

# Water Quality Monitoring, Management and Treatment

Environmental Consulting Services



**EARTH SYSTEMS LAO**  
Environment – Water – Sustainability

## CAPABILITIES

Water is one of the most valuable natural resources for human development. Thus, retaining water quality and ensuring the sustainable use of this non-renewable resource is essential; especially in the remote areas where water drinking and household supply is sourced from rivers, streams and underground aquifers. Earth Systems Lao provides advice to development projects in developing and implementing remediation strategies for polluted waterways and the sustainable use of fresh water.

## SERVICES PROVIDED

- Hydrological and hydraulic investigation
- River and catchments management
- Freshwater ecology studies and impact assessment
- Water monitoring and quality assessment
- Develop treatment strategies
- Provide routine or emergency treatment and monitoring services for water bodies



*Earth Systems Lao sampling stream water  
(Sepon Gold and Copper Mining Project)*



*In the remote areas where there is no water treatment or purification, ensuring clean water source is essential for human health and well being (Gnommalath District, Khammouane Province)*

## RELEVANT PROJECT EXPERIENCE

Recent projects completed by Earth Systems Lao include:

- Assist in drafting of Environmental & Social Management Plan (ESMP) for the Sepon Gold and Copper Mining Project, Savannakhet Province, Lao PDR
- Development of acid drainage management strategies and provision of advice on appropriate water treatment facilities at opencut and port facilities at a number of coal operations in South Kalimantan, Indonesia
- Assist Lane Xang Mineral Ltd preparing a Rehabilitation and Mine Closure Plan for the Sepon Gold and Copper Mining Project, with particular reference to water quality issues. Savannakhet Province, Lao PDR

***For further information, please contact  
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