

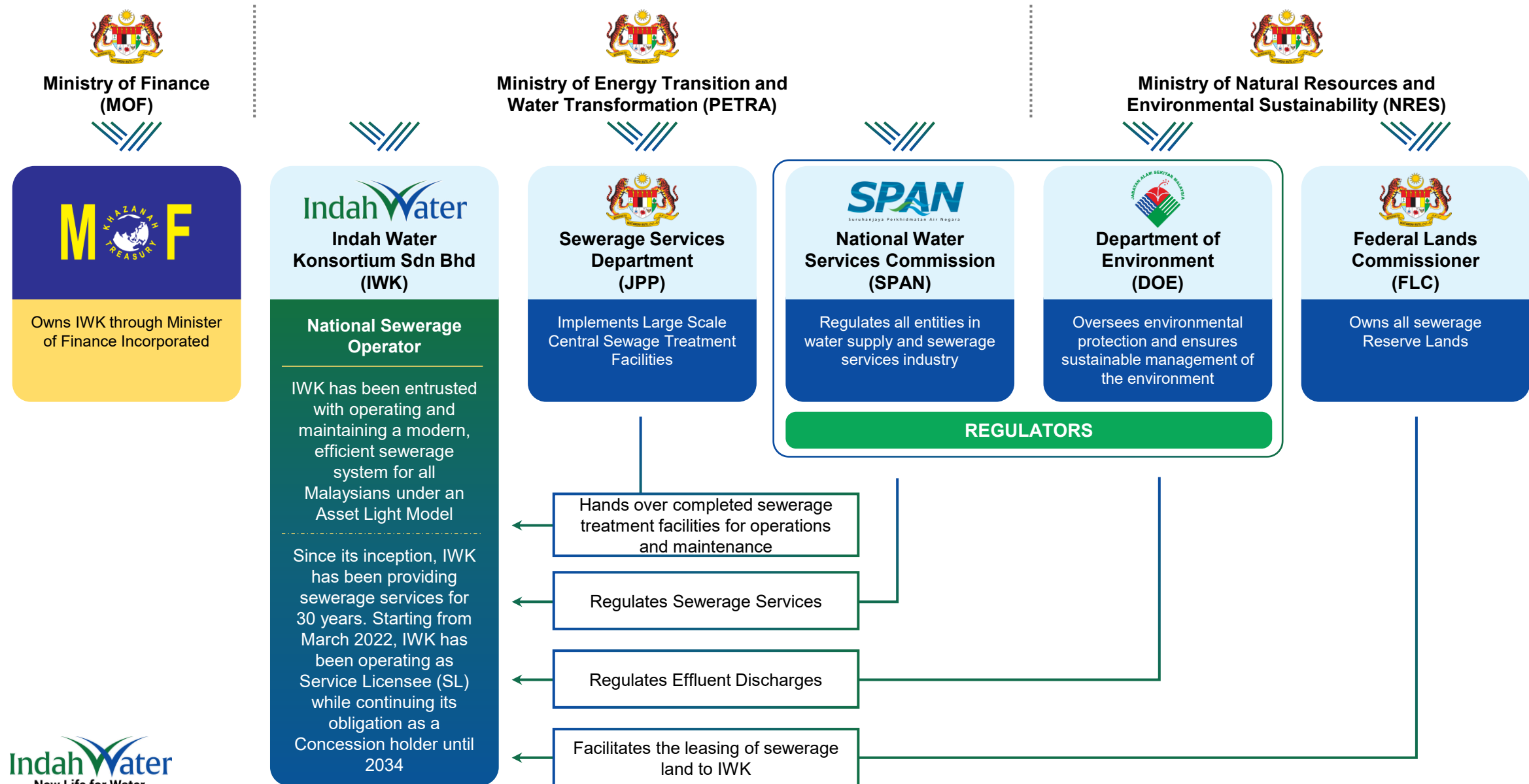


PROGRAM TOWNHALL FORUM AIR 2026

“IWK’s Roles and Responsibilities”

Ir. Mohd Taufik Salleh
COO, IWK
4 July 2026, Kota Bharu

IWK's Corporate Structure and Stakeholders



Our Business Activities



Operation And maintenance of Public Sewerage Systems

Provides scheduled operation and maintenance of public STPs, NPSs and sewers within our service areas



