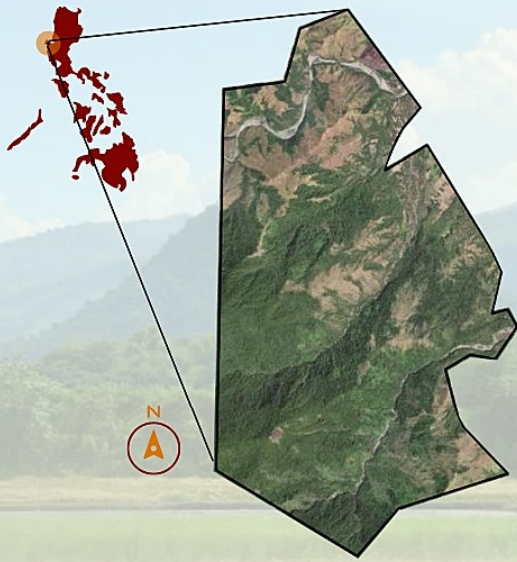


LAKBAY-ARAL: Outdoor Learning Spaces in Manleluag Spring Protected Landscape



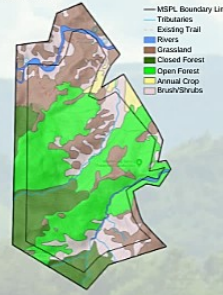
POLITICAL

Existing governance mechanisms may affect the management of MSPL.



ECONOMIC

Locals rely on the resources found in MSPL.



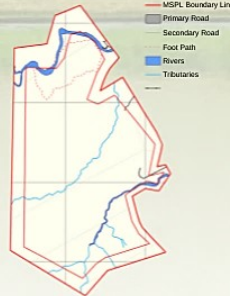
SOCIAL

MSPL covers several barangays and shelters 136 households.



TECHNOLOGICAL

No accessible routes for monitoring inside the MSPL.



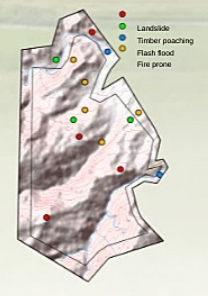
LEGAL

Strict protection zone is closed to human activities. Multiuse zone and buffer zone are open to activities.



ENVIRONMENTAL

The destruction of natural habitat are due to natural calamities, hunting, and forest fires.



THE SITE

Manleluag Spring Protected Landscape (MSPL) is known because of its natural hot springs. The Manleluag Spring is a set of two ophiolitic hot springs near the extinct volcano Mt. Malabobo. Aside from the spring, the PA is also known because of its importance in biodiversity. MSPL is dominated by thick forests and is a home to over 90 bird species and some endangered mammals.

DESIGN PHILOSOPHY

Spirit of mariit is an indigenous belief that every part of nature is inhabited or owned by unseen dwellers. Our ancestors believed that calamities and disasters happen because people no longer respect nature, abusing the natural resources and getting more than what they need. Thus, it should be respected or taken care of, otherwise, there will be disastrous, unpleasant results.

This indigenous belief will serve as the ruling principle for the design, as it aims to solve one of the weaknesses of the site while ensuring that threats to nature are minimized.

DESIGN CONCEPT

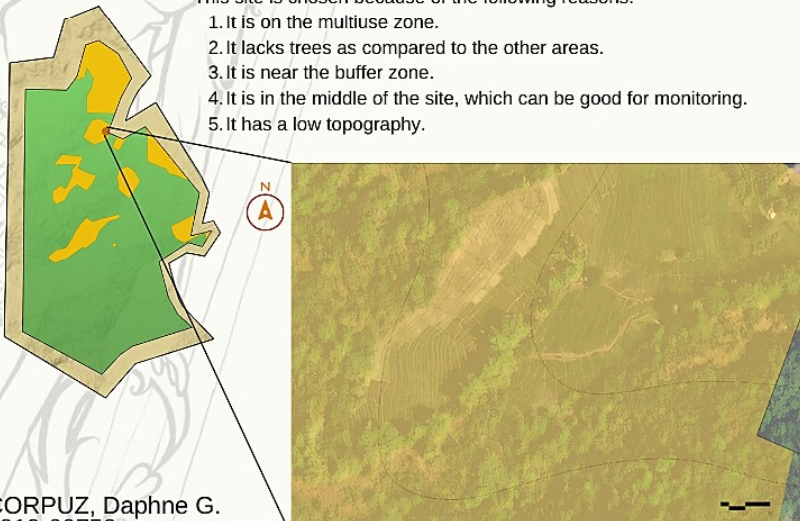
The locals believed that the dense forests of Mangatarem have been long protected by supernatural beings. To preserve this folklore, the design concept of this project is one of the most famous deities who guard natural creations such as forests, mountains, and streams – that is, Diwata.

