

**Otay Water District  
Board of Directors Meeting**

**The Pointe Development  
42-Inch Pipeline**

April 1, 2009

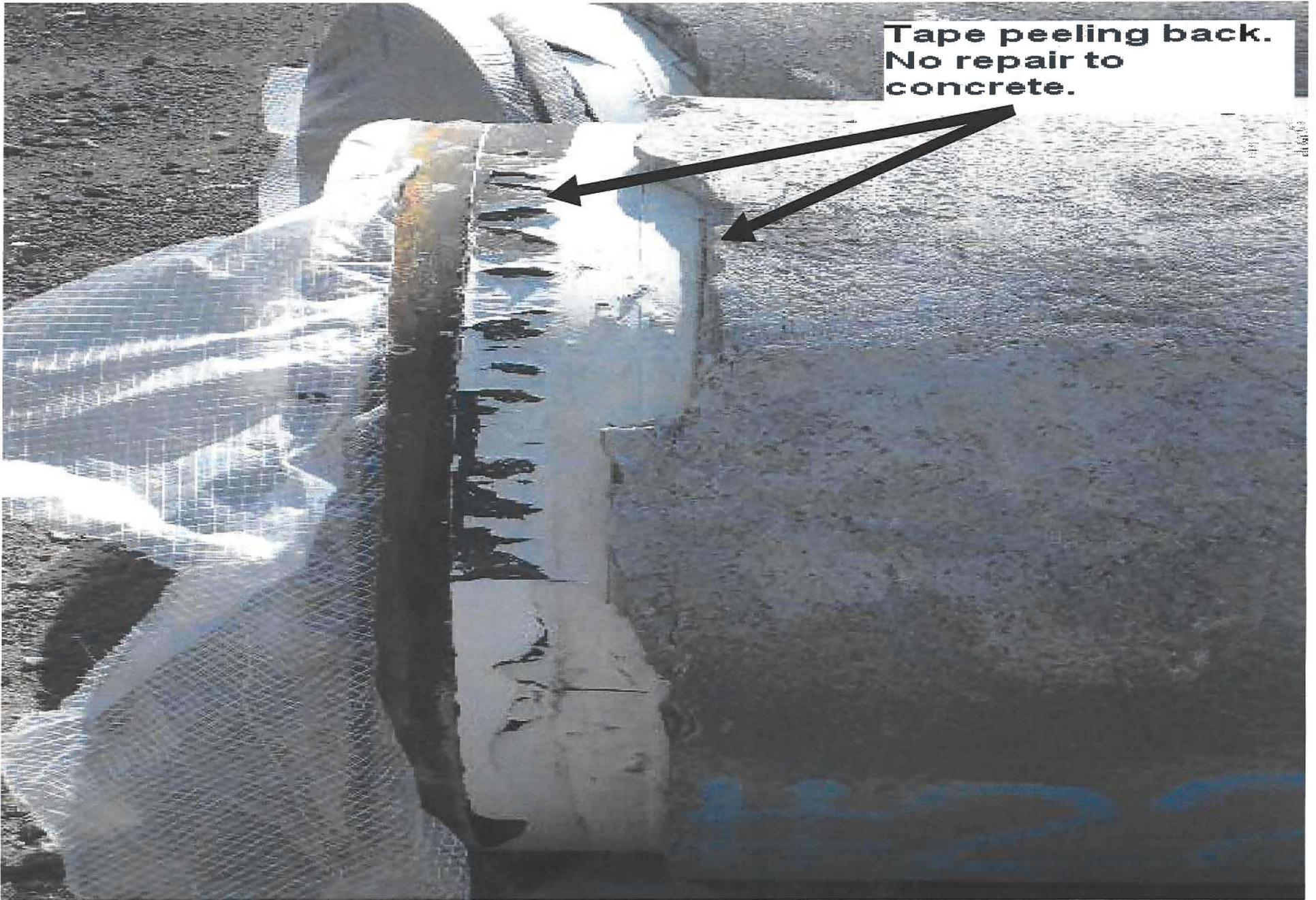
# Brief History

- **March 10, 2008 - Notification received that The Pointe is ready to install pipe on Jamacha Blvd**
- **May 2008 thru March 2009 - Correspondence between the District and The Pointe Development concerning condition of pipe**
- **April 18, 2008 - Atlas Resources inspected the pipe for defects related to its storage. Atlas' report indicated damage from exposure to the elements, incorrect support of the pipe, and activities of trespassers such as fires inside the pipe**
- **October 29, 2008 - District performed a preliminary non-destructive lining inspection (results inconclusive)**
- **December 3, 2008 - District requests The Pointe engage a professional to perform a "pull-off" test or have manufacturer certify the pipe**
- **March 2, 2009 – Report from M. J. Schiff, consultant, recommends that the lining in all 34 pipe segments be replaced**
- **March 2, 2009 - The Pointe indicated they would be returning the pipe back to the factory to be re-lined**
- **March 26, 2009 - Pipe has not been returned to the factory**