Sewerage Capital Works and Refurbishment Management

Provides project management and monitor capital works for both Government & SPAN funded sewerage projects and IWK's internal projects



Sewerage Planning, Sewerage Asset Data Monitoring and Certifying Services

Provides certification services: evaluating, certifying and approving of sewerage facilities applications on behalf of SPAN



Sewerage Technical, Operational And Environment Trainings / Consultancy Services

Provides consultancy services and delivers professional technical and non-technical training on sewerage planning, engineering and the operation and maintenance of sewerage systems through ASTRICE



Treated Effluent Supply and Water Reclamation Project

Supplies of treated effluent and collaborates with Water Operators on water reclamation projects for non-potable use in various industries



Other Businesses and Green Initiatives

Implements non-core business (i.e., Eco Park, Private STP O&M Services, land rental) and green initiatives (i.e., organic fertiliser, biogas and solar projects) to supplement the main income stream and achieve cost savings



Septage Management and Desludging Services

Performs scheduled desludging and demand desludging services for septic tank users within our service areas

IWK AT A GLANCE

Service Coverage, Asset and Resources

11

States & 3 Federal Territories

101

out of 152 Local Authorities

33.35 mil

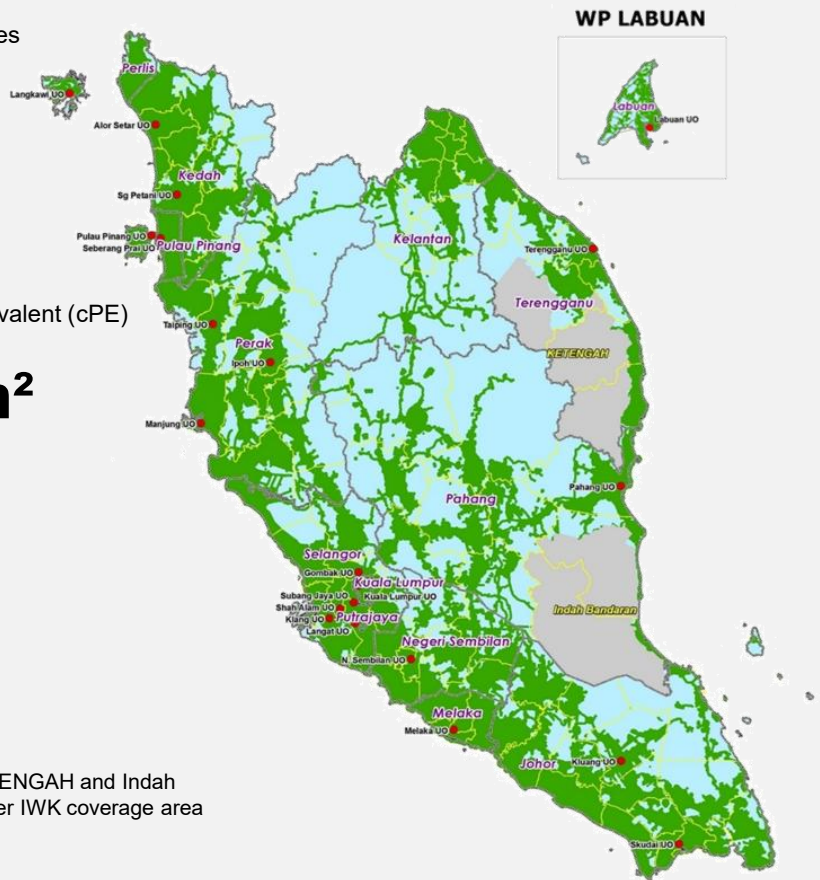
Connected Population Equivalent (cPE)

81,954 km²

Area of service coverage

Legend

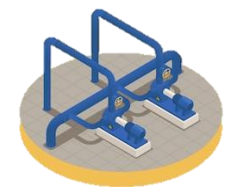
- Unit Office (UO)
- State Boundary
- LA Boundary
- LA Service Area
- Non-LA Service Area
- Sabah, Sarawak, KETENGAH and Indah Bandaran are not under IWK coverage area



