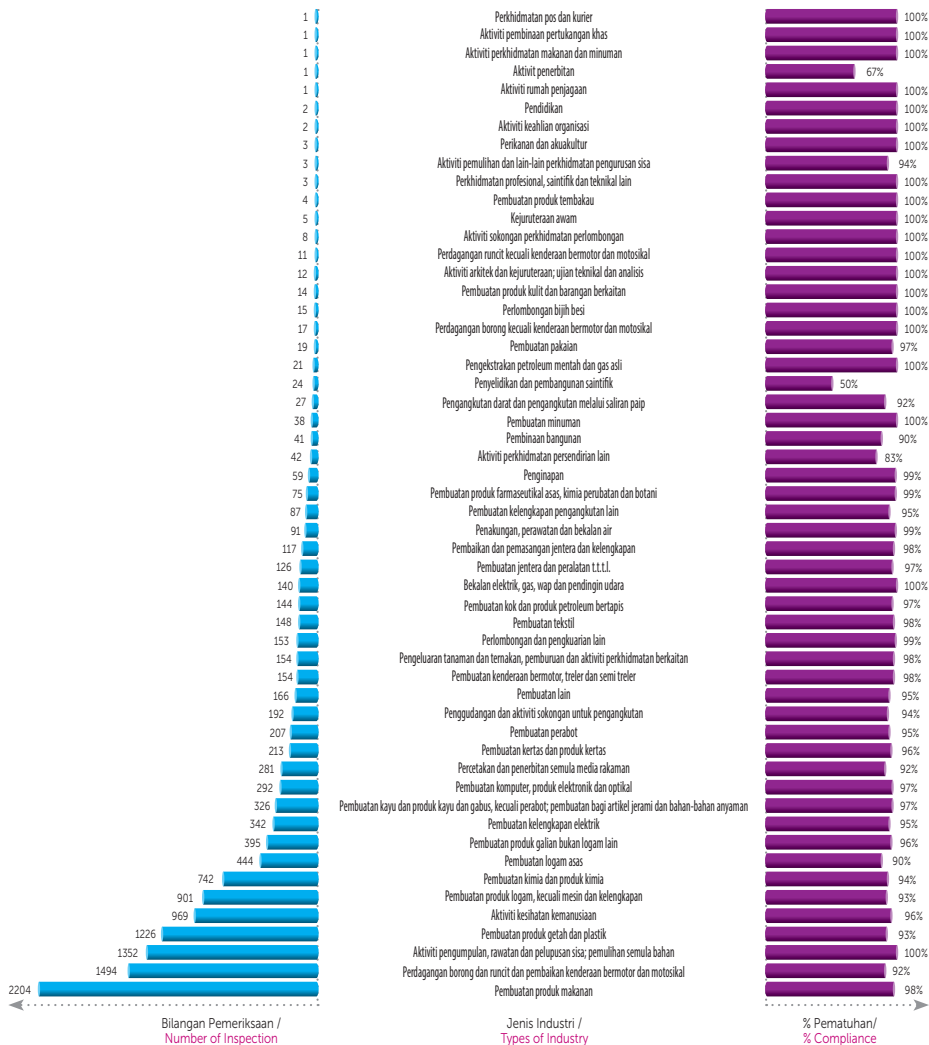
8 (h) : Compliance Status to the Environmental Quality (Clean Air) Regulations 2014, 2022





8 (i) : Status Pemuatan Industri Terhadap Peraturan-Peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005, 2022

8 (i) : Compliance Status to the Environmental Quality (Scheduled Wastes) Regulations 2005, 2022





AKTIVITI KESEDARAN ALAM SEKITAR (IBU PEJABAT)

	HARI ALAM SEKITAR NEGARA	13 PROGRAM	OUTREACH 186,359
	HARI ALAM SEKITAR SEDUNIA	11 PROGRAM	OUTREACH 45,504
	HARI BUMI	8 PROGRAM	OUTREACH 59,022
	HARI OZON SEDUNIA	7 PROGRAM	OUTREACH 18,055
	PENGUMPULAN BEE/eWASTE	0 PROGRAM	OUTREACH 0
	PROGRAM DSK/ KUDAH	14 PROGRAM	OUTREACH 1,230
	PAMERAN ALAM SEKITAR	11 PAMERAN	OUTREACH 8,945
	RAKAN ALAM SEKITAR (RAS)	PENDAFTARAN AHLI RAS	BIL. AHLI 169,162
	RAKAN ALAM SEKITAR (RAS)	PROGRAM KESEDARAN 14 AKTIVITI	OUTREACH 1,700
	KERJASAMA RAKAN STRATEGIK (RS)	SASARAN BILANGAN RS 6	BIL. RS 9
	WEBINAR / SLOT TEMUBUAL	16 PROGRAM	OUTREACH 19,683



PERHUBUNGAN ANTARABANGSA (IBU PEJABAT)

MESYUARAT / AKTIVITI/ KERJASAMA ANTARABANGSA



BILATERAL

25 PROGRAM
(Mesyuarat/
Kerjasama)



MULTILATERAL

8 PROGRAM
(Mesyuarat/
Kerjasama)

12 Hebahhan
(Did you know?
[MEAs])

PENDIDIKAN ALAM SEKITAR (IBU PEJABAT)

PENDIDIKAN & KESEDARAN ALAM SEKITAR



SEKOLAH

20 PROGRAM



IPT

18 PROGRAM

MEDIA DAN KOMUNIKASI KORPORAT (IBU PEJABAT)



