



**Environmental
Management
Services**

Interceptor Repair Case Study

Summary

During a CCTV interceptor integrity inspection we found that the baffle wall on a GRP system had broken away from the external walls of the interceptor. We recommended that a repair was made as the interceptor was no longer functioning correctly.

We made appropriate provisions to repair the interceptor and made a revisit with specialist staff and equipment. The interceptor was repaired using GRP patch repairs leaving the system fully functional at a fraction of the cost of replacing the interceptor.



Integrity Inspection

During an interceptor integrity inspection we found that the baffle wall on a GRP interceptor had become delaminated. This had caused the wall to become much weaker which had resulted in it partially dislodging and shifting by approximately 50cm, preventing it from functioning effectively.

The CCTV integrity inspection allowed us to assess the extent of the damage and make provisions to repair the system in a follow up visit.

Interceptor Repair

Once we had arranged all necessary equipment for the repair our specialist confined space entry repair team were able to undertake the repairs.

The interceptor was isolated to prevent any liquids from entering the system during the repairs.

As the access shaft was too small to allow entry into the system the inner secondary sleeve was cut away to create a suitably enlarged access to carry out the works. Our confined space entry team were then able to enter the interceptor in order to complete the repairs.





The failed baffle wall was then manipulated back into its correct position and fixed in place by steel L brackets and self-tapping screws.

The interceptor surfaces immediately surrounding the failed baffle wall were abraded and all loose debris removed to leave a suitable area to attach the GRP patch repairs.

The chopped glass fibre strand matting was then cut to size and applied to the failures and over the L brackets and sealed in place with polyester resin and styrene monomer. This was to ensure the baffle wall was impermeable to chamber contents and that any failure points to ground created by the screws were sealed simultaneously.

The removed GRP section around the access shaft was then refitted and bolted back in place following the repairs.

Once the repairs had cured the system was recharged to ensure the system and the repairs were structurally sound, leaving the system fully functional at a fraction of the cost of replacing the interceptor