7,767
Sewage Treatment
Plants (STP)



1
Water Reclamation
Plant (WRP)



1,567
Network Pump
Stations (NPS)



23,550
Pipelines Length
(km)



3,438
Indahans



629
Vehicles



22
Unit
Offices



59
Reporting
Centers



5 Laboratories



1 Training
Center



2 Eco Parks



1 Research
Center

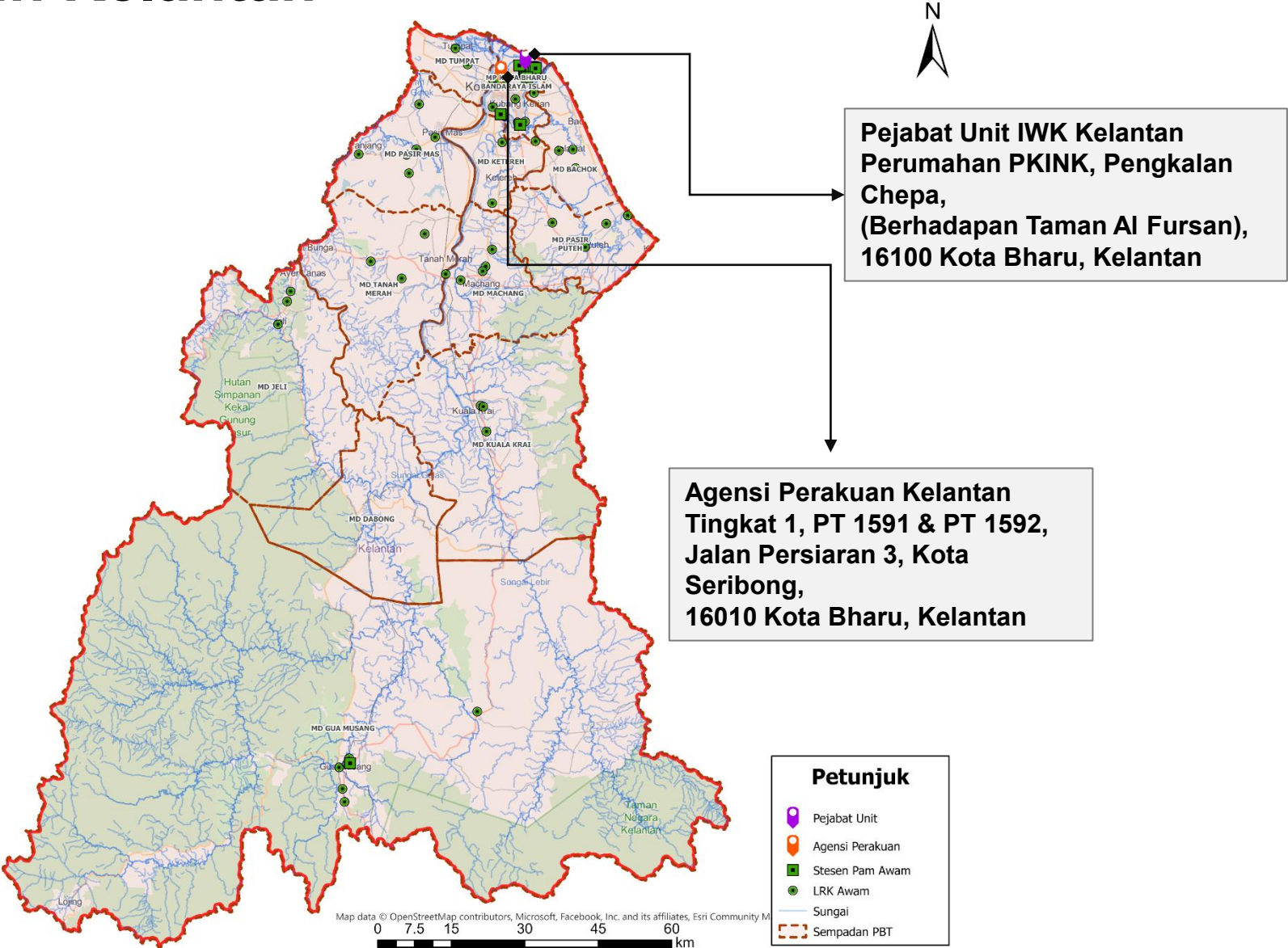


1 Gallery

Sewerage Management in Kelantan

No	Jenis Aset	No	PE
1	LRK Serantau	-	-
2	LRK Awam	56	101,613
3	Stesen Pam Awam	16	20,966
4	Rangkaian Paip	110	-
5	Tangki Septik Komunal	239	33,263
6	Tangki Septik Individu*	5,392	26,960
7	Sistem Tradisional*	10,235	51,175

