

John Smeaton Leisure Centre Swimming Pool



On Site Diving Personnel:-

*Mr. Neville Holgate
Mr. Paul McManus
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Works undertaken in accordance with received order from Mr. Andrew McCulloch of Leeds City Council.

Site inspections undertaken on 20th March 2014.



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MAIN SWIMMING POOL

Type of pool:- Deck Level/Skimmer

Size of pool:- 25m x 8.5m

Pool depth:-0.9m-2.0m

Pool Finish:- Tiled

Size of tile:- 242mm x 118mm

Colour of tiles:- White

Lane Marker Colour:-Blue

Size of Lane Marker tiles:- 242mm x 118mm

How many lanes:-4

Grout:- Epoxy

No. of inlet grids:- 2 nr.

No. of outlets:- 2 nr.

No. of skimmers:- 10 nr.

No. of entry step units:- 4 nr.

DEFECTS

Commencing Swimming pool base (changing room side).

Item 1

4 no. de-bonded tiles taking place to the swimming pool base approximately 1.5 metres from skimmer leading towards shallow end (Lane 1). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 2

6 no. de-bonded tiles taking place between 3rd Lane blue lane marker tiles within the swimming pool base. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 3

6 no. de-bonded tiles taking place to the top of the swimming pool base ramp (Lane 3)-3 either side. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 4

Approximately 20 no. de-bonded tiles taking place to the top of the swimming pool base ramp (Lane 4). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 5

2 no. de-bonded tiles taking place to the swimming pool base approximately passed the newly repaired area (Lane 4). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 6

1 no. de-bonded tile taking place to the swimming pool base adjacent to T-marker tiles (Lane 4). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 7

6 no. de-bonded tiles taking place to the swimming pool base adjacent to swimming pool circulation outlet grid. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 8

8 no. de-bonded tiles taking place to the swimming pool base adjacent to Item 8 (Lane 5). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 9

Approximately 15 no. de-bonded tiles taking place to the swimming pool base T- Marker tiles near ramp (Lane 5). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 10

8 no. de-bonded tiles taking place to the swimming pool base (adjacent to area of 1st repair) Lane 5. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 11

3 no. areas of tile de-bonding taking place to the swimming pool base adjacent to the 2 no. previously repaired areas (Lane 5). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**



Item 11

Tile de-bonding taking place to numerous areas within the swimming pool base adjacent to the 2 no. areas previously repaired (Lane 5). **At the time of our inspection, these were considered to be in a stable position, i.e. not lifting.**

Item 12

Tile de-bonding taking place to the swimming pool longitudinal end walls to the bottom two courses of tiles around the swimming pool tank perimeter adjacent to the base with some additional tiles continuing through a further 4 no. courses. **At the time of the inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 13

Approximately 64 no. tiles de-bonded to the swimming pool shallow end wall adjacent to skimmer (continuing through 2 no. courses). **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 14

Approximately 110 no. tiles de-bonded to 2 no. further areas adjacent to skimmer within the swimming pool shallow end wall adjacent to Item 13. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 15

Approximately half of the longitudinal side wall (deep end- life guard seat side) de-bonded from the top to the bottom courses of tiles. **At the time of our inspection, these were considered to be in a stable condition, i.e. not lifting.**

