CASE STUDY GATE A-73 DETROIT METRO AIRPORT AUTHORITY CONCRETE LEVELING OF 17 INCH CONCRETE ON TOP OF 9" ASPHALT OUTSIDE OF NORTHWEST GATE A-73

Customer:	Wayne County Airport Association
Contact:	Alex Gonzales
Installation:	11-07-07
Problem:	Several Concrete panels had dipped over time creating a puddling effect outside of Northwest Airlines Gate A-73 creating icing hazards and weather delays.



Solution: Uretek USA performed a DCP test where it was determined that the subgrade density was unsuitable for the loads it was designed for. Weak soils existed between 5-7 feet below the concrete apron. Upon completion of the DCP investigation Uretek USA performed a series of Deep injections utilizing patented 452 hydro-insenitive polyurethane foam to stabilize the weak soils. Once the soils were stabilized more foam was injected directly below the panels to lift them back to within 1/10" of grade.



Results: The site was visited again by Brian Francis of Uretek USA and Alex Gonzales Maintenance Director of Wayne County Airport Association on a rainy January 8, 2008 day. Water was visibly flowing from the previous problem area to the catch basins and draining into the storm sewers. According to Wayne County Airport Association "Uretek has completely fixed this problem".



Close up of water flowing toward catch basin.