*Nota:-
Bilangan IST dan PF adalah berdasarkan rekod yang pernah menerima perkhidmatan nyahenapceamar oleh IWK*

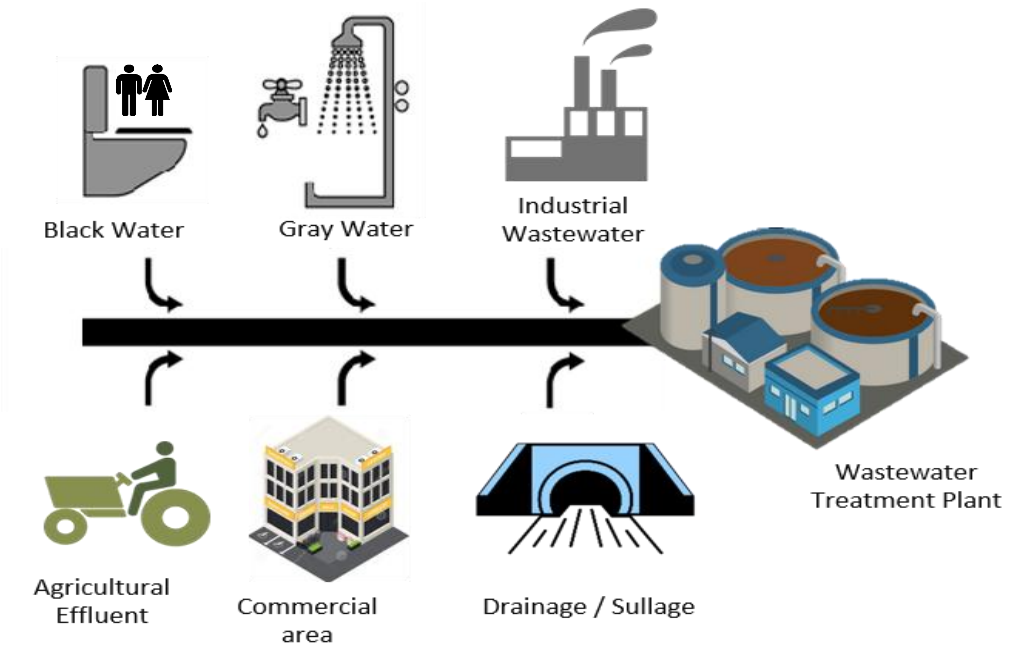


Sewage and Wastewater

SEWAGE (or domestic wastewater or municipal wastewater) is a type of wastewater that is produced from a community of people.