HEBAHAN
MEDIA MASSA

52 HEBAHAN



HEBAHAN MEDIA
SOSIAL

295 HEBAHAN



PANTUN/PUISI/SAJAK/
SYAIR ALAM

25 CONTENT



LIPUTAN PROGRAM/ACARA/ WEBINAR MELALUI
FB LIVE & YOUTUBE LIVE

23 PROGRAM



E-Pelanggan

6 PROGRAM



PENYEDIAAN GRAFIK

281 GRAFIK



PENYEDIAAN VIDEO UMUM/
OPS/MONTAJ/ GIMIK/ IPU
PROGRAM/ ACARA JABATAN

178 VIDEO



FOTOGRAFI PROGRAM/LAWATAN/
MESYUARAT/KORPORAT

135 PROGRAM



KENYATAAN MEDIA

29
KENYATAAN



POCKET TALK

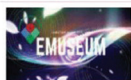
11 PROGRAM

PENERBITAN DAN PERPUSTAKAAN (IBU PEJABAT)



MUATNAIK
BAHAN
KE EKMC

284 BAHAN
3 Bahan/Bulan



MUATNAIK
BAHAN
KE eMUSEUM

171 AKTIVITI
10 Aktiviti/Bulan



MONDAY IS
ENGLISH
SPEAKING DAY

51 HEBAHAN
4 Hebahhan/Bulan



GREEN TIPS

51 HEBAHAN
4 Hebahhan/Bulan



LAPORAN
KUALITI
ALAM
SEKELILING

1 BUKU



BUKU
KOMPENDIUM

1 BUKU



BUKU ILMIAH



LAPORAN
TAHUNAN

1 BUKU



e-BULETIN

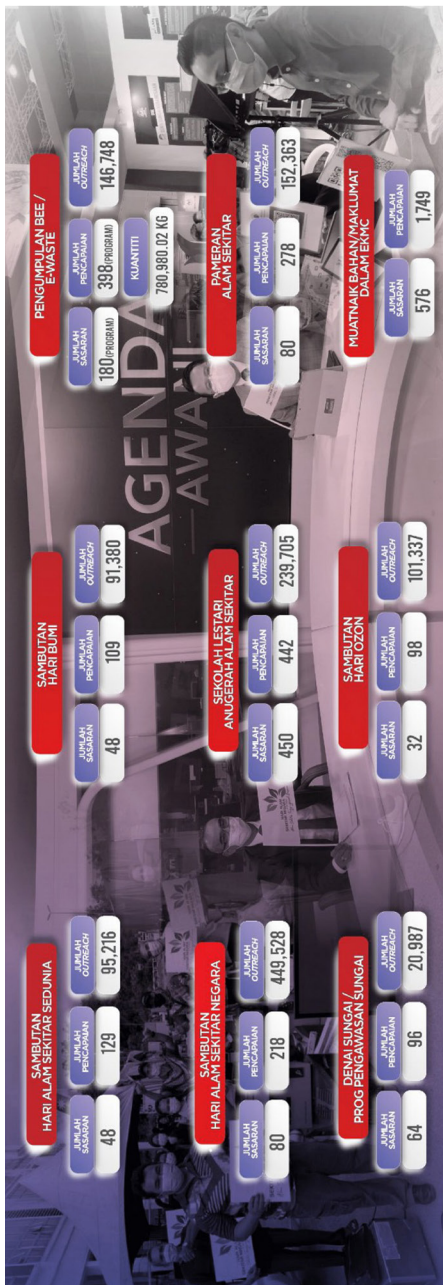
4 NASKAH



7 BUKU



PencapaianProgram CEPA JAS Tahun2022 Achievements of the DOE CEPA Program in 2022



**10 (a) : Pengurusan Sumber Manusia dan Kewangan****10 (a) : Human Resource Management****PERATUSAN PENGISIAN
PERJAWATAN /
THE PERCENTAGE OF
OCCUPANCY****93.24%**

- Perjawatan JAS sehingga 31 Disember 2022 / Occupancy as at of 31st December 2022
- Perjawatan / : **1,539**
Positions:
- Kekosongan yang : **1,435**
diisi / Occupied
- Kekosongan / : **104**
Vacancy:

**PERATUSAN PEGAWAI
MENGHADIRI KURSUS / THE
PERCENTAGE OF OFFICERS WHO
ATTENDED COURSES 2022****100%**

- **1,429** orang pegawai JAS menghadiri kursus selama 4 hari dan lebih pada tahun 2022 / **1,429** DOE officers attended courses for 4 days or more in 2022

**ANUGERAH PERKHIDMATAN
CEMERLANG (APC) /
EXCELLENT SERVICE
AWARDS (ESA)**

- 116 orang pegawai JAS yang menerima APC pada tahun 2020 dan 2021 / 116 DOE officers received in 2020 and 2021
- Majlis APC Kementerian Alam Sekitar dan Air Tahun 2020 dan 2021 telah diadakan pada 28 Mac 2022 / The 2020 and 2021 ESA Ministry of Environment and Water event was held on 28th March 2022

