

**36" Carbon Steel "Sump Pile"
Leak Repair using Clock Spring®
Contour Wrap**



36” Carbon Steel “Sump Pile” Leak Repair using Clock Spring® Contour Wrap

1 Surface Preparation

During a routine inspection, it was noticed that a leak (that eventually ended up being approximately 1” in diameter) had started on the “Sump Pile” as a result of internal corrosion.



2 Patch Plate & Putty Application

Engineers onsite had requested SKPS to design a Clock Spring® Contour repair to ensure the safe operation of the “Sump Pile” without the need for any shutdown due to “hot work”. The leak was temporarily sealed using a patch and leak sealing putty.



3 Clock Spring® Contour Application

SKPS designed a repair in accordance to ISO 24817 to apply a “Clock Spring® Contour” repair. The photo of the “Sump Pile” after the “Clock Spring® Contour reinforcement”.



4 Design Criteria

Operating Pressure	: 5 psi
Operating Temperature	: 62° C
Defect Type	: Through wall metal loss.
Size	: 36”
Material	: Carbon Steel
Defect Analysis	: Pin hole leak and it has been arrested using patch plate with steel putty.