Item 16

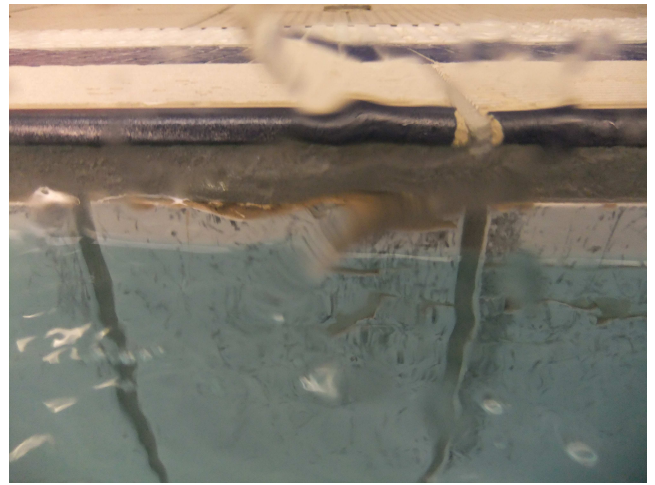
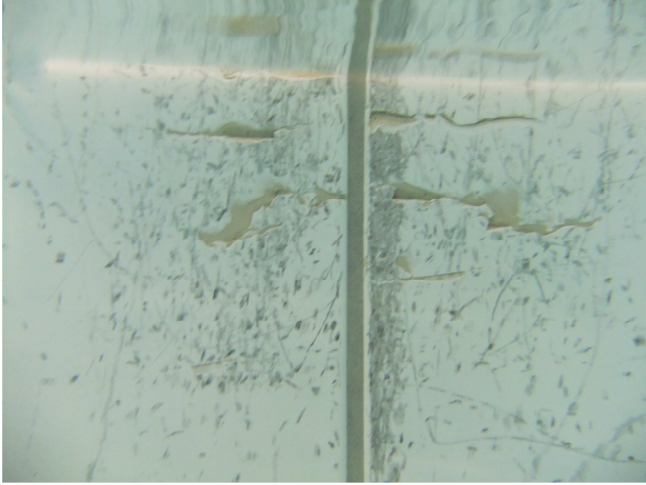
Damaged tiles taking place to the base of the swimming pool shallow end entry step unit.

Item 17

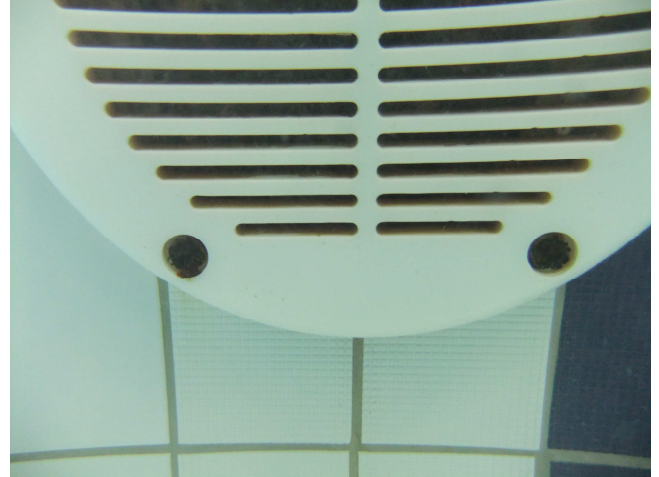
All existing fixings within the swimming pool circulation inlet grids- corroded.

PHOTOGRAPHIC EVIDENCE

Item 16- Damage to swimming pool longitudinal side wall – shallow end entry steps.

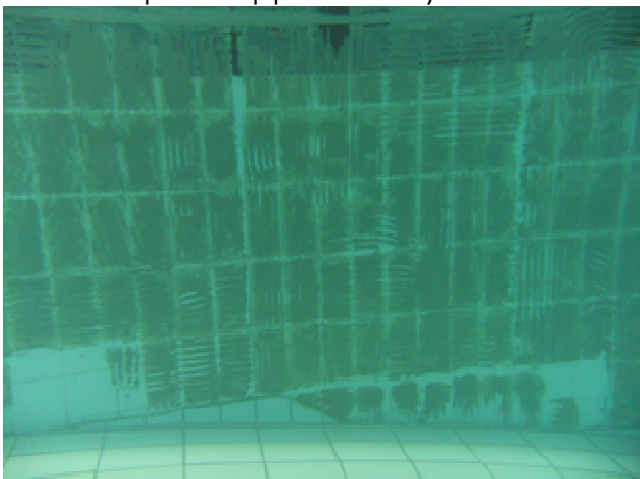


Item 17- All swimming pool circulation inlet grid fixings- corroded.