Pecahan Pegawai JAS Mengikut Jantina**Breakdown Of DOE Officers By Gender**

LELAKI / MALE	WANITA / FEMALE
813	622

**Pecahan Perjawatan
Breakdown of Positions**

PEGAWAI TEKNIKAL / TECHNICAL OFFICERS	PEGAWAI BUKAN TEKNIKAL / NON-TECHNICAL OFFICERS
1,130	409

**Perbelanjaan Pembangunan JAS 2022
Development Expenditure of DOE in 2022**

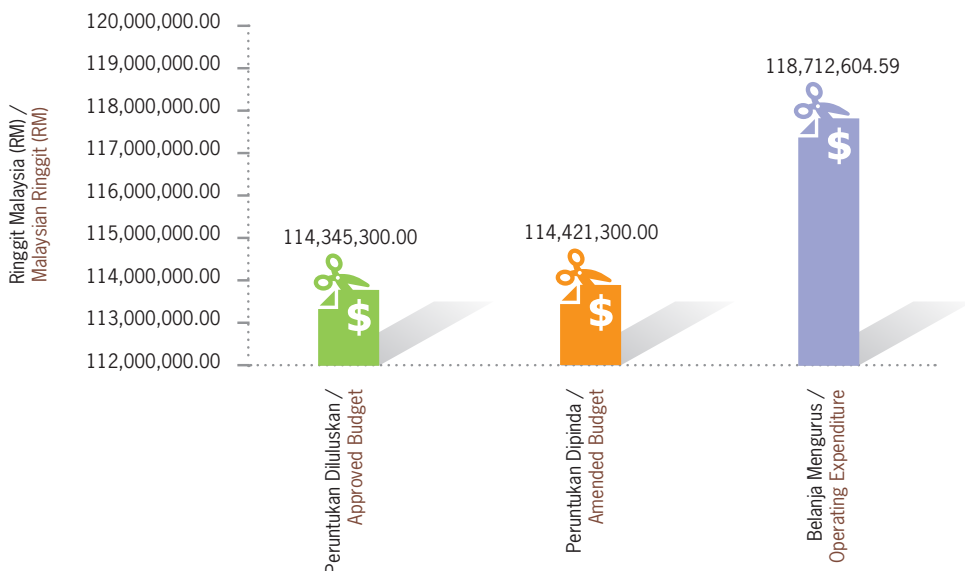
PERUNTUKAN / BUDGET ALLOCATION	PERBELANJAAN / EXPENDITURE
RM83,775,680.00	RM82,569,310.21



10 (b) : Belanja Mengurus 2022
10 (b) : Operating Expenditure 2022

OBJEK AM / GENERAL OBJECT	PERIHAL OBJEK AM / DESCRIPTION OF GENERAL OBJECT	PERUNTUKAN DILULUSKAN (RM) / APPROVED ALLOCATION (RM)	PERUNTUKAN DIPINDA (RM)/ AMENDED ALLOCATION (RM)
10,000	Emolumen / Emolument	89,683,200.00	89,683,200.00
20,000	Perkhidmatan dan Bekalan / Services and Supplies	23,627,100.00	23,394,285.00
30,000	Aset / Assets	500,000.00	883,118.00
40,000	Pemberian dan Kenaan Bayaran Tetap / Grants and Fixed Charges	535,000.00	460,697.00
JUMLAH KESELURUHAN / OVERALL TOTAL		114,345,300.00	114,421,300.00

10 (c) : Perbelanjaan Mengurus 2022
10 (c) : Operating Expenditure 2022





10 (d) : Program Latihan EiMAS kepada Pegawai dan Kakitangan JAS 2022

10 (d) : EiMAS Training Programmes for DOE Staff 2022

56 Bilangan Kursus / Number of Courses

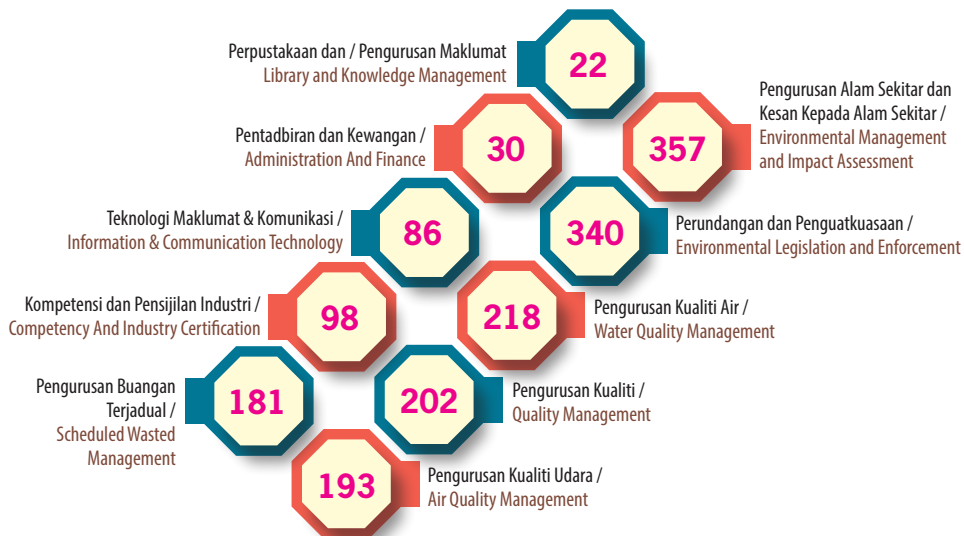


1,727

Bilangan Peserta / Number of Participants

10 (e) : Bilangan Peserta JAS mengikut Kategori Kursus

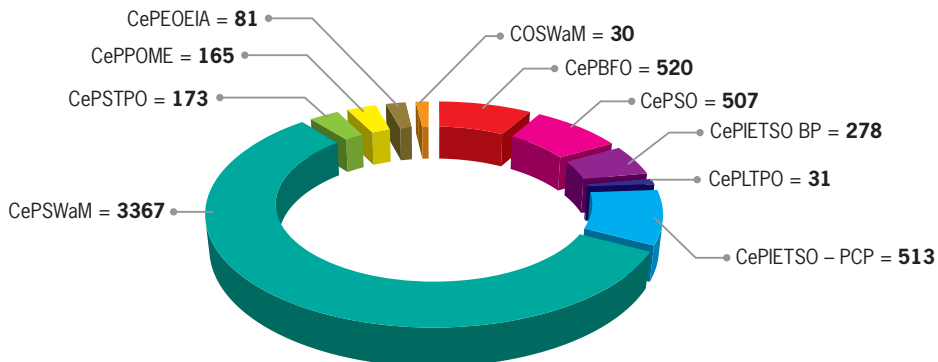
10 (e) : Number of DOE Participants by Course Category





