



## HBLR Bergenline Ave. Station - Leakage Assessment New Jersey Transit

**Location:** North Bergen, New Jersey

**Date:** 2014 – Present

**Structure:** Underground Light Rail Station

**Length:** Inspected Area 275 feet (84 meters)

**Geology:** Mostly Diabase of the Palisades Sill

**Cost:** n/a

**Client:** URS Corporation

**Owner:** New Jersey Transit



Figure 1. Bergenline Avenue Platform looking west.

### Engineering Consulting and Design Services:

**B**ergenline Avenue Station is part of the Hudson-Bergen light rail system operated by 21st century rail corporation for New Jersey Transit.

The Bergenline Avenue Station is located on 49th St. between Bergenline Avenue and Kennedy Boulevard in North Bergen NJ. The Station was built by enlarging an existing tunnel, known as Weehawken tunnel, and included installation of waterproofing and drainage system. Water infiltration into the station rooms caused issues with electrical component operation and maintenance. The leakage assessment was limited to the tracks as well as the rooms in the West Station Transition area.

Gall Zeidler Consultants (GZ) performed leakage inspection including mapping and recording the inflow locations and prepared leakage assessment report. The report summarized the inspection findings and proposed remedial measures.



Figure 2. Leaking area in Bergenline Avenue Station.