Implementing the Strategic Action Programme for the South China Sea and Gulf of Thailand (SCS SAP) Project

Second Meeting of the Regional Working Group on Land-Based Pollution (RWG-LBP)

11-12 November 2024, Shenzhen, China

Status of Preparation and Implementation of Land-Based Pollution Activities

Cambodia

Chandath Him, Department of Water Quality Management/MOE




Updates on LbP related activities & achievements for 2023-2024 (following the 1st RWG-LbP meeting)

Legal & institutional matters (new or revised/updated policies, regulation and institutional/financial arrangement…)

➢ Circular Strategy on Environment (2023-2028)

- Core Strategy (Enhancing Policy, Establishing Digital Administration, Broadening Extension)
- Clean (Control pollution, Modernizing pollution measurement system, improving EIA), Green (Intensifying tree planting movement, improving protected area management, enhancing local communities 'livelihood), Sustainable (Applying compliance, Extending cooperation, strengthening coordination)

➢ Draft the government circular on measures to prevent and reduce public water pollution (expected to issues in 2025):

- 9 measures targeted water pollution sources, promote research and collaboration, improve water quality monitoring, public awareness and stakeholder engagement

Updates on LbP related activities & achievements for 2023-2024 (following the 1st RWG-LbP meeting)

Legal & institutional matters (new or revised/updated policies, regulation and institutional/financial arrangement…)

https://www.moe.gov.kh/wp-content/uploads/2023/11/Circular-Stratesy%E2%80%8B-for-Environment-2023-2028-1.pdf

Updates on LbP related activities & achievements for 2023-2024 (following the 1st RWG-LbP meeting)

Monitoring status and trends of changes, specially in identified hot spots and monitoring stations

ល.រ	ចំណុចយកសំណាក	pH	DO (mg/l)	TSS (mg/l)	BOD_5 (mg/l)	COD_{Mn} (mg/l)	NO_3^{-1}-N (mg/l)	TN (mg/l)	TP (mg/l)	WQI*
ទន្លេចតុមុខ-កោះពេជ្រ		7.49	6.7	5.67	1.25	5.29	0.67	0.55	0.095	92
ទន្លេបាសាក់										
១	កំពង់ផែវត្តពោធិ៍ព្រឹក្ស	6.98	5.95	52.00	1.75	3.96	0.87	1.72	0.14	100
២	កំពង់ចម្លងតាខ្មៅ	6.90	5.85	72.50	1.45	2.16	0.87	2.05	0.15	76
ទន្លេសាប										
១	កំពង់ផែភ្នំពេញ	7.30	6.45	39.50	0.45	4.34	0.78	1.12	0.11	100
២	ស្ពានព្រែកក្តាម	7.19	6.65	117.50	1.35	4.51	0.69	1.18	0.13	84
៣	កំពង់ផែទេសចរណ៍	7.05	5.50	117.00	2.10	6.27	1.13	1.02	0.19	79
បឹងទន្លេសាប										
១	ឆ្នុកទ្រូ	6.98	3.70	110.00	1.40	6.15	1.17	1.44	0.25	69
២	កំពង់លួង	7.02	4.00	100.00	5.12	8.19	1.90	1.13	0.51	66
៣	កំពង់ថ្មើល	6.94	4.50	108.00	4.20	7.45	1.30	1.41	0.29	67
ទន្លេមេគង្គ										
១	បឹងកុក (កំពង់ចាម)	7.77	5.60	3.00	0.50	3.52	0.15	0.16	0.00	100
២	ស្ពានគីហ្សណា	7.81	4.80	1.00	1.12	1.96	0.12	0.40	0.00	100
៣	ស្ពានកោះប៉ែន	8.07	6.30	2.00	0.40	2.35	0.10	0.11	0.00	100
៤	កំពង់ចម្លងផ្លូវគ្រឹត	7.00	6.20	62.50	0.90	4.31	1.02	1.40	0.17	76
៥	ស្ថានីយបូមទឹកជ្រោយចង្វារ	7.66	7.15	24.00	0.65	1.47	1.36	0.28	0.30	80
ស្តង់ដារ		6.5-8.5	>4	<100	<6	<8	<1.2	<0.15	<1.2	