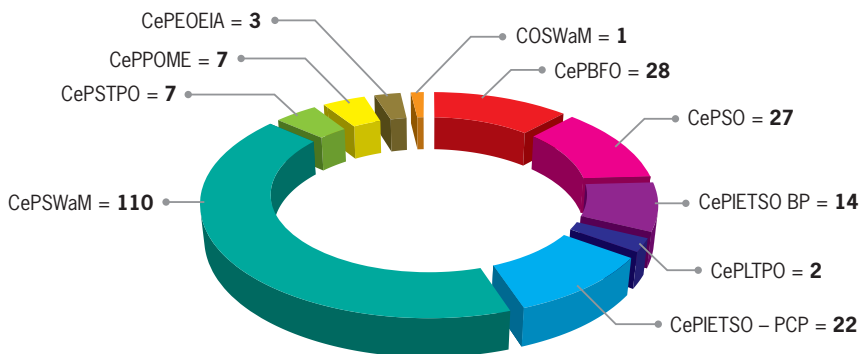
10 (f) : Pegawai Industri Dilatih mengikut Kursus Kompetensi, 2022

10 (f) : Number of Industry Personnel Trained According to Types of Competency Courses, 2022



10 (g) : Bilangan Kursus Pensijilan Industri yang Dianjurkan, 2022

10 (g) : Number of Industry Certification Courses Conducted, 2022



PETUNJUK / LEGEND

CePBFO - Course For Certified Environmental Professional in Bag Filter Operation

CePSO - Course For Certified Environmental Professional in Scrubbers' Operation

CePIETSO BP - Course For Environmental Professional in The Operation of Industrial Effluent Treatment Systems (Biological Treatment Process)

CePLTPO - Course For Certified Environmental Professional in Leachate Treatment Plant Operation

CePIETSO - PCP - Course For Certified Environmental Professional in The Operation of Industrial Effluent Treatment System (Physical Chemical Treatment Process)

CePSWaM - Course For Certified Environmental Professional in Scheduled Waste Management

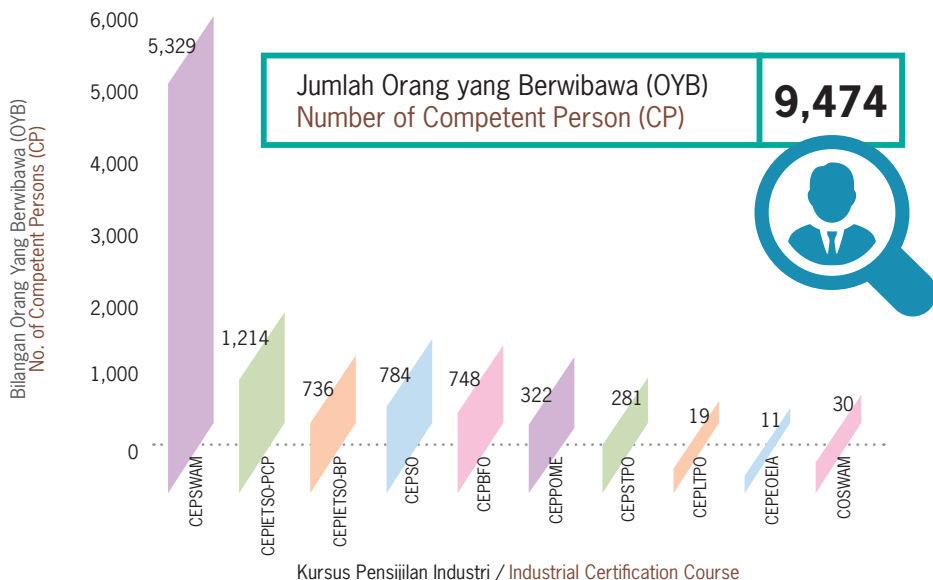
CePSTPO - Course For Certified Environmental Professional in Sewage Treatment Plant Operation

CePPOME - Course For Certified Environmental Professional in The Treatment Palm Oil Mill Effluent

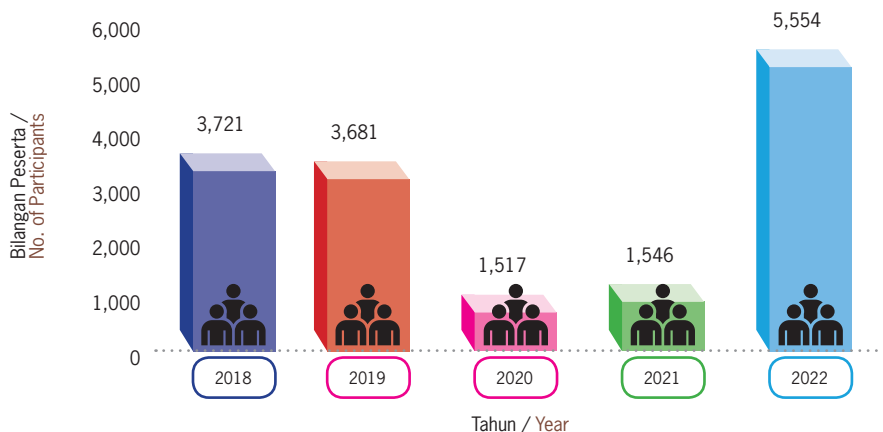
CePEOEIA - Certified Professional Environmental Officer in EIA Project



**10 (h) : Bilangan Orang yang Berwibawa (OYB)
Pegawai Industri di Malaysia mengikut Jenis Pensijilan pada 31 Disember 2022**
**10 (h) : Number of Competent Persons of Industry Personnel in Malaysia
According to Type of Certification as at 31st December 2022**

