



# Title: OPTIMIZATION OF THE RAINBOW TROUT REARING PROCESS (ONCORYNCLIUS MYKISS). CASE STUDY

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# Research Opportunity Area:

- ▶ The overpopulation of specimens in the ponds and, as a consequence, generates uncertainty in the inadequate distribution of the trout, affecting their size and weight, generating an extra activity known as "splitting", which consists of the transfer of trout to through a network of a pond that passes through a trout selector that determines the size and destination of each of the specimens, with the aim of sectioning them according to growth stages, it is worth mentioning that this operation results in the generation of additional costs that are not recoverable at the final point of sale of the specimen.

# Methodology

1. Analysis of the area
2. Case study sample as a source of information.
3. Development of descriptive research (surveys).
4. Personal interview.
5. Field training.
6. Statistical collection of information
7. Real Proposal Study

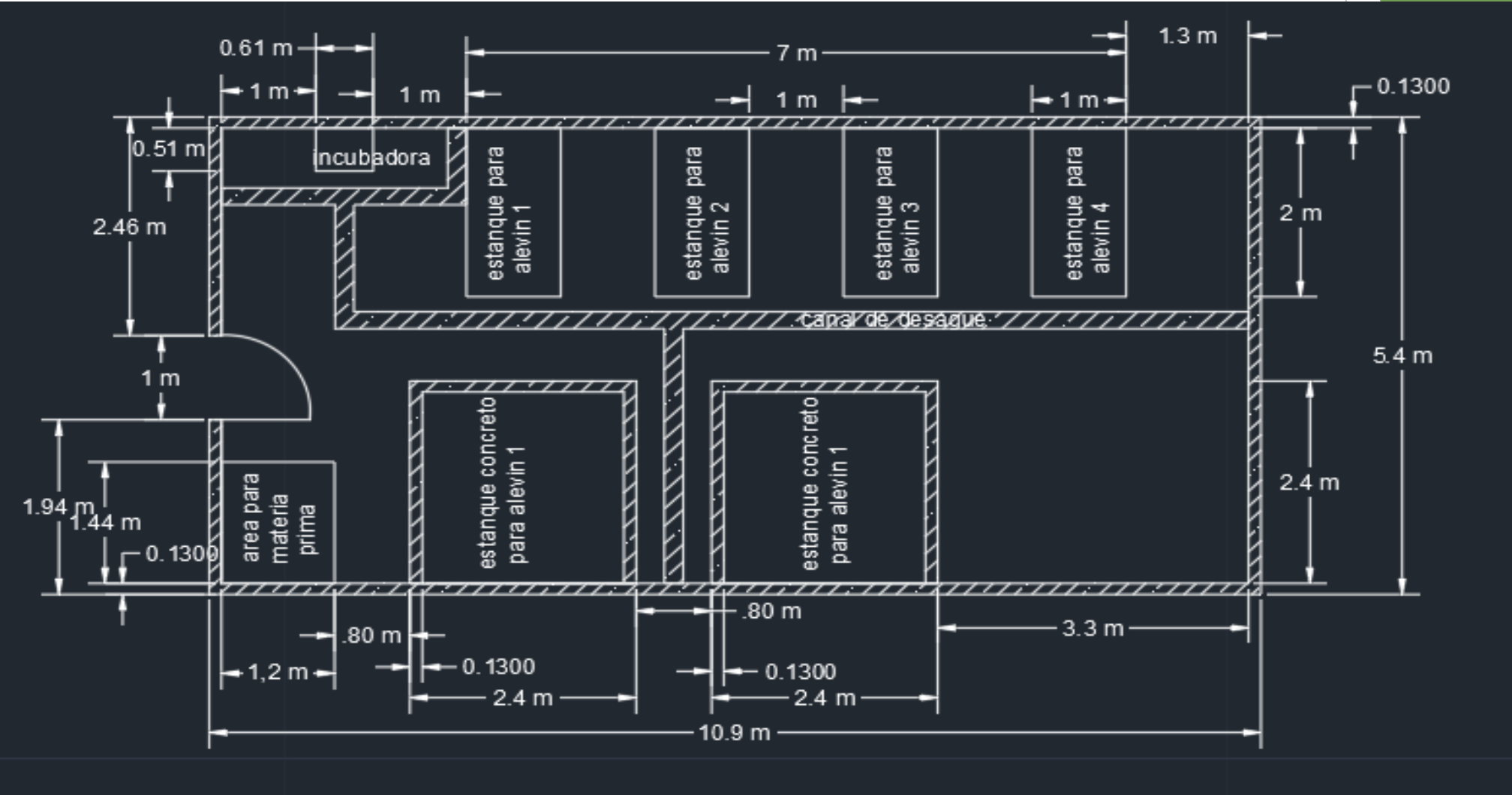
# Results

1. biological material
2. Infrastructure
3. Unfolding operation
  1. Youth Stage
    1. Operation Select
    2. Operation Return
  2. Fattening Stage
    1. Operation Select
    2. Operation Return

