

# Antarctica World Wildlife Park

## 7562 Truck Scale

McMurdo Station is the largest of three main US military bases in Antarctica. The entire continent of Antarctica has been designated a World Wildlife Park, indicating that anything delivered to the designated area must be accounted for, weighed, and shipped back to the United States.

In 1996, the National Science Foundation commissioned the building of a massive weighbridge at McMurdo Station to account for all transports in and out of Antarctica. Because of the continent's extreme physical conditions and perpetual tundra-like environment, construction is often obstacle-laden. Since the ground is always frozen, it is not conducive to groundbreaking construction making the preliminary construction operations nearly impossible. The METTLER TOLEDO solution required engineers to be innovative, and did they ever! They drilled small holes in the frozen ground to make room for dynamite sticks. The dynamite was detonated, creating a gap for each footer. The holes were then filled with debris and water, which froze, locking all components into place. The partnership team assembled a technologically advanced weigh solution for extreme weather conditions using the 7562 DigiTOL TRUCKMATE Scale. The scale has now been in service for more than seven years and has been trouble free, even in these extreme conditions.



### Key Factors

- The POWERCELL design incorporates the most advanced technology available: digital transducer technology, stainless steel armored load cell cables, stainless steel cable junction boxes, solid beam structure, and the durability of a steel deck for unbeatable long-term accuracy and reliability.
- The 7562 DigiTOL TRUCKMATE Scale has a 200,000-pound capacity and is used to weigh rolling stock and the load they carry.

### Results

- By securing accurate waste measurements entering and exiting McMurdo Station, the area continues to be preserved as a World Wildlife Park.
- The METTLER TOLEDO/Toltec Scale, Ltd. Partnership team has serviced the weighbridge for the past seven years. During these regularly scheduled visits, the technicians remove any snow or debris that has built up over the year and re-calibrate the machine to ensure continued consistency.
- According to technicians, the weighbridge at McMurdo Station has been operating faultlessly for the past seven years, providing precise and accurate results, despite the extreme conditions. Ongoing service and dedication to superior total technology solutions are credited with the results.
- Because of the team's excellent service record, METTLER TOLEDO, through its Christchurch, New Zealand distributor, Toltec Scale, Ltd., was commissioned to construct a new 20,000-pound air cargo weigh platform at the base.



Our expanded service strategy allows customers to spend their limited resources in areas that have the largest impact – their operation. The METTLER TOLEDO service strategy for the extreme conditions at the McMurdo Station focuses on minimizing the total cost of customer service. METTLER TOLEDO understands that major costs related to service impact the operation in the form of quality, downtime, and accuracy.

Contact your local [METTLER TOLEDO](#) authorized distributor or sales office for more information.