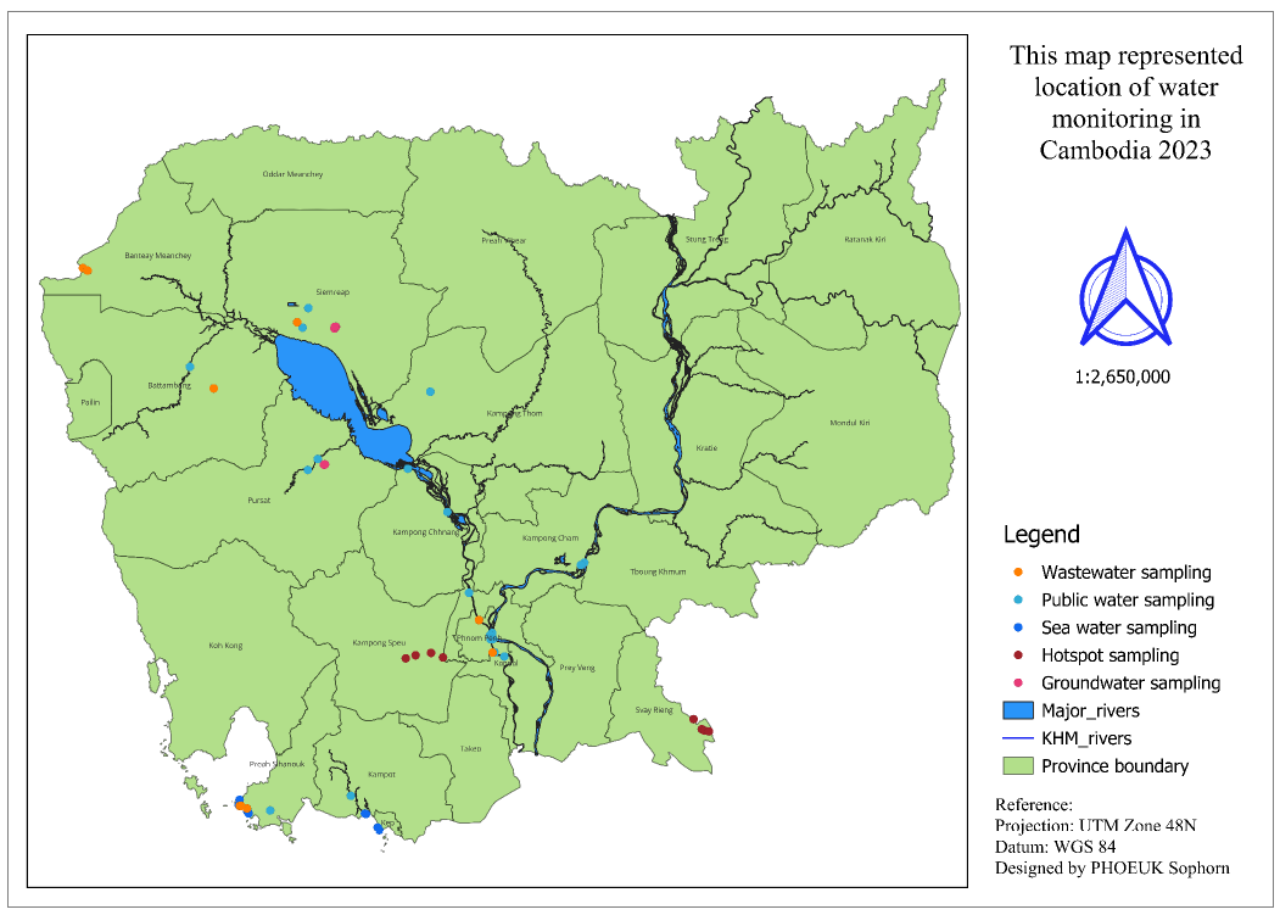
ល.រ	បរិយាយ	pH	DO (mg/l)	TSS (mg/l)	COD_{OH} (mg/l)	TN (mg/l)	TP (mg/l)	NO_3^{-1}-N (mg/l)
១	ឆ្នេរអូរត្រេះ	7.56	5.81	19.26	1.22	0.81	0.03	0.12
២	ឆ្នេរអូរឈើទាល	7.15	5.22	9.33	1.54	0.90	0.04	0.15
៣	ឆ្នេរឯកភ្ញៀ	7.11	5.52	7.95	1.14	1.16	0.02	0.12
៤	កំពង់ផែស្វយ័តខេត្តព្រះសីហនុ	7.07	5.94	8.08	1.95	0.69	0.01	0.14
៥	ស្ពានថ្មចាស់ក្រុងកំពត	6.75	4.32	21.42	1.69	0.39	0.03	0.10
៦	កំពង់ផែកំពត	6.87	4.98	10.91	1.98	0.41	0.07	0.11
៧	ឆ្នេរលេងទឹកកែប (សិលាចាំប្តី)	7.06	6.24	56.65	1.54	1.10	0.08	0.06
៨	ផ្សារក្តាម	7.01	6.48	26.26	1.32	0.46	0.03	0.14
ស្តង់ដារ*		7-8.3	>4	<80	<8	<2	<0.09	0.06

