9. The pump must work against the hydrostatic pressure exerted by the column of sewage (of density ρ and height $\ell = 8.2\,\mathrm{m} - 2.1\,\mathrm{m} = 6.1\,\mathrm{m}$). The (minimum) pressure difference that must be maintained by the pump is $\Delta p = \rho g \ell = (900\,\mathrm{kg/m^3})(9.8\,\mathrm{m/s^2})(6.1\,\mathrm{m}) = 5.4 \times 10^4\,\mathrm{Pa}$.