

MORETRENCH

Dewatering



New Subway System Under Construction Requires Dewatering, Long Island City, NY

Digging deeper.

A new subway to be mined beneath an existing and active five-track system under Northern Boulevard in Queens required significant dewatering during construction. The prime contractor's deep excavation methods consisted of hand mined drifts and conventional underpinning pits through variable, but water-bearing, geology. The site area was enclosed by perimeter jet grout and structural slurry walls for support and partial groundwater cutoff. Nearby contaminant plumes had to be left undisturbed during construction as well.

Moretrench was retained to install a system of deep wells within the perimeter slurry and jet grout walls. The dewatering system was designed and installed to minimize off-site groundwater lowering. Moretrench also designed an exterior shallow recharge system which maintained groundwater levels where leakage was occurring below the slurry wall.

Running further.

The dewatering and subway construction was successfully completed and caused no movement of the nearby plumes.



Excavation along side the in service Northern Boulevard Subway Structure.

Contact Information:



**MORETRENCH
A M E R I C A N
C O R P O R A T I O N**

100 Stickle Avenue
Rockaway, NJ 07866
Tel: (973) 627-2100
Fax: (973) 627-3950
E-mail:
pschmall@mtac.com

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