ក. សន្ទស្សន៍គុណភាពទឹកសម្រាប់ការអភិរក្សជីវៈចម្រុះ ៖

សន្ទស្សន៍គុណភាពទឹក (WQI)	ចំណាត់ថ្នាក់	ពណ៌	ពិពណ៌នា
៩៥ ≤ QWI ≤ ១០០	ល្អណាស់		គុណភាពទឹកមិនទទួលរងការបំពុល ដែលផ្តល់លក្ខខណ្ឌល្អប្រសើរដល់ការលូតលាស់របស់ជីវៈចម្រុះ
៨០ ≤ QWI < ៩៥	ល្អ		គុណភាពទឹកស្ទើរតែមិនទទួលរងការបំពុល ដែលផ្តល់លក្ខខណ្ឌសមស្របដល់ការលូតលាស់របស់ជីវៈចម្រុះ
៦៥ ≤ QWI < ៨០	មធ្យម		គុណភាពទឹកទទួលរងការបំពុលតិចតួចដែលជីវៈចម្រុះអាចរស់នៅបាន
៤៥ ≤ QWI < ៦៥	អន់		គុណភាពទឹកទទួលរងការបំពុលញឹកញាប់ ដែលបង្កឱ្យប៉ះពាល់ដល់ជីវៈចម្រុះ ពិសេសពួកងាយរងការប៉ះពាល់
QWI < ៤៥	អន់ណាស់		គុណភាពទឹកទទួលរងការបំពុលជាប្រចាំបង្កឱ្យប៉ះពាល់ដល់ការរស់នៅ និងការលូតលាស់របស់ជីវៈចម្រុះក្នុងកម្រិតធ្ងន់ធ្ងរ

Updates on LbP related activities & achievements for 2023-2024 (following the 1st RWG-LbP meeting)

Monitoring status and trends of changes, specially in identified hot spots and monitoring stations (Con't)



Updates on LbP related activities & achievements for 2023-2024 (following the 1st RWG-LbP meeting)

Monitoring status and trends of changes, specially in identified hot spots and monitoring stations (Con't)

Data/Database

- **Monitoring Stations:**

While Cambodia has established air quality monitoring stations, real-time data on land-based pollution in coastal areas remains limited. The Ministry of Environment is the primary agency responsible for environmental monitoring, but comprehensive data on land-based pollution hotspots are not readily available.

Status on coordinating national activities and contributing regional activities for 2025-2026

Department of Coastal zone and Marine Conservation Department/MoE

- Strengthening the imp
  management, conser
  coastal and marine e
- Reduction of environ
  coastal and marine z
- Develop policies, regu
  guidelines, strategic p
  budget plans related
  coastal and marine e
- Strengthening the tec
  national and sub-nati
  natural resource man
  marine ecosystem se
- Disseminate laws, po
  agreements to streng
  biodiversity conservat
  and sustainable use
  coastal and marine a

Department of Water Quality Management Department/MOE

sseminate public water

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ollution

disseminate
nd reduce the emission
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rly, semi annual and

Status on coordinating national activities and contributing regional activities for 2025-2026

Introduction of specialized executing agency on LBP

- Ministry of Environment of Cambodia is the leading agency

National Working Group on LBP

- Mr. Ke Vongwattana, Deputy Director General, General Directorate of Environmental Protection, Ministry of Environment
- Department of Water Quality Management
- Department of Coastal Zone and Marine Conservation

Expert/s to join TDA team

- Mr. Meas Rithy, Deputy Director, Department of Costal Zone and Marine Conservation, MoE




Challenges and recommendations for implementing LbP activities for 2024-2026

Time schedule for signing and implementing new/amended PCA/GSAs

- Time of signing the first PCA: 12 September 2022
- Time of signing the amended PCA: 24 June 2024

Challenges

- Lack of data and monitoring system for LBP
- Lack budget to support and expand water quality monitoring
- Lack budget to implement pilot activities on water pollution prevention and reduction
- Lack research activities on sources of water pollution

Recommendations

- Provide detailed workplan and budget allocation for implementing LBP activities in Cambodia.

Thank you so much for your attention