Quasi-dilaton theory is an extension of massive gravity by adding a scalar degree of freedom realizing a new global symmetry of the Lagrangian [1], and this is a candidate of theories with non-vanishing graviton mass. It has been shown that there are homogeneous and isotropic Friedmann solutions, which exactly provides the cosmological constant. In order to be consistent with solar system experiments, the theory has to recover general relativity at small scales. Surprisingly, this theory reduces to bi-galileon theory in the decoupling limit, which potentially has the screening mechanism called Vainshtein mechanism. We study detailed analysis of Vainshtein solutions and show that appearance of ghost is inevitable in a subclass of quasi-dilaton theory.