

SOLUÇÃO NA PLANILHA
GERENCIAMENTO DO HERA
ETAPAS DO WORKFLOW
LAYOUTS

The flowchart illustrates the design process for the HERA project, starting with a decision on the reservoir type (upper or lower) and the water treatment process (res_type_watc_x = 2?).

Upper Reservoir Path:

- If **res_type_watc_x = 2?** is **Y**, the process goes to **hera_dams** (Task 1) and then to **lower**.
- If **res_type_watc_x = 2?** is **N**, the process goes to **hera_dams** (Task 2) and then to **lower**.
- From **lower**, the process goes to **SE res_type_watc_x = 0**.
- From **SE res_type_watc_x = 0**, the process goes to **hera_spillway** (Task 1, 2).
- From **hera_spillway**, the process goes to **hera_diversion** (Task 1, 2) with the note "quando lodiv3 = adufas".
- From **hera_diversion**, the process goes to **hera_tunnel_rf** (Task 1, 2) with the note "dimensões para desvio".
- From **hera_tunnel_rf**, the process goes to **LAYOUT 1**.
- From **LAYOUT 1**, the process goes to **hera_spillway** (Task 2, 3) with the note "looping (bacia) e geometria".
- From **hera_spillway**, the process goes to **LAYOUT 2**.
- From **LAYOUT 2**, the process goes to **hera_tunnel_rf** (Task 2, 3) with the note "traçado e looping (perdas)".
- From **hera_tunnel_rf**, the process goes to **hera_diversion** (Task 2, 3).
- From **hera_diversion**, the process goes to **LAYOUT 3**.
- From **LAYOUT 3**, the process goes to **hera_dams** (Task 2, 3) with the note "construção dos muros".
- From **hera_dams**, the process goes to **end upper** and **end lower**.

Lower Reservoir Path:

- If **res_type_watc_x = 2?** is **Y**, the process goes to **hera_dams** (Task 1) and then to **lower**.
- If **res_type_watc_x = 2?** is **N**, the process goes to **hera_dams** (Task 2) and then to **lower**.
- From **lower**, the process goes to **SE res_type_watc_x = 1 ou 2**.
- From **SE res_type_watc_x = 1 ou 2**, the process goes to **hera_tunnel_rf** (Task 1, 2).
- From **hera_tunnel_rf**, the process goes to **LAYOUT 1**.
- From **LAYOUT 1**, the process goes to **hera_tunnel_rf** (Task 2, 3) with the note "traçado e looping (perdas)".
- From **hera_tunnel_rf**, the process goes to **LAYOUT 3**.
- From **LAYOUT 3**, the process goes to **end upper** and **end lower**.

Final Decision and Tasks:

- From **end upper** and **end lower**, the process goes to **res_type_watc_x = 2?**.
- If **res_type_watc_x = 2?** is **Y**, the process goes to **hera_quant_dam** (Task 3).
- If **res_type_watc_x = 2?** is **N**, the process goes to **hera_quant_dam** (Task 4).
- From **hera_quant_dam**, the process goes to **hera_quant_hsy** (Task 5).
- From **hera_quant_hsy**, the process goes to **hera_budget_psh** (Task 6).