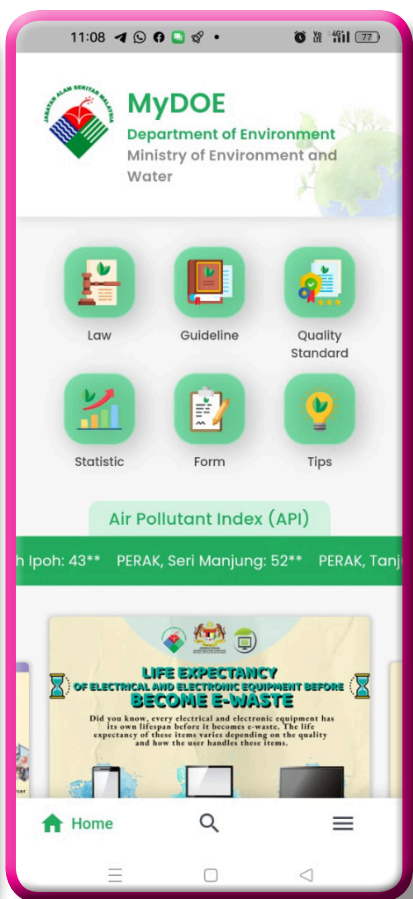
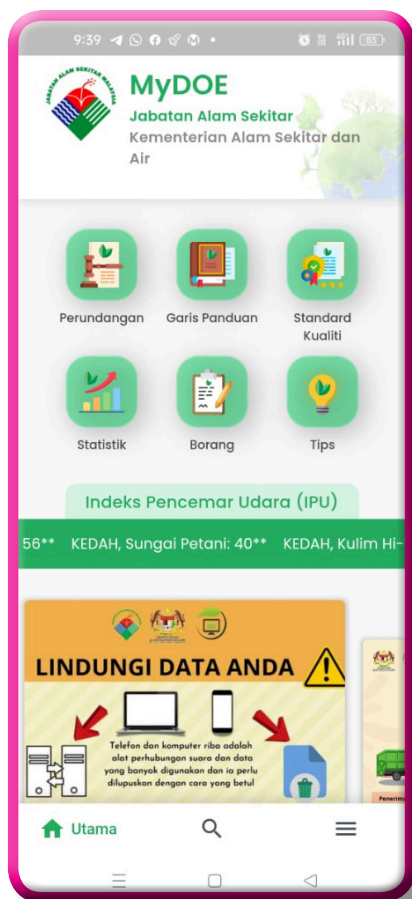


**10 (i) : Bilangan Kehadiran Peserta
Kursus Pegawai Industri bagi 5 Tahun Terkini (2018-2022)**
**10 (i) : Attendance of Industry Personnel as Course Participants
for the Last 5 Years (2018-2022)**





Aplikasi Mudah Alih MyDOE MyDOE Mobile Application



Halaman Utama Aplikasi Mudah Alih MyDOE / Main Page of MyDOE Mobile Application





Senarai Maklumat yang Diperolehi di MyDOE List of Information Provided in MyDOE



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- Hebahan / [Announcement](#)
- Bacaan IPU terkini / [Latest IPU](#)
- Carian / [Search](#)
- Menu Utama / [Main Menu](#)



Statistik / Statistics

- Laporan Kualiti Alam Sekeliling Terkini / [Latest Environmental Quality Report](#)
- Laporan Tahunan Terkini / [Latest Annual Report](#)
- Status Pematuhan Industri Terkini / [Latest Industry Compliance Status](#)



Perundangan / Legislation

- Akta / [Acts](#)
- Perintah / [Orders](#)
- Kaedah / [Rules](#)



Borang / Forms

- EIA dan Input Pembangunan / [EIA & Development Input](#)
- Kompetensi & Latihan / [Competency & Training](#)
- Permohonan Lesen / [Application for Licence](#)
- Borang Laporan / [Report Form](#)
- Permohonan Industri / [Industry Application](#)
- Borang Permohonan bagi Data Sungai, Air Tanah dan Marin / [Data Application for River, Marine and Groundwater](#)



Garis Panduan / Guideline

- Penilaian Kesan Kepada Alam Sekeliling (EIA) / [Environmental Impact Assessment \(EIA\)](#)
- Amalan Industri Hijau / [Green Industry Practices](#)
- Bahan Berbahaya / [Hazardous Substances](#)
- Air & Marin / [Water & Marine](#)
- Udara / [Air](#)



Standard Kualiti / Quality Standard

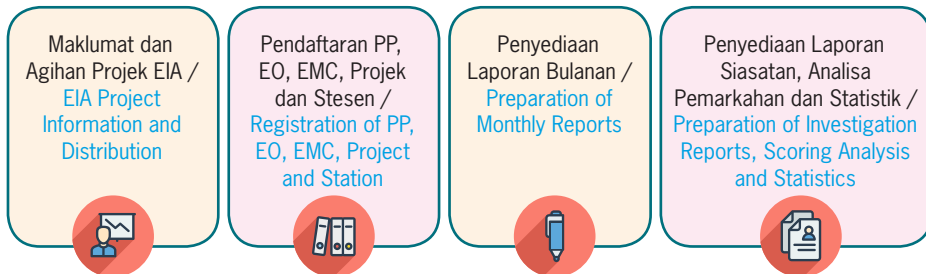
- Air / [Water](#)
- Udara / [Air](#)
- Kalkulator / [Calculator](#)



