"Table 3: Statistical comparison of pre- and post-rewetting nutrient concentrations and GHG fluxes. For pre- and post-phases, summer and autumn seasons were used (June to November 2019 and 2020, respectively). Nutrient concentrations are compared for the inner bay and GHG fluxes for the peatland site. *** and "n.s" indicate $p < 0.001$ and not significant, respectively."

| variable | pre-rewetting | | post-rewetting | | *p* |
|---|---|---|---|---|---|
| | mean ± sd | n | mean ± sd | n | |
| $NH_4^+$ (µmol $L^{-1}$) | 2.6 ± 1.6 | 9 | 9.6 ± 17.7 | 17 | n.s. |
| $NO_3^-$ (µmol $L^{-1}$) | 1.9 ± 2.5 | 8 | 2.7 ± 3.3 | 8 | n.s. |
| $NO_2^-$ (µmol $L^{-1}$) | 0.2 ± 0.1 | 10 | 0.7 ± 1.1 | 16 | n.s. |
| $PO_4^{3-}$ (µmol $L^{-1}$) | 0.9 ± 1.6 | 6 | 0.4 ± 0.3 | 11 | n.s. |
| $CO_2$ flux (transect + area, g $m^{-2}$ $h^{-1}$) | 0.3 ± 0.8 | 330 | 0.3 ± 0.3 | 450 | n.s. |
| $CO_2$ flux (ditch, g $m^{-2}$ $h^{-1}$) | 0.3 ± 0.1 | 87 | 0.3 ± 0.3 | 92 | n.s. |
| $CH_4$ flux (transect + area, mg $m^{-2}$ $h^{-1}$) | 0.1 ± 1.0 | 97 | 1.7 ± 7.6 | 320 | *** |
| $CH_4$ flux (ditch, mg $m^{-2}$ $h^{-1}$) | 11.4 ± 37.5 | 85 | 8.5 ± 26.9 | 92 | *** |

"Uncertainty ranges for the seasonal NNTs (uNNT, as 95 % confidence level) were calculated as standard errors (SE) by using an error propagation according to Eq. (6):

$$u_{NNT} = \sqrt{\left(c_{bay}\, dt\, u_{Qin}\right)^2 + \left(c_{peat}\, dt\, u_{Qout}\right)^2 + \left(Q_{out}\, dt\, u_{cpeat}\right)^2 + \left(Q_{in}\, dt\, u_{cbay}\right)^2}$$

where terms with "u" denote the respective SE as 95 % confidence level. To gain the annual SE of the NNT, all seasonal SE were added up."