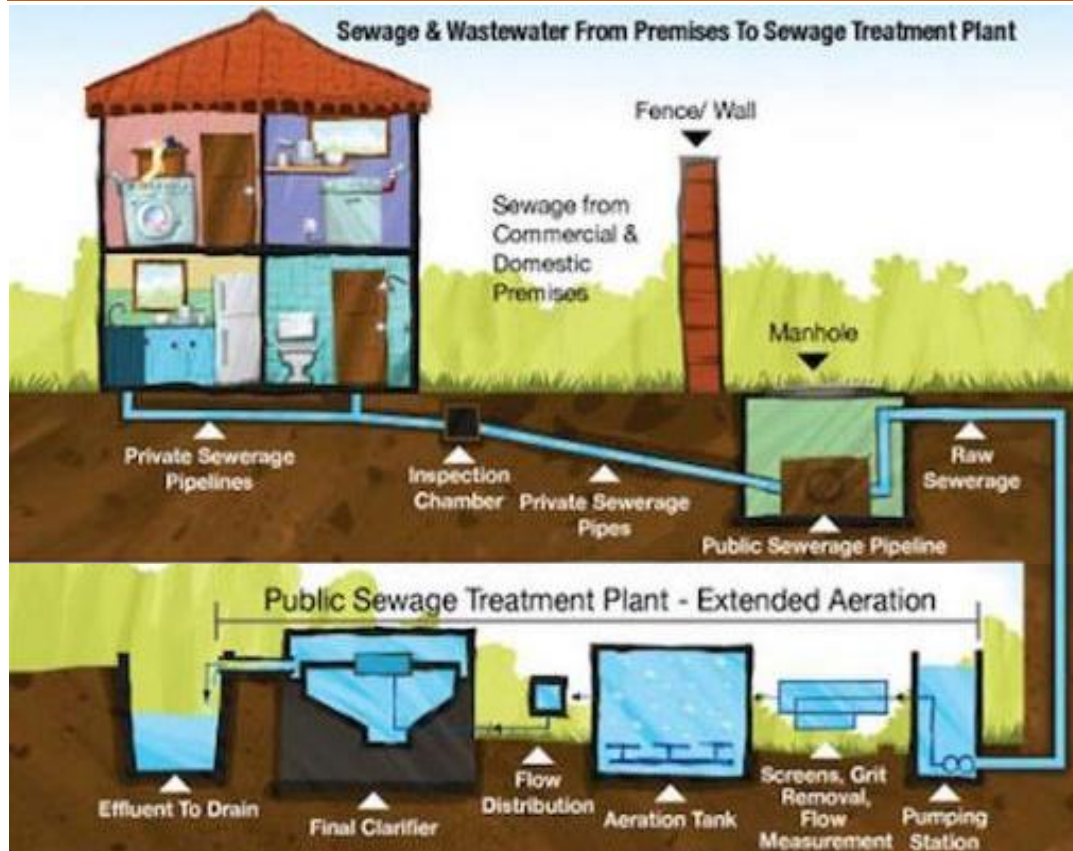


WASTEWATER is used water from any combination of domestic, industrial, commercial or agricultural activities, surface runoff or storm water



Type of Sewage Treatment

OFF-SITE TREATMENT FACILITY (Connected Sewerage System)



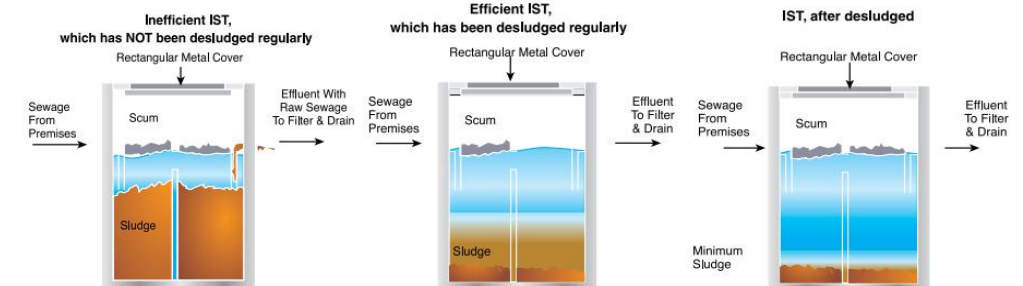
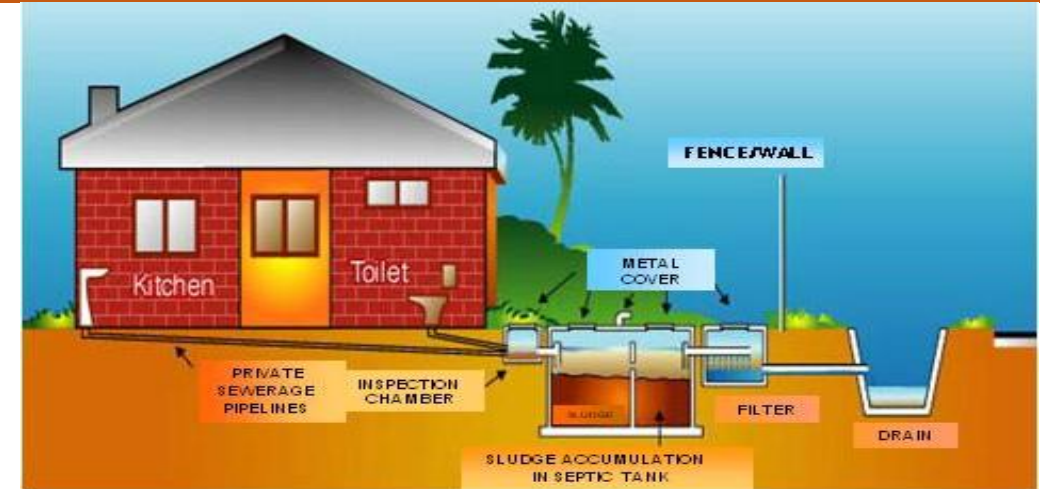
PUBLIC SEWAGE TREATMENT PLANTS



