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To Whom It May Concern:

RE: Repair of Water Supply Systems by application of KALMATRON® KF-A

Our Department utilized an application of a Shotcrete mix containing KALMATRON® KF-A admixture for repair of the concrete aqueduct in the Mojave Desert to stop the crude oil and water from leaching through the ground and into the aqueduct. Without any interior surface preparations, a remedial layer was applied on the damaged and contaminated concrete.

The first observation of the repaired area was done 12 hours after application. There was no sliding or shrinkage due to setting, and no water leaks were found on the repaired structure. Prior to the repair, crude oil had leaked through and migrated down to the old floor of the aqueduct through the boundary zone between the old concrete and new remedial layer. After the repair, no crude oil leaks were observed on the repaired surface.

The second observation of the repaired area was done approximately 1 year later. This confirmed that the repaired surface was intact and showed no sign of water or oil leaks. There was no shrinkage or adhesion exhaustion found at the site.

Another water supply line, a 10ft diameter steel pipe, was relined on the interior with KALMATRON® KF-A added to the plaster mix. The significance of this repair project was based on the plaster application to a metal surface with no binding materials. Immediate adhesion of the plaster mix with KALMATRON® KF-A to the metal surface indicated that there was no sliding or shrinkage causing defects.

KALMATRON® KF-A has been tested and approved for use by the Los Angeles Department of Water & Power.

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