

FAQs

Trailer

- How big is the trailer?
 - 28 ft (25 ft trailer with a 3 ft tongue)
 - 9 ft ramp
 - 13 ft clearance
- How much energy does the trailer use?
 - Trailer uses 960 Watts (120 Volts, 8 Amps)
 - Mobile Sand Table uses 840 Watts (120 Volts, 7 Amps)
- How much did the trailer cost?
 - Just under \$140,000
 - Partially paid for by various grants and donations (still accepting donations!)
- Will there be any future additions to the trailer?
 - There is a potential to add additional features given funding
- Who built the trailer?
 - Cincinnati Museum Center

Sand Table

- Does the flow of water represent erosion?
 - No. To represent erosion you need to physically move the sand
- What are the tiny movements of the lines?
 - The computer is constantly recalculating the distance from the surface of the sand to the Kinect 3D camera
 - It can detect differences as small as 5mm in elevation
- What change in elevation do the contour lines represent?
 - 0.75cm
- Why is there a shadow/why are the contour lines incorrect?
 - The orientation of the projector causes the light to come in at an angle, creating shadows
 - The difference in the position of the camera and the position of the projector sometimes cause the contour lines to appear with inaccuracies
- How quickly does the image update?
 - There is a 1-second delay