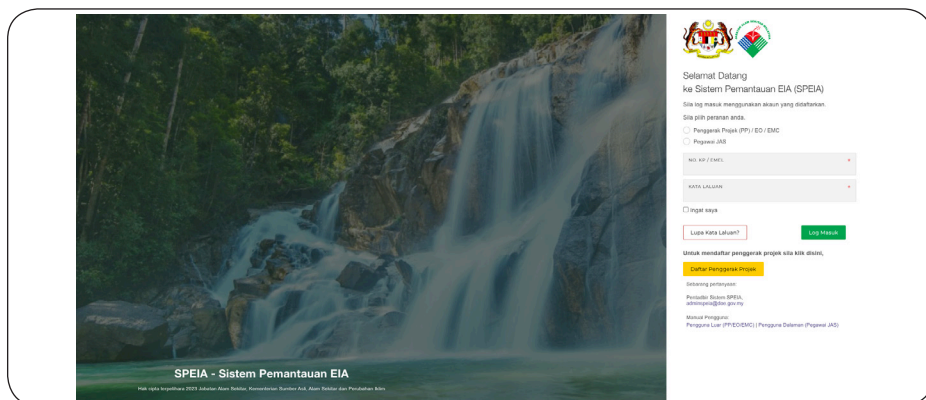
Tips Alam Sekitar / Environmental Tips



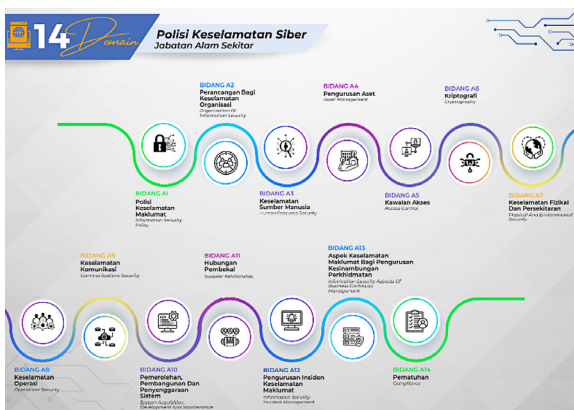
Proses Utama Sistem SPEIA / The main process of SPEIA System



Proses Utama Sistem SPEIA / The Main Process of SPEIA System



Muka Depan Sistem SPEIA / SPEIA System Landing Page



Polisi Keselamatan Siber Versi 1.0 / DOE Cyber Security Policy Version 1.0

**Sistem e-Pejabat / e-Pejabat System**Modul Tempahan Bilik Mesyuarat / *Meeting Room Booking*;Modul Tempahan Akaun Dalam Talian (webinar) / *Online Meeting Booking*;Modul Tempahan Kenderaan / *Office Car Booking*;Modul Pinjaman Peralatan ICT dan Teknikal / *ICT and Technical Equipment Booking*;Modul Aduan Kerosakan Peralatan ICT / *ICT Complaint*.Modul-modul yang Terdapat dalam Sistem e-Pejabat / *The Modules Included in the System***Kompodium Sistem Aplikasi JAS****Compendium of DOE Application Systems**

Kompodium Aplikasi JAS merupakan himpunan maklumat dalam bentuk infografik dan penerangan berdasarkan 14 sistem aplikasi yang telah ditetapkan iaitu / *The DOE Application System Compendium is a collection of information in the form of infographics and explanations based on 14 application systems that have been set. These application systems are as follows:*

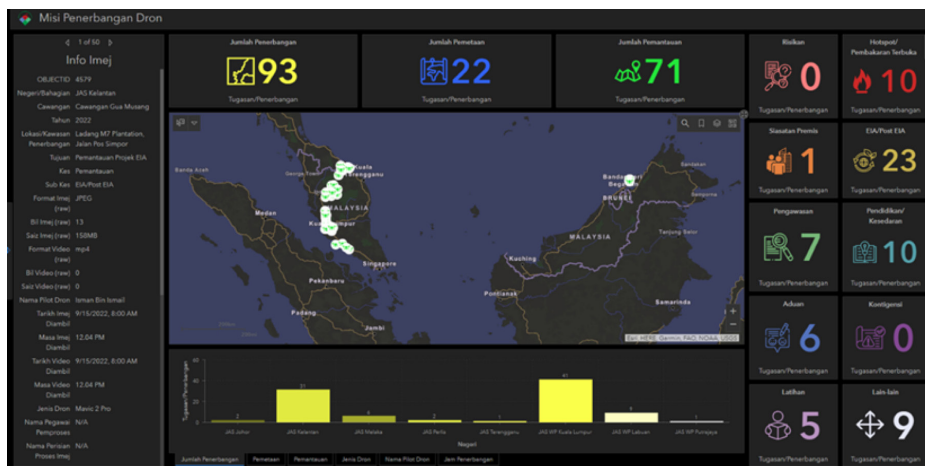
Sistem Aplikasi *Environmental Quality Monitoring (EQMP)* /
*Environmental Quality Monitoring (EQMP)*Sistem Elektronik Kawalan Alam Sekitar (eKAS) / *eKAS*Sistem *Electronic Scheduled Waste Management System (eSWIS)* /
*Electronic Scheduled Waste Management System (eSWIS)*Sistem *Online Environmental Reporting (OER)* / *Online Environmental Reporting (OER)*Sistem Pemantauan EIA (SPEIA) / *EIA Monitoring (SPEIA)*Sistem *Environmental Mainstreaming Tools (eMAINS)* /
*Environmental Mainstreaming Tools System (eMAINS)*Sistem *Vehicle Type Approval (VTA)* / *Vehicle Type Approvals (VTA)*Sistem *Hydrocarbon Fingerprinting (HyFiS)* / *Hydrocarbon Fingerprinting (HyFiS)*Sistem e-Aduan / *e-Aduan (e-Complaints)*Sistem *Malaysian Certified Environmental Practitioner (myCEP)* /
*Malaysian Certified Environmental Practitioner (myCEP)*Sistem *Environmental Spatial Data Repository (ESDR)* /
*Environmental Spatial Data Repository (ESDR)*Sistem Geospacial Alam Sekitar (GeoSpAS) / *Geospacial Alam Sekitar (GeoSpAS)*Sistem Rakan Alam Sekitar (MyRAS) / *Rakan Alam Sekitar (MyRAS) (Friends of the Environment)*Sistem e-PEJABAT / *e-PEJABAT*