TAPE



**Tape peeling back.  
No repair to  
concrete.**

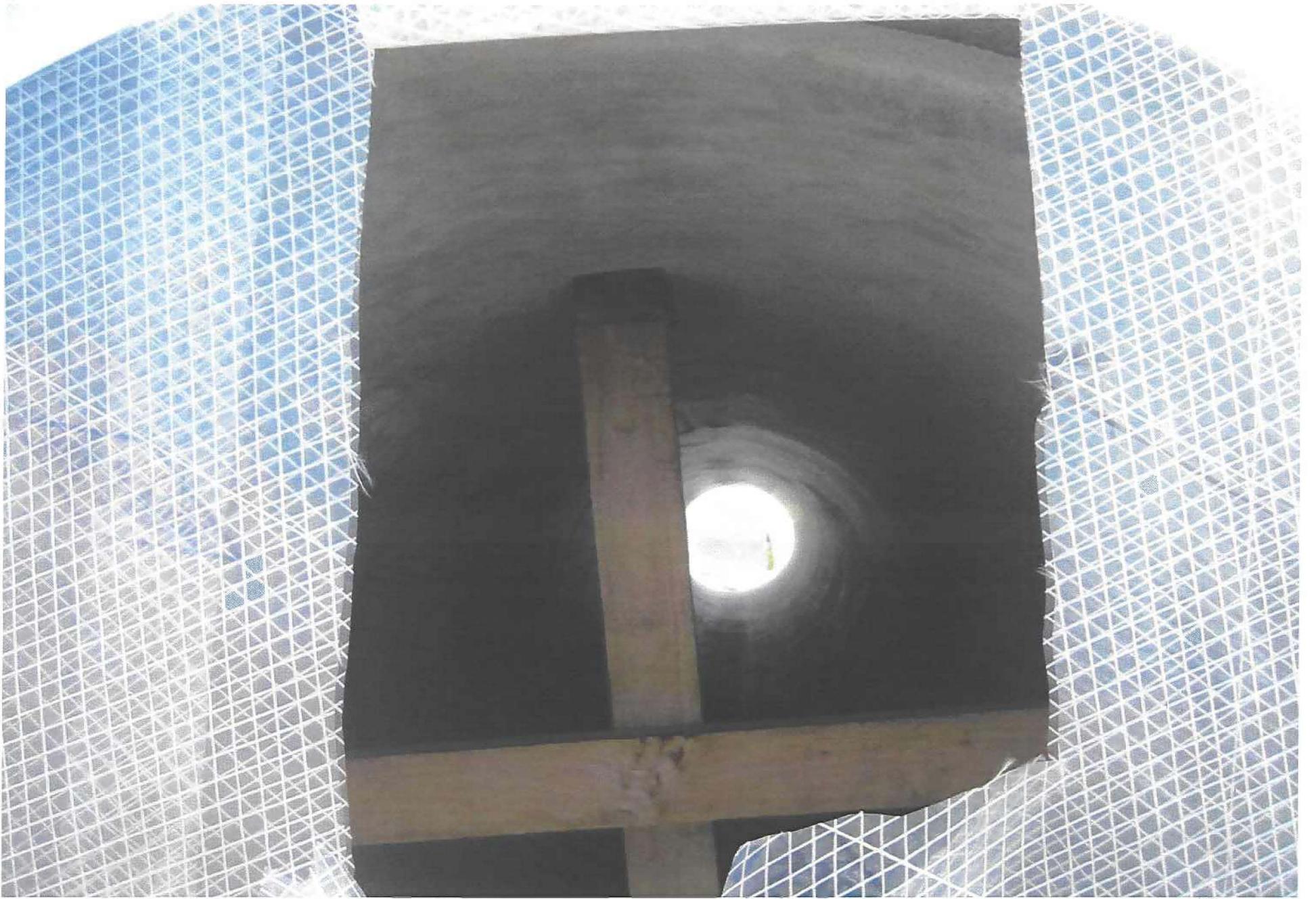






**FIRE  
DAMAGE**





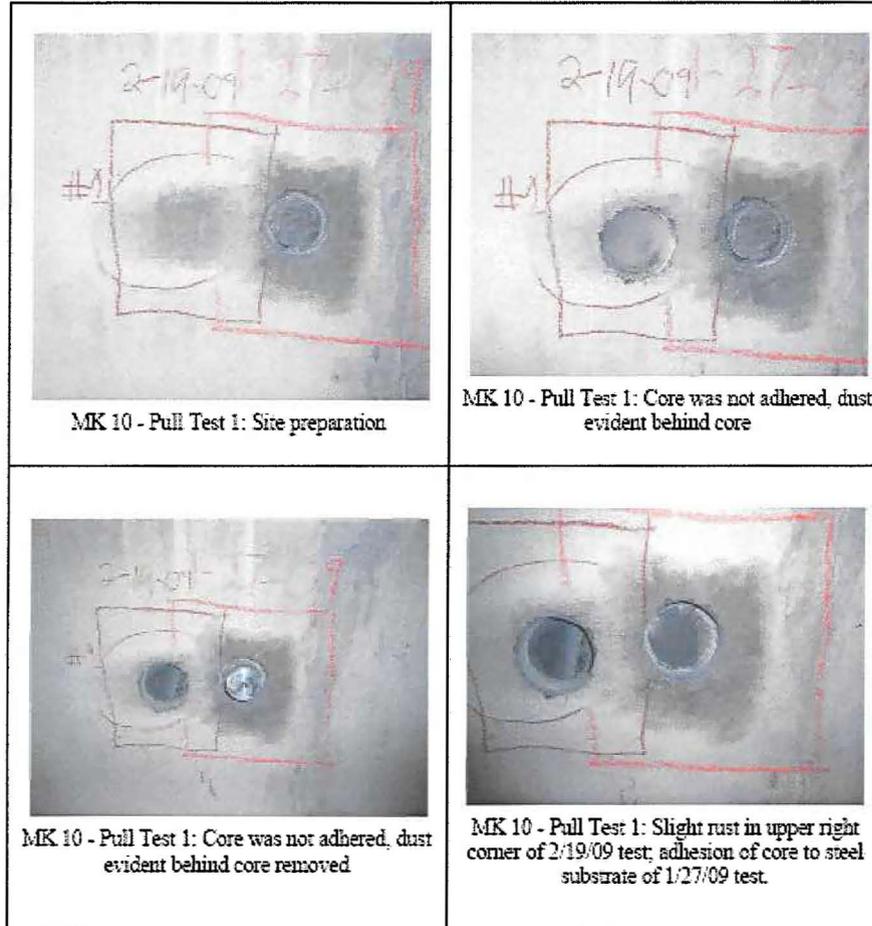


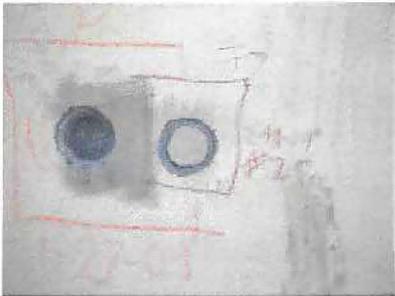
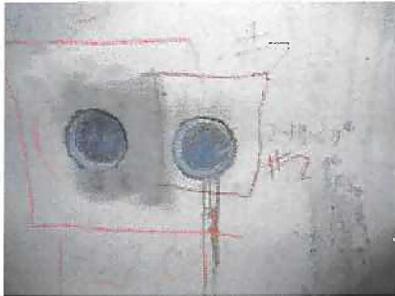
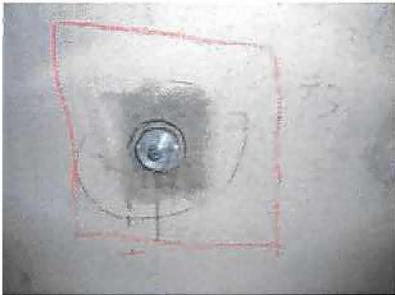
# Schiff Report Highlights

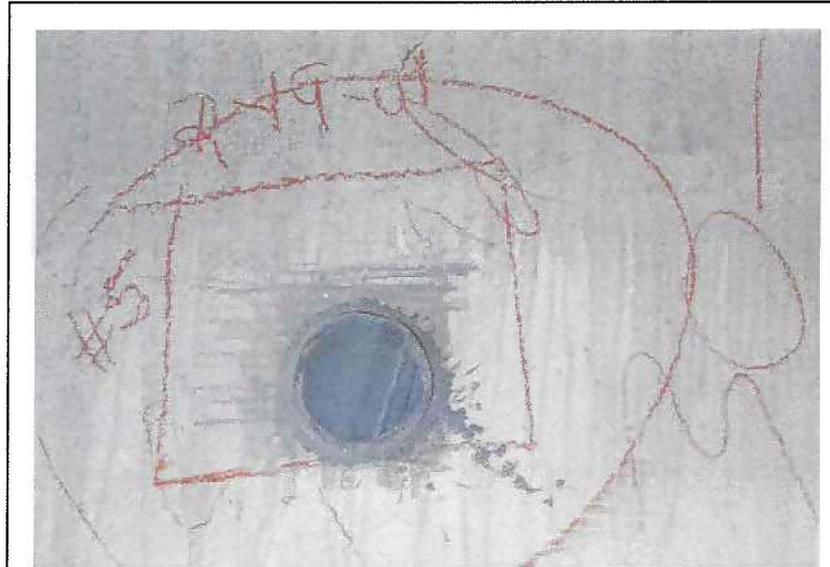
- 8 randomly selected pipe segments out of 34 will provide 99% level of confidence
- 1 segment of pipe suffered fire damage
- 1 segment of pipe is not on site
- Non-destructive test identified delaminated mortar lining areas
- “Pull-off” test at delaminated areas indicated lining adhesion failure – slight corrosion noted in some test locations



**Summary – Lining in all 34 pipe segments should be replaced**



 <p>MK 10 - Pull Test 2: Site preparation; left core from 1/27/09 fell off with slight touch.</p>	 <p>MK 10 - Pull Test 2: 1/27/09 and 2/19/09 still had adhesion as evident with the cement paste still adhered to the steel can.</p>
 <p>MK 10 - Pull Test 3: Test preparation</p>	 <p>MK 10 - Pull Test 3: Rust striations behind core.</p>



MK 10 - Pull Test 5: Core was not adhered to steel cylinder; watery rust marks behind core.

**QUESTIONS?**