



### Customer Challenge

The secure, underground location required high output visual alarms with long cable runs. Signalling was critical due to the significant hazard of the waste being stored.

Vehicles frequently travel through the underground site along narrow tunnels so it was very important to prevent the risk of damage to the devices.

Due to the underground nature of the facility, water continuously runs down the walls so the integrity of the installation was critical to ensure no water ingress.

### Fircroft Solution

The solution design utilised over 200 Fircroft DUO High Output strobes that were powered from 28 volt DC monitored power supplies.

Each DUO strobe device was mounted between 3.5m and 5m high to enable maximum coverage of 720m<sup>3</sup> and to negate the risk of damage from passing vehicles.

Fircroft specially designed and manufactured bespoke IP65 back boxes and brackets. Our factory pre-mounted bases onto a glanded bespoke stainless steel plate to further reduce the risk of moisture penetration. This made installation significantly easier and much quicker.

### Customer Benefits

High Output VAD signalling installed at a high level (up to 5 meters) using the Fircroft DUO meant that coverage was maximised to reduce the number of devices required. This design subsequently reduced the installation cost to the client.

It also ensured that devices could be mounted well above vehicle height to avoid any traffic damage.

The EN54-23 approved Fircroft DUO devices enabled long runs of cable to be used with many devices connected to the circuit and remaining fully operational at low voltage.

