

# CASE HISTORY

## North Kahana Stream Bridge

### LOCATION

Oahu, Hawaii

### PRODUCTS

MCI®-309 Powder

MCI®-2005 NS

### PROBLEM

North Kahana Stream Bridge is located steps away from the Pacific Ocean. Constant trade winds coming off the ocean are at an average speed of 17 mph to 28 mph, and in winter can be as high as 40 mph. The atmosphere is highly contaminated with chlorides as well as sulfuric dioxide from the volcano located on the big island of Hawaii. Inland water reports that show rainfall is at 4.5 pH. The acid rain combines with chlorides to create a very corrosive environment.

### APPLICATION

Injection of MCI®-309 with air was performed just after the post tension cables were placed. MCI®-309 does not need to be removed when the post-tension chambers are injected with grout. MCI®-309 is readily absorbed by the grout. MCI®-2005 NS admixture was admixed into the new concrete placed on the bridge.

### CONCLUSION

Cortec's MCI®-309 & MCI®-2005 NS provide excellent corrosion protection in an aggressive environment. MCI® was used because it provided protection to the steel surface, greatly extending the expected service life of the structure.

### DATE

May 2011

### DISTRIBUTOR

Bonded Materials

### CORTEC® REPRESENTATIVE

Corrosion Cops

### CUSTOMER

HIDOT

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