To apply the concept to the design, the following strategies were used: (1) curvilinear forms to resemble femininity, (2) abundant and dense planting materials to depict positive crop growth, and (3) sustainable design principles to make the landscape long-lasting, which signifies the 'everlasting' life of a Diwata.

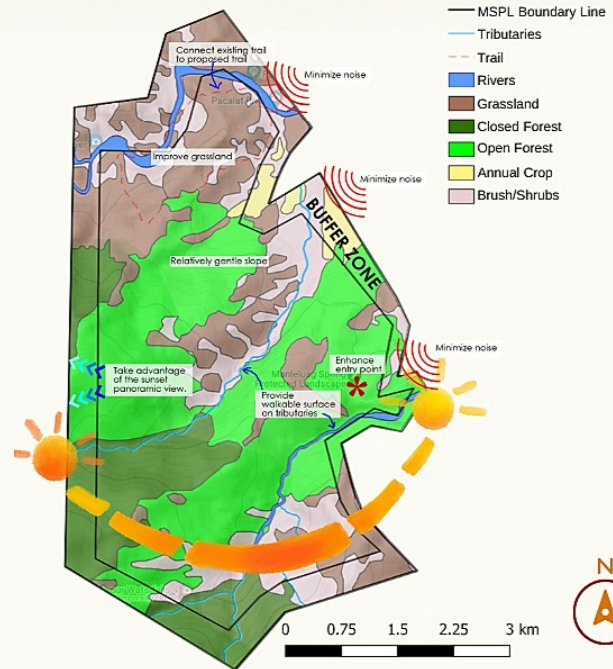
CHOSEN SITE

This site is chosen because of the following reasons:

1. It is on the multiuse zone.
2. It lacks trees as compared to the other areas.
3. It is near the buffer zone.
4. It is in the middle of the site, which can be good for monitoring.
5. It has a low topography.



SITE ANALYSIS



SWOT ANALYSIS

STRENGTHS

- Technological:** accessible through a highway road
- Political:** existing governance mechanisms in MSPL
- Social:** majority of the residents are considered independent
- Environmental:** existing flora and fauna species

WEAKNESSES

- Political:** partnerships with institutions are not maximized.
- Technological:** no accessible routes for monitoring
- Economic:** source of income is insufficient to provide for daily substance.

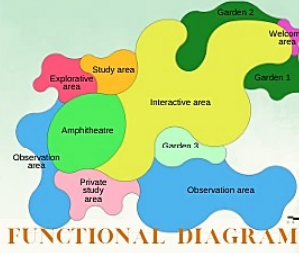
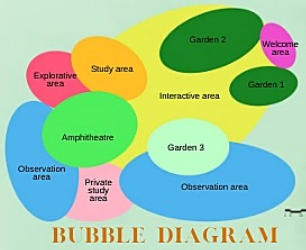
OPPORTUNITIES

- Economic:** provision of types of livelihood allowable within MSPL
- Social:** raise awareness of the community on PAMB functions
- Legal:** multiple-use areas can be used for ecotourism projects and income-generating activities