Sistem Geospasial Alam Sekitar (GeoSpAS) Environmental Geospatial System (GeoSpAS)



Halaman Utama Sistem Aplikasi GeoSpAS / GeoSpAS Application System Front Page



Contoh Paparan Aplikasi Dashboard Misi Penerbangan Dron dalam Sistem GeoSpAS /
An Example of a Drone Flight Mission Dashboard Application Display in the GeoSpAS System



Sistem Aplikasi *Environmental Spatial Data Repository* (ESDR) *Environmental Spatial Data Repository* (ESDR) Application System



Pelan Reformasi JAS Inisiatif 21 & 22 - Pemantauan EIA Berkesan & Pemantapan Pengurusan Maklumat dan Data Spasial /
DOE Reform Plan Initiative 21 & 22 - Effective EIA Monitoring & Strengthening Spatial Information and Data Management



Platform untuk kemasukan, perkongsian Spasial data sharing dengan sistem-sistem Jabatan dan agensi kerajaan (tertakluk pada polisi Rahsia Rasmi) /
Platform for entry, and sharing of Spatial data with Departments and government agency systems (subject to the Official Secret policy)



Menyelesaikan masalah pengurusan maklumat konvensional kepada sistem digital bagi laporan dan data EIA secara sistematik. Penyelesaian isu ruang penyimpanan dokumen dan perkongsian antara negeri dan kemudahan capaian data /
Solving the problem of systematic management of information conversion to a digital system for EIA reports and data. To resolve issues of document storage space and interstate sharing and data access facilities



Menyediakan kemudahan bahan siasatan dan pengajaran/latihan secara digital yang lebih holistik dengan mengambil kira tahap kemahiran semasa dan pelan latihan yang diperlukan oleh Jabatan /
Provide a more holistic digital research and teaching/training material facility taking into account the current skill level and the training required by the Department



Menyediakan historical data bagi tujuan analisis dan pelaporan data alam sekitar /
Provide historical data for the purpose of environmental data analysis and reporting



Pelan Strategik Pendigitalan Jabatan Alam Sekitar Tahun 2021-2030

Department of Environment Digitalisation Strategic Plan 2021-2030



MISI / MISSION

Pendigitalan pengurusan alam sekitar ke arah pembangunan lestari
Digitization of environmental management towards sustainable development



VISI / VISION

Memperkasakan pendigitalan untuk penyampaian perkhidmatan alam sekitar yang komprehensif
Empowering digitization for comprehensive environmental service delivery

T1

Pemantapan perkhidmatan digital berpacuan data yang komprehensif dan inklusif /
Strengthening comprehensive and inclusive data-driven digital services

S1. Pengukuhan aplikasi digital secara bersepadu dan end to end /
Strengthening digital applications in an integrated and end to end manner

S2. Pembangunan aplikasi digital secara bersepadu /
Integrated digital application development

S3. Pembangunan analitis data raya (ADR) /
Development of big data analytics (ADR)

S4. Penerokaan ruang dan peluang insiatif data /
Exploration of data initiative space and opportunities

S5. Pengukuhan dan pemanfaatan data geospasial /
Strengthening and utilisation of geospatial data

S6. Pemerkasaan aplikasi geospasial /
Empowerment of geospatial applications

20

Program / Program

43

Aktiviti / Activity

T2

Pengukuhan Infrastruktur ICT dan keselamatan /
Strengthening ICT Infrastructure and security

S7. Pengukuhan infrastruktur ICT /
Strengthening ICT infrastructure

S8. Pengukuhan kesinambungan perkhidmatan /
Strengthening service continuity

S9. Pemerkasaan keselamatan siber /
Cyber security empowerment

S10. Adaptasi Teknologi baharu yang relevan (emerging technologies) /
Adaptation of new relevant technologies (emerging technologies)

15

Program / Program

34

Aktiviti / Activity

T3

Pemantapan tadbir urus digital yang komprehensif /
Strengthening comprehensive digital governance

S11. Pengukuhan Tadbir Urus Digital /
Strengthening Digital Governance

S12. Pematuhan dasar dan polisi ICT /
Compliance with ICT policy and policy

S13. Peningkatan program kolaborasi strategik /
Improvement of strategic collaboration programs

7

Program / Program

17

Aktiviti / Activity

T4

Pemerkasaan Kompetensi dan Pembudayaan Digital /
Competency Empowerment and Digital Culture

S14. Pemantapan Pembudayaan Digital /
Strengthening Digital Culture

S15. Peningkatan kompetensi digital melalui latihan yang komprehensif /
Improvement of digital competence through comprehensive training

S16. Pewujudan pakar analitis data alam sekitar /
Creation of environmental data analytics experts

8

Program / Program

19

Aktiviti / Activity



Pelan Analitik Data Raya Jabatan Alam Sekitar Tahun 2021-2030 Department of Environment Data Analytics Plan 2021-2030

Memperkasakan penyampaian perkhidmatan JAS dengan memaksimumkan potensi data raya /
Empowering DOE service delivery by maximizing the potential of big data

