The Fly Ranch water load required to mitigate playa dust is spread out over the course of the year, reducing the environmental impact. Each small storage structure holds 40,000 gallons of water, while providing space for classrooms or camping. They will be concentrated in primary building zones with transportation access, natural springs, and attractive for human users.

The eco-machine propagates at-risk native wetland species, which are used to reconstruct the wetland habitat. Organic waste is composted on site to maintain a sagebrush nursery. Over time, the human-generated waste supports the resurgence of the sagebrush steppe and Greater sage-grouse community.

Using sewage typically transported to Reno, the eco-machine can grow and adapt based on the site’s changing needs for treating human waste, recharging the aquifer, and supporting wildlife habitats. A simple assembly of pumps and PVC fittings allows 55-gallon drums to be connected into larger water treatment systems, discharging clean water back into the environment.

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