

DRAFT

T-117 Failure Response Plan Rev 3

Order Number: 30885531
October 24, 2011 @ 7:20PM

De-Water

- 1) Spray exposed edges of failed pipe with WD-40 and place a split hose over the edges for mechanical protection.
- 2) Place tarp over failure surfaces prior to excavation. Hand dig around failed pipe, taking care not to damage failed seam surfaces. Mechanically excavate beyond disturbed soil
- 3) Pump water at failure site into vacuum trucks and return to baker tanks at location B. Log volume removed from site.
- 4) Monitor level of water at failure site under the direction of Joel Mannie.
- 5) If water can be removed sufficient for removing the effected joint. Expose 40-ft of pipe including the failed portion.
- 6) Stock pile all spoil.
- 7) Cut out 40-ft section of pipe including the failure and retain for analysis. Place removed section on ditch bank and secure surrounding area. Arrange for on site pipe testing with Dan Tilly prior to shipment. Dan Tilly will develop testing protocol in conjunction with the CPUC. Once on site testing is complete, utilize chain of custody and transport to ATS in San Ramon. (see attached sketch)
- 8) Install a new 40-ft section of pipe to facilitate dewatering.

De-Water Contingency

- 9) If water cannot be removed sufficiently to remove the effected joint, remove deformed pipe around failed weld seam with cutting torch. Note: Remove one quadrant including failed seam. Extend cut out section 2-ft beyond the end of failed seam. Utilize chain of custody and ship to Dan Tilly ATS San Ramon. Dan Tilly will develop testing protocol in conjunction with the CPUC
- 10) Install plastic barrier under pipe repair sleeves. Fix sleeves to failed pipe with sleeve jacks.
- 11) Push fill pig back from location A to location B. Pump at location B during this process and record water volume collected.

12) Vacuum any water discharged at failure location into vacuum trucks and haul to baker tanks at location B.

Repair

12) Remove both joints involved in the failure and 10 feet from both adjacent joints. Place removed section on ditch bank and secure surrounding area. Arrange for on site pipe testing with Dan Tilly prior to shipment. Once testing complete, utilize chain of custody and transport to Modesto GC yard.

12) Install 100-ft replacement piece constructed of 34-inch 0.375 w.t. DSAW X65 pipe. (Pipe need not be pre-tested)

13) Radiograph all welds.

Re-Test

14) Return to Site Specific Test Procedure, Fill Sequence of Operation, Step 7 and continue as outlined.