



Access Covers and Gratings

PAMREX Manhole Cover Case Study

PAMREX Partners with Vancouver for a Better Solution

Primary Selling Points



REDUCED INFILTRATION



ODOR CONTROL

Many municipalities are turning to more modern manhole cover designs that provide significant new features – like PAMREX – to reduce or eliminate the negative effects of excessive infiltration of water and debris. Vancouver, Washington, however, has found yet another use for PAMREX.

One of the city's gravity sewer mains has such a steep slope that it results in atmospheric pressurizing and air stripping, increasing the potential for odors to be exhausted through the multiple holes in traditional manhole covers during peak volume flows. Past attempts to address this problem included the use of charcoal filters under the covers, but these filters required quarterly maintenance and were not always effective.

With their mission to provide “good neighbor” facilities in mind, Vancouver's Sanitary Systems Planning and Design Team looked for and found a better solution. According to team members, the gasket on the 24" PAMREX cover has not only prevented rainfall runoff from entering the system, but has also helped prevent odors from exiting.

■ **Odor Control/Reduced Infiltration** — PAMREX covers are designed with an elastomer gasket ring that helps seal the opening, reducing both emanation of odors from below and infiltration of runoff water from above. The gasket ring also absorbs traffic shock and ensures cover stability regardless of traffic conditions. The unit's unique hinge plug helps maintain the tight seal needed to reduce leakage in both directions.

■ **Worker Safety** — The ergonomically positive hinged design of the PAMREX cover provides a quantum leap in efficiency compared to standard covers. The hinge design reduces the physical effort required to lift the cover by 50%, and retains the cover in a safe and controlled way during and after the lift. Additionally, thanks to the use of ductile iron, the PAMREX cover is 50% lighter than comparable cast-iron covers, greatly lowering the potential for back injuries and the associated worker compensation claims.



Modern, technically advanced PAMREX covers are improving the environment in a number of Vancouver neighborhoods. So far the city has installed 30 covers in areas where odor complaints had been received, and residents are very pleased with the results.

There are over 6 million PAM units in the ground around the world utilizing technically advanced materials and engineering. Our focus on the needs of the end-user — rather than developing products merely to meet a minimum performance standard — led us to ductile iron, a superior alternative to cast iron in terms of weight, strength and designability.



Product:

PAMREX 24" hinged manhole cover

Municipality:

Vancouver, Washington

Local CertainTeed PAM Representative:

Titus Industrial Group / Lewis Titus

PAMREX Features:

- High strength, lightweight ductile iron
- Load capacity: 120,000 pounds
- Hinged cover design for easy access
- One-man operable
- Gasket and hinge plug for reduced infiltration
- Optional locking devices available
- Independently tested and certified
- Available in 24", 28" and 32" clear openings

Contact Information:



877.351.3323

www.certainteed-pamcovers.com