DASAR / POLICY

RMKe-12

Analitik Data Raya Nasional
National Big Data Analytics

WKE 2030

PSPSA 2021-2025
PSPSA 2021-2025

aDRSA

Pelan Strategik JAS 2021-2030
DOE Strategic Plan 2021-2030

PERKHIDMATAN UTAMA / PRIMARY SERVICES

- Penguatkuasaan Alam Sekitar / Environmental Enforcement
- Pengawasan Alam Sekitar / Environmental Surveillance
- Pengurusan Buangan Terjadual & Bahan Berbahaya / Management of Scheduled Waste & Hazardous Materials
- Komunikasi Strategik / Strategic Communication
- Pembangunan dan Penilaian Kesan kepada Alam Sekeliling / Development and Environmental Impact Assessment
- Kompetensi Alam Sekitar / Environmental Competence

ANALITIK DATA RAYA JAS / DATA ANALYTICS OF DOE

TERAS 1: PEMBANGUNAN PENYELESAIAN ANALITIK DATA RAYA YANG HOLISTIK / CORE 1: DEVELOPMENT OF HOLISTIC DATA ANALYTICS SOLUTIONS

SMART ENVIRO /
SMART ENVIRO
Hasil Analitik /
Analytical Results

- Analisis Deskriptif / Descriptive Analysis
- Analisis Diagnostik / Diagnostic Analysis
- Analisis Prediktif / Predictive Analytics
- Analisis Preskriptif / Prescriptive Analysis
- Analisis Kognitif / Cognitive Analysis

TERAS 2: PEMANTAPAN TADBIR URUS DAN KEUPAYAAN DIGITAL / CORE 2: STRENGTHENING OF DIGITAL GOVERNANCE AND CAPABILITIES

TADBIR URUS DAN DASAR /
GOVERNANCE AND POLICY
Tadbir Urus / Governance

PENCETUS MINDA /
MIND TRIGGER
Tadbir Urus / Governance

MANUSIA DAN BAKAT /
PEOPLE AND TALENT
Tenaga Pakar / Expert Energy

TERAS 3: PENINGKATAN KERJASAMA DAN KETERSEDIAAN DATA / CORE 3: INCREASED COLLABORATION AND DATA AVAILABILITY

INTEGRASI SISTEM APLIKASI JAS /
DOE APPLICATION SYSTEM INTEGRATION
Atribut Data / Data Attributes

- Data Dalaman / Luaran / Internal / External Data
- Data Berstruktur / Tidak Berstruktur / Structured / Unstructured Data

INDUSTRI SEBAGAI PEMACU INOVASI TERBUKA /
INDUSTRY AS A DRIVER OF OPEN INNOVATION
Strategi Organisasi / Organizational Strategy

TERAS 4: PENGUKUHAN INFRASTRUKTUR ICT / CORE 4: STRENGTHENING OF ICT INFRASTRUCTURE

PLATFORM TEKNOLOGI / TECHNOLOGY PLATFORM
Implimentasi Teknologi / Technology Implementation



VISI / VISION

Memperkasa penyampaian

perkhidmatan JAS dengan memaksimumkan potensi data raya /

Strengthen the delivery of DOE services by maximizing the potential of big data

TERAS / CORE			
1 Pembangunan Penyelesaian Analitik Data Raya yang Holistik / <i>Development of Holistic Big Data Analytics Solutions</i>	2 Pemantapan Tadbir Urus dan Keupayaan Digital / <i>Governance Considerations and Digital Capabilities</i>	3 Peningkatan Kerjasama dan Ketersediaan Data / <i>Improved Collaboration and Data Availability</i>	4 Pengukuhan Infrastruktur ICT / <i>ICT Infrastructure Strengthening</i>
15 STRATEGI / 15 STRATEGY			
S1 Pengurusan Komponen Kualiti Air, Udara dan Bahan Berbahaya / <i>Management of Water, Air and Hazardous Materials Quality Components</i>	S1 Pengukuhan Pengurusan Sumber Data / <i>Strengthening Data Resource Management</i>	S1 Pengukuhan Nilai Data / <i>Data Value Reinforcement</i>	S1 Pengurusan Storan Data Raya / <i>Big Data Storage Management</i>
S2 Pemeriksaan Pelaksanaan <i>Environmental Impact Assessment (EIA) / Empowering the Implementation of Environmental Impact Assessment (EIA)</i>	S2 Pemeriksaan dan Perkembangan Modal Insan / <i>Empowerment and Development of Human Capital</i>	S2 Penyelarasan Mekanisme Penyediaan Data / <i>Coordination of Data Provision Mechanism</i>	S2 Pengurusan Rangkaian dan Komunikasi Data / <i>Network Management and Data Communications</i>
S3 Penganalisan Sentiment dan Kesedaran Awam Alam Sekitar / <i>Sentiment Analysis and Environmental Public Awareness</i>	S3 Peluasan dan Pembudayaan Inovasi / <i>Expansion and Cultivation of Innovation</i>	S3 Pemerolehan Data Luaran / <i>External Data Acquisition</i>	S3 Pemanfaatan Platform Intergrasi Data / <i>Utilization of Data Integration Platforms</i>
S4 Pemprofilan Sumber Manusia / <i>Human Resource Profiling</i>			S4 Pengukuhan Persekitan Keselamatan Data / <i>Strengthening of Data Security</i>
			S5 Pembangunan Platform Keputusan (Decision Platform) / <i>Decision Platform Development (Decision Platform)</i>
12 INISIATIF / <i>INITIATIVE</i>	13 INISIATIF / <i>INITIATIVE</i>	6 INISIATIF / <i>INITIATIVE</i>	16 INISIATIF / <i>INITIATIVE</i>
45 PELAN TINDAKAN / <i>ACTION PLAN</i>	60 PELAN TINDAKAN / <i>ACTION PLAN</i>	23 PELAN TINDAKAN / <i>ACTION PLAN</i>	53 PELAN TINDAKAN / <i>ACTION PLAN</i>

Pelan Strategik Analitik Data Raya Jabatan Alam Sekitar
Big Data Analytics Strategic Plan of the Department of Environment



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