

Produced to inform the Highways bussiness unit of lessons learnt following an incident/NeMo/Obersvaton / SSER and or Best practice.

Date	3 rd April 2023
Topic	Confined Spaces- Best Practice
Business Unit	Highways- Local Authority North
Project	Syngenta
Lessons Learnt Completed By	Lee Bulman

Description

In the past Syngenta could only survey the internal foul drainage Manholes by completing a confined space entry and physically inspecting whilst taking photos.

On site there are over 500 Manholes (MH's).

The GT site team have worked with Syngenta and the GT Sub Contractor 1st horizon to trial and undertake 3D laser scans of the MHs using intrinsically safe equipment. The unit/ 3D scanner is lowered into the open MH which has been vented for 1 hour and it takes thousands of measurements and images and develops the information for you in the screenshots. It is currently able to produce images up to 7m deep.T

he use of this technology eliminates the need to complete confined spaces entries by persons, so far over 40 entries have been avoided.

The niche part of this service, is the intrinsically safe unit/ 3D scanner being used inverted into a drain rather than sat on a tripod scanning a room.

By using this technology the site team have complied with the basic requirements of the Confined Spaces Regulations, by avoiding /eliminating the need and so risks associated with person entry.

Photos



Key Learning /Recommendations

- The use of this technology, reduces the need for person entry into a condined space, also reducing the risks associated with confined spaces entry and working.
- The 3D images received are to a very high quality and accurate in contents etc.
- This method of works greatly reduces time and increases efficiency.
- There is a reduction in labour allocation to the works (no rescue teams required).
- The client at Syngenta have relised the benefits of using this technology and are very impressed with the results so far.
- The site team at Syngenta are presently carrying out an in- depth case study into the use of this technology for all sites within Highways/ GT.