

## EAST MIDLANDS AIRPORT WESTERN LAGOONS

Land & Water Services (LAWS) were contracted by WHC as a specialist subcontractor to remove a build up of sludge from 2 no. lagoons at East Midlands Airport based in Castle Donington, Nottinghamshire.

LAWS first carried out sampling and testing of materials within each location. The results confirmed that the lagoons were heavily contaminated as they take run-off water from the airport and runways where planes are de-iced.

Western Reservoir (winter and summer lagoons)– Starting with this lagoon meant a high pressure fireman's hose system could be set up and used within the bottom of the lagoon to move the silts towards the sump. A hydraulic cutter head pump unit was placed alongside the summer pond where water was drawn from and a 3" lay flat hose placed along the access road between both the winter and summer lagoons.

The material was pumped into 70m<sup>3</sup> holding tanks. The material was then pumped up to the collection area by large 6" pumps, the material was collected and transported by tankers and taken to an approved waste facility.

The lagoon was de-sludged using manual labour with several operatives using large squeegee accessories to move silt without damaging the liner. Water pumped from the summer lagoon allowed the material to be 'hosed' to the sump area for removal. Works then moved on to the ancillary structures (FDC, inlet chambers). When FDC was being cleaned out, the lagoon liner was repaired.

This project was concluded ahead of programme and the client was very happy with the overall success leading to further opportunities for LAWS on similar schemes.

Find us on the internet at

[www.land-water.co.uk](http://www.land-water.co.uk)

Contact us on 0844 225 1958



### Project Particulars

Client: Whitehouse Construction (For Manchester Airport Group)

October 2023 - November 2023



PROJECT

VALUE: £367,500