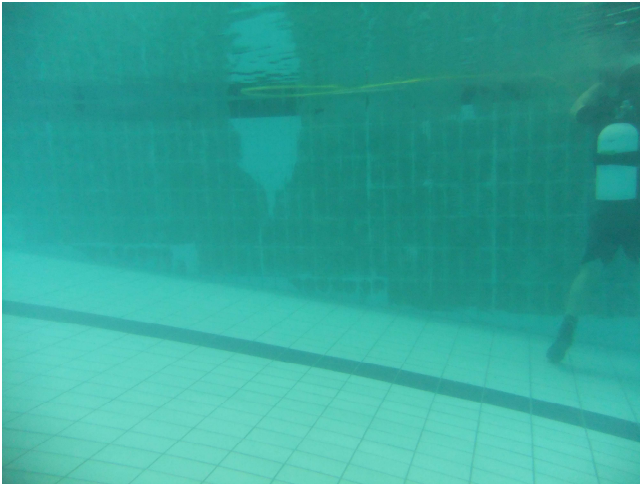
Exposed background of area of defective wall tiles – area of tile removed and HDP (High Density Polyethylene) panels position in place with 316 stainless steel fixings.

Area of repair is approximately 16m².



PHOTOGRAPHIC EVIDENCE

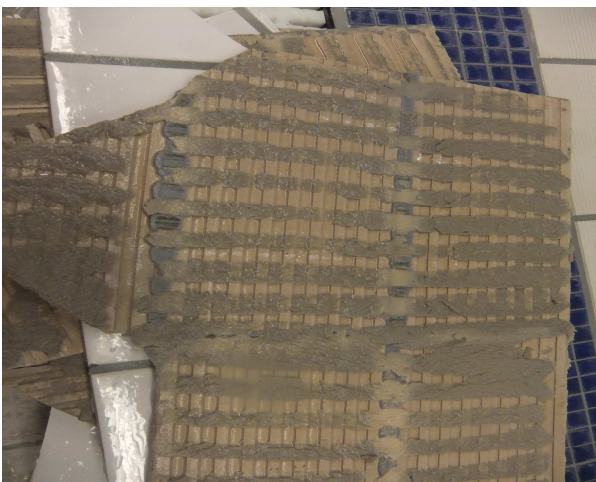
Upon removal of tiles, background identifies that a hairline crack is taking place to the wall which may have been a long term hairline crack as we cannot establish how long that has been evident.



We also identified that there was a hairline crack within the location of an area which had not shown signs of preparation similar to the newly exposed as there was no signs of adhesive adhesion once exposed.



Upon removal of the tiles the evidence was that the tiles had not been solid bed fixed as per the BS Guidelines.



RECOMMENDATIONS/CONCLUSION

With reference to the existing swimming pool tank and the defects identified, we would recommend that consideration be given to the following:-

De-bonded tiles within the swimming pool tank base:-

With regards to these items, there are a number of options to be considered. Stable tiles can in fact be in this condition for a number of weeks, months, years and as long as they are monitored can be repaired when budgets or works allow at a convenient closure period. Alternatively, tile replacement can be carried out as necessary utilising our underwater method of repair although there is a likelihood that the areas would extend at the time of the works.

De-bonded tiles within the swimming pool tank walls:-

With regards to these items, as there was an initial problem when undertaking a tile on tile application to the walls, if there was a consideration for other repairs to be carried out, we would suggest that the HDP (High Density Polyethylene) panel system be considered. This can be a permanent or temporary repair dependant on your requirements as many facilities have had this application until necessary refurbishments and budgets can be achieved.

Damaged tiles taking place to the swimming pool shallow end entry step:-

With reference to this item, the damage is being caused as a result of the step units being placed in and out of the swimming pool tank. A HDP (High Density Polyethylene) striker plate could be fixed which would prevent further damage to the tile face.