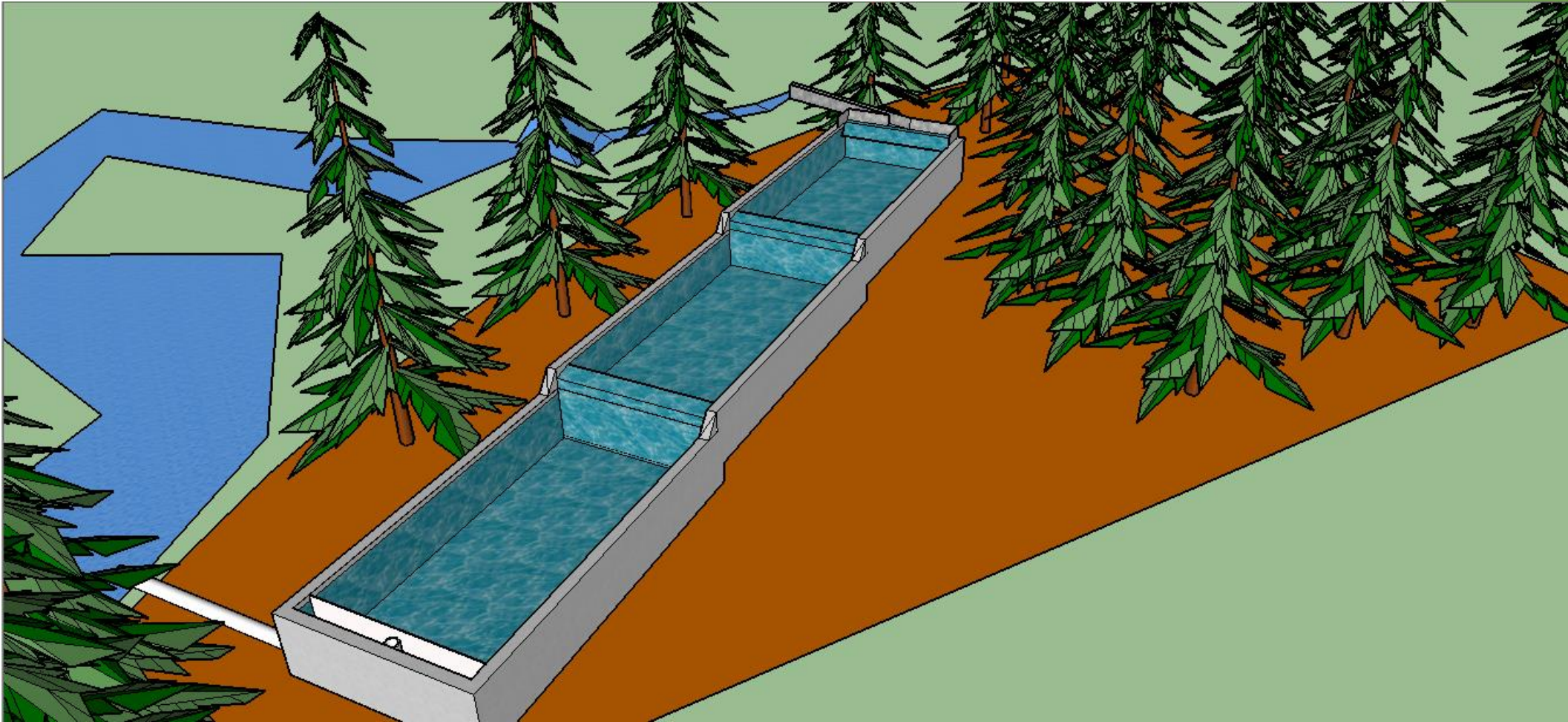
## Conclusions

- ▶ Using the results of the sample case study, the optimal conditions for the design of the ponds of the proposed hatchery were determined within the territory belonging to the property of the Higher Technological Institute of Huauchinango.
- ▶ Through the analysis carried out in the sample case hatchery, it was determined that in the unfolding operation applied periodically twice a month throughout the year, there will be an annual cost of \$37,692.00 for an activity that does not generate value in the process of production, this operation will be eliminated in the proposal for the new trout farm in order to optimize the process.

# Proposal



# Proposed tank design





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