

## Weatherproof Chemical Storage Shed

### BACKGROUND

The City of Calgary had to temporarily set their chlorine totes outside over the winter, which resulted in increased utility bills to heat and store the chemicals. The City approached Terra Water to create a specialized storage shed that could hold 8 chemical totes.

This resulted in a 12 X 24-foot custom-designed building being built to accommodate all specifications requested and the storage required, with easy access inside the shed from 2 garage doors and 2 man doors.

### SPECIFICATIONS

- 12 x 24 ft weatherproof shed on heavy-duty skid
- Two roll-up doors with 10 ft x 11 ft openings
- 2-man doors, one at each end of the skid on the 12-ft wall, to allow access from either end
- 2-inch thick roof and wall metal panels (R-14)
- Minimum containment volume 2500L
- 2 x 25,000 BTU direct vent heaters with fans
- CSA inspected

### SOLUTION

The Terra team designed a non-permanent storage shed that was safe, much more cost-effective, and ensured quality and regulatory standards were met with a seamless installation on-site.

The design includes recessed chemical storage containment within the shed, with grating over top to allow easy access to clean out the sump.

Terra also installed plumbing to tie in all 8 chemical totes using SCH 80 PVC to within 2ft of the tote connections and provided quick connect fittings and hoses to tie into each tote. Each tote can then be isolated using a 2" GF (HYPO chlorite specific) valve.