PRIVATE PLANTS



ON-SITE TREATMENT FACILITY (Septic Tanks & Pour Flush System)



SEPTIC TANKS



PRIMITIVE SYSTEMS



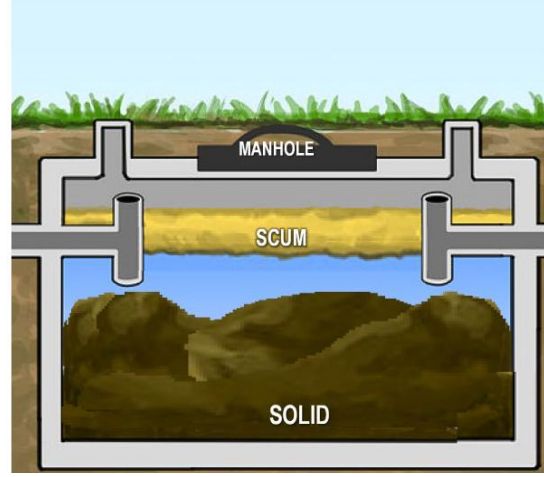
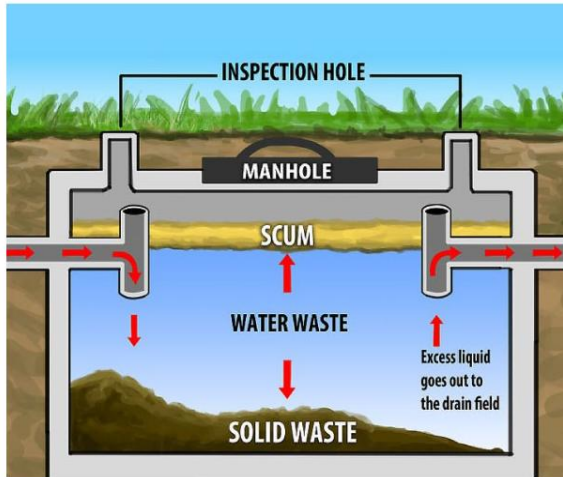
Scheduled Desludging for On-Site Treatment Facility

1. At present there are more than 1.4 mil ISTs, 3,454 CST and more than 1.4 mil pour flush within IWK service area across 101 local authorities
2. Scheduled desludging is crucial for protecting the rivers and public from waterborne diseases such as typhoid and hepatitis.
3. Since 2021 under **Water Services Industry (Desludging Services) Regulation 2021**, it has been made mandatory for all owners, management corporations, or occupants of premises using Individual Septic Tank to schedule regular desludging activities.
4. Scheduled desludging services are performed **every two years for ISTs under local authority areas, whereas ISTS outside these areas are serviced every three years.**

EFFICIENT SEPTIC TANK

VS

INEFFICIENT SEPTIC TANK



Akta Industri Perkhidmatan Air 2006

(Seksyen Berkaitan Nyahenap Cemar)



