



# Philadelphia Gas Works LNG Storage Tank

## PHILADELPHIA, PENNSYLVANIA

### PROJECT HIGHLIGHTS

- This PRELOAD LNG project for Philadelphia Gas Works presented a unique challenge due to the soil conditions at the building site:
  - Each of the two 230' ID x 82' SWD tanks were supported by over 2,200 piles, and high molecular weight plastic pipes were used over typical metallic conduits due to the corrosive nature of the soil.
  - Load bearing insulation was used for the wall footing as well as the floor to additionally protect from temperature and differential stresses.
  - Like many LNG projects, the outer prestressed concrete walls were used as a dike system.
- PRELOAD also accounted for several other potential hazards in the design, such as the ability to support the weight of fire protection and vaporization equipment.
- These tanks are another example of how PRELOAD stands ready to accept any LNG storage challenge with a tank system to suit the operation's specific needs.

Location:	Philadelphia, PA
Consulting Engineer:	Preload Cyrogenics
Construction Date:	1974
Application:	LNG Storage
Capacity:	For each tank: 92,700 m <sup>3</sup> (583,000 Bbl / 24.5 MG) (230' ID x 82' SWD)
Owner:	Philadelphia Gas Works