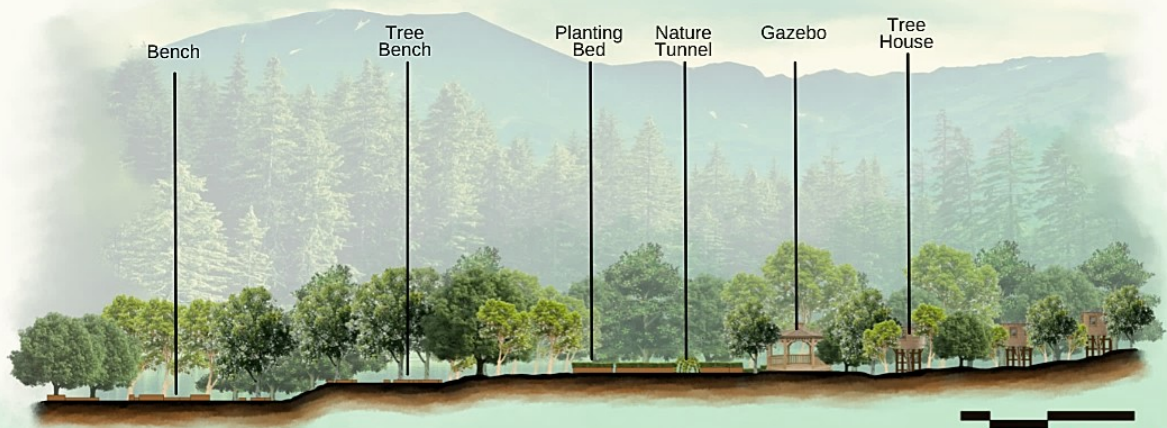
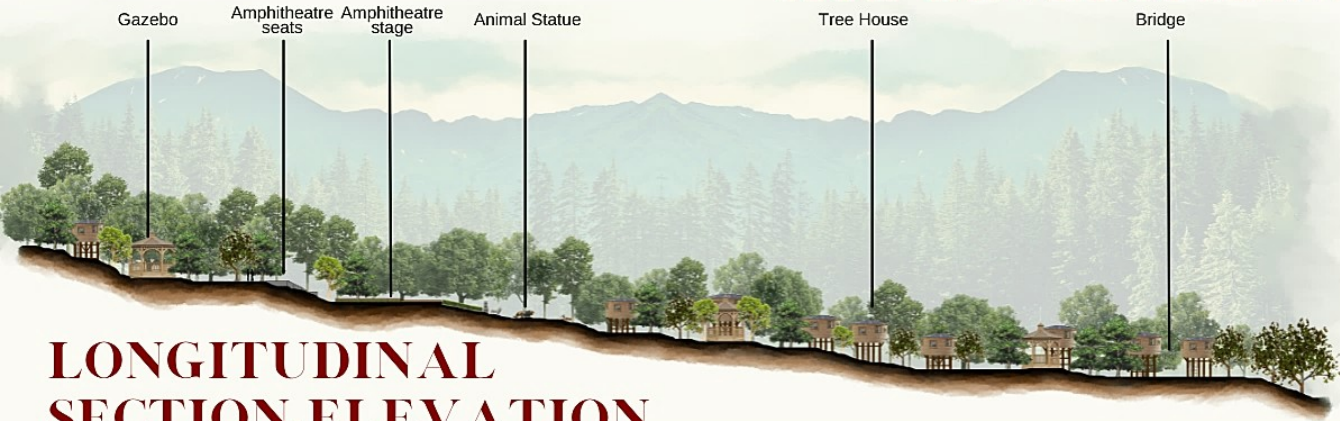
THREATS

- Environmental:** uncontrolled human activities and natural calamities degrade the natural habitat
- Economic:** income-generating projects may increase potential risk on the natural resources

LAKBAY-ARAL: Outdoor Learning Spaces in Manleluag Spring Protected Landscape



- 01 Welcome area
- 02 Log statue
- 03 Wooden and stone animal statues
- 04 Information board on MSPL
- 05 Clumps of trees
- 06 Tree bench
- 07 Play structure
- 08 Mound
- 09 Benches
- 10 Study table and chairs
- 11 Covered stage
- 12 Stage
- 13 Formal planting with bench
- 14 Water feature with rock path
- 15 Amphitheatre seats
- 16 Amphitheatre stage
- 17 Gazebo
- 18 Tree house
- 19 Bridge
- 20 Covered study area
- 21 Hedges
- 22 Nature tunnel
- 23 Green house
- 24 Main path
- 25 Nature trail/Secondary path



LAKBAY-ARAL:

Outdoor Learning Spaces in Manleluag Spring Protected Landscape



PLANTING BEDS Spot Perspective

for the locals to have their crops planted, opening the opportunity for additional income.



AMPHITHEATRE STAGE Spot Perspective

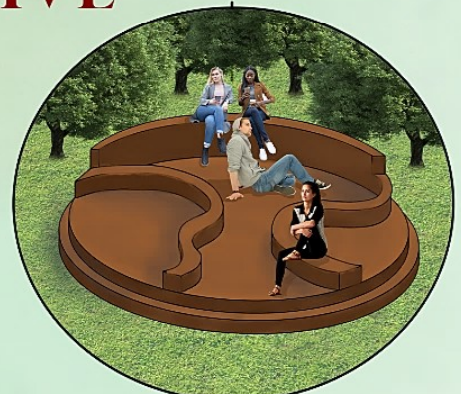
for performances and other types of events.



NATURE TUNNEL Spot Perspective

for the users to have a unique experience in learning vines and other plant materials.

AERIAL PERSPECTIVE



SOCIAL AREA BENCH Spot Perspective

for the users to interact with each other.