UNDANG-UNDANG
MALAYSIA

CETAKAN SEMULA

Akta 655

AKTA INDUSTRI
PERKHIDMATAN AIR 2006

Mengandungi segala pindaan hingga 1 Ogos 2006

SEKSYEN 44	Pemegang lesen perkhidmatan yang mengendalikan dan menyenggarakan suatu sistem pembetungan awam hendaklah menyahenap cemar tangki septik di dalam kawasan perkhidmatan pembetungan dari semasa ke semasa sebagaimana yang ditetapkan
SEKSYEN 47	Pemaju hendaklah menyerahkan sistem bekalan air atau sistem pembetungan pembangunan baru kepada pemegang lesen perkhidmatan.
SEKSYEN 65 (1)	Pemilik, perbadanan pengurusan atau penghuni mana-mana premis yang mempunyai sistem tangki septik hendaklah memastikan tangki septik dinyahenap cemar oleh pemegang lesen perkhidmatan sebagaimana yang ditetapkan.
SEKSYEN 65 (3)	Pemilik, perbadanan pengurusan atau penghuni mana-mana premis yang menggunakan tangki septik boleh didenda tidak lebih RM50,000.00 jika tangki septik tidak dikosongkan enapcemar najis (sludge) secara berjadual untuk menjamin kecekapan tangki septik berkenaan

Certifying Agencies & Development Control Section

PREFACE

Indah Water Konsortium (IWK) was appointed by SPAN as the Sewerage Certifying Agency (CA) under Section 174 of the Water Services Industry Act 2006 (Act 655).

RESPONSIBLE

Effective from 1 January 2008, IWK has been responsible for sewerage works approvals throughout Peninsular Malaysia and Labuan, with its jurisdiction extended to Kelantan in 2021 (formerly CA Majaari).

**CERTIFYING
AGENCY**
11 OFFICES
NATIONWIDE



SCOPE

In accordance to WSIA 2006 Clause 174, SPAN has appointed CA for the purposes of:

- (a) Approving plans, specifications or detailed designs with respect to the construction of the water supply system, sewerage system, septic tank individual internal sewerage piping and common internal sewerage piping.
- (b) Certifying compliance with technical standards made under any subsidiary legislation made under this Act.



Sewerage Works Certification

Review and approve Planning (PDC/1) and Design (PDC/2) for sewerage works.



Site Inspection

Arrange and conduct site inspection; Intermediate (PDC/7) and Final (PDC/8)



Facilitate Take Over Of Public Sewerage System

Facilitate in handing over of Public System from Developer to Service Licensee (SL)



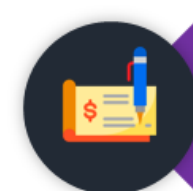
Technical Appeal Committee

Review and decision making for Category B (technical) appeal through Regional appeal committee. Frequency meeting : minimum once a month



Meetings

On behalf of SPAN, attend technical meetings conducted by Government/ Govt. Agencies; e.g. : OSC meeting



Accept And Submit Sewerage Capital Contribution Fund (SCC) Payment From Developer/ Project Proponent

Accept and submit SCC payment to SPAN within 3 days LoS

IWK Resource Recovery Portfolio

Closing the loop for a sustainable and circular future



IWK transforms sewage into valuable resources that create environmental, economic and social value.



BIOEFFLUENT

>6,000 MLD

Treated to high standards for safe discharge



Recycle Water (non potable use)



BIOSOLIDS

>100,000 tons/year

Treated and transformed into valuable products



Recover Nutrients for Agriculture & Landscaping



BIOGAS

>6,000 m³/day

Captured and converted into clean energy



Renewable Energy

OUR COMMITMENT



TURNING WASTE INTO RESOURCES

Driving a circular economy



SUPPORTING A SUSTAINABLE FUTURE

For communities and the environment



INNOVATION & COLLABORATION

Partnering for a better tomorrow



DELIVERING IMPACT



Reduce Freshwater Demand



Recover Nutrients and Support Food Security



Generate Renewable Energy



Reduce GHG Emissions



Create Economic and Social Value

ALIGNED WITH UN SDGs



SUSTAINABLE DEVELOPMENT GOALS

Transformation of Sanitation System in Malaysia



The sewerage systems in Malaysia has improved significantly within a span of over 7 decades

Know more about our business achievements
and sustainability initiatives through our

Sustainability Report



The report is available for download via the code above or via
<https://www.iwk.com.my/sustainability-report>

THANK YOU

TODAY, TOMORROW AND BEYOND

Sustainability
Report 2023