All existing swimming pool circulation inlet grid fixings- corroded:-

With reference to this item, we would recommend that these fixings be replaced utilising 316 stainless steel fixings to prevent possible insecurity of the units.



SWIMMING POOL SURROUNDS- OBSERVATIONS-

May we also take this opportunity to advise you that on visual overview of the swimming pool surrounds, it is apparent that various defects are taking place as detailed below for which we would be only too pleased to provide quotations at your request:-

Item 1:-

24 no. de-bonded tiles taking place to the swimming pool surround adjacent to entrance of plant room.

Item 2:-

4 no. de-bonded tiles taking place to the swimming pool surround adjacent to expansion joint near lifeguard seat.

Item 3:-

Approximately 11 no. tiles to either side of the swimming pool surround expansion joint adjacent to deep end entry steps de-bonded.

Item 4:-

Approximately 63 no. de-bonded tiles taking place to the swimming pool surround corner between expansion joints.

Item 5:-

6 no. de-bonded tiles taking place to the swimming pool surround deep end adjacent to expansion joint near rope lane anchor point.

Item 6:-

40 no. de-bonded tiles taking place to the swimming pool surround adjacent to fire exit continuing to balance tank grid. **(3 no. have become unstable and apexed).**

Item 7:-

30 no. de-bonded tiles taking place to the swimming pool surround (changing side) running through expansion joint passing deep end entry steps.

Item 8:-

63 no. de-bonded tiles taking place to the swimming pool surround below no diving sign adjacent to balance tank grid.

Item 9:-

9 no. de-bonded tiles taking place the swimming pool surround 2 courses away from Item 8.

Item 10:-

12 no. de-bonded tiles taking place to the swimming pool adjacent to expansion joint continuing through 3 no. courses of tiles towards shallow end.

Item 11:-

18 no. de-bonded tiles taking place passed swimming pool surround rope lane anchor point.

Item 12:-

Approximately 63 no. de-bonded tiles taking place to the swimming pool surround just beneath drown alarm continuing through expansion joint.

Item 13:-

18 no. de-bonded tiles taking place to the swimming pool surround beneath the lifeguard floatation device.

Item 14:-

22 no. de-bonded tiles taking place to the swimming pool surround continuing through expansion joint 2 courses from wall beneath No Diving Sign .

SWIMMING POOL SURROUNDS-OBSERVATIONS

Item 15:-

12 no. de-bonded tiles taking place to the swimming pool surround adjacent to drown alarm near changing room entrance.

Item 16:-

36 no. de-bonded tiles taking place to the swimming pool surround adjacent to Item 15.

Item 17:-

16 no. tiles de-bonded to the swimming pool surround adjacent to changing room entrance.

Item 18:-

80 no. de-bonded tiles taking place to the swimming pool surround adjacent to first aid room entrance between expansion joints.

Item 19:-

8 no. de-bonded tiles taking place to the swimming pool surround (shallow end) passed expansion joint.

Item 20:-

4 no. de-bonded tiles taking place to the swimming pool surround either side of expansion joint (shallow end).

Item 21:-

20 no. de-bonded tiles taking place to the swimming pool surround 2 courses from end of spectators wall continuing passed storage room.

Item 22:-

Approximately 60% of the existing swimming pool perimeter finger grip tiles throughout.

N.B. All de-bonded tiles are stable at the time of our visit excluding tiles identified as unstable and tiles adjacent to balance tank which require re-laying.



We hope our enclosed report will prove to be beneficial and assist you in the programming and budgeting for any future rectification work to be carried out.

Should you require any Estimates for the defects mentioned, we would only be too happy to forward these upon request.

UPS Ltd would like to thank you for your Official Order, should you wish to discuss this report or any other matter of which we can be of assistance to you, please do not hesitate to contact our office at your earliest convenience.



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Pool Services Ltd