

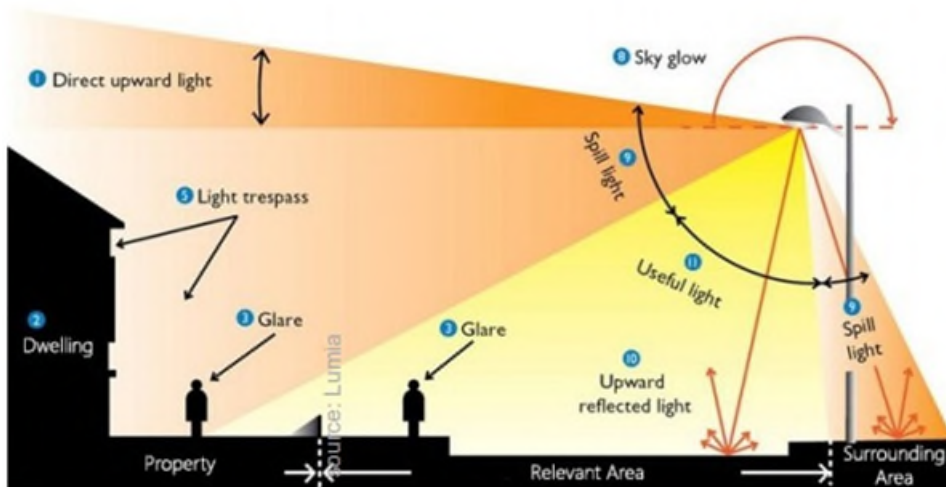
Lighting Schedule and Assessment Report.

Introduction.

Our lighting impact assessment report is prepared to assess, in terms of artificial lighting, the likely effects to a surrounding area of a proposed development. We provide lighting assessments that include information on the baseline lighting conditions within the proposed area and consider possible mitigation measures to help reduce potential light spill into neighbouring properties at the site boundary.

Other very important factors such as ecological receptors, upward light (which can create sky glow) and visual source intensity (glare) are also carefully considered and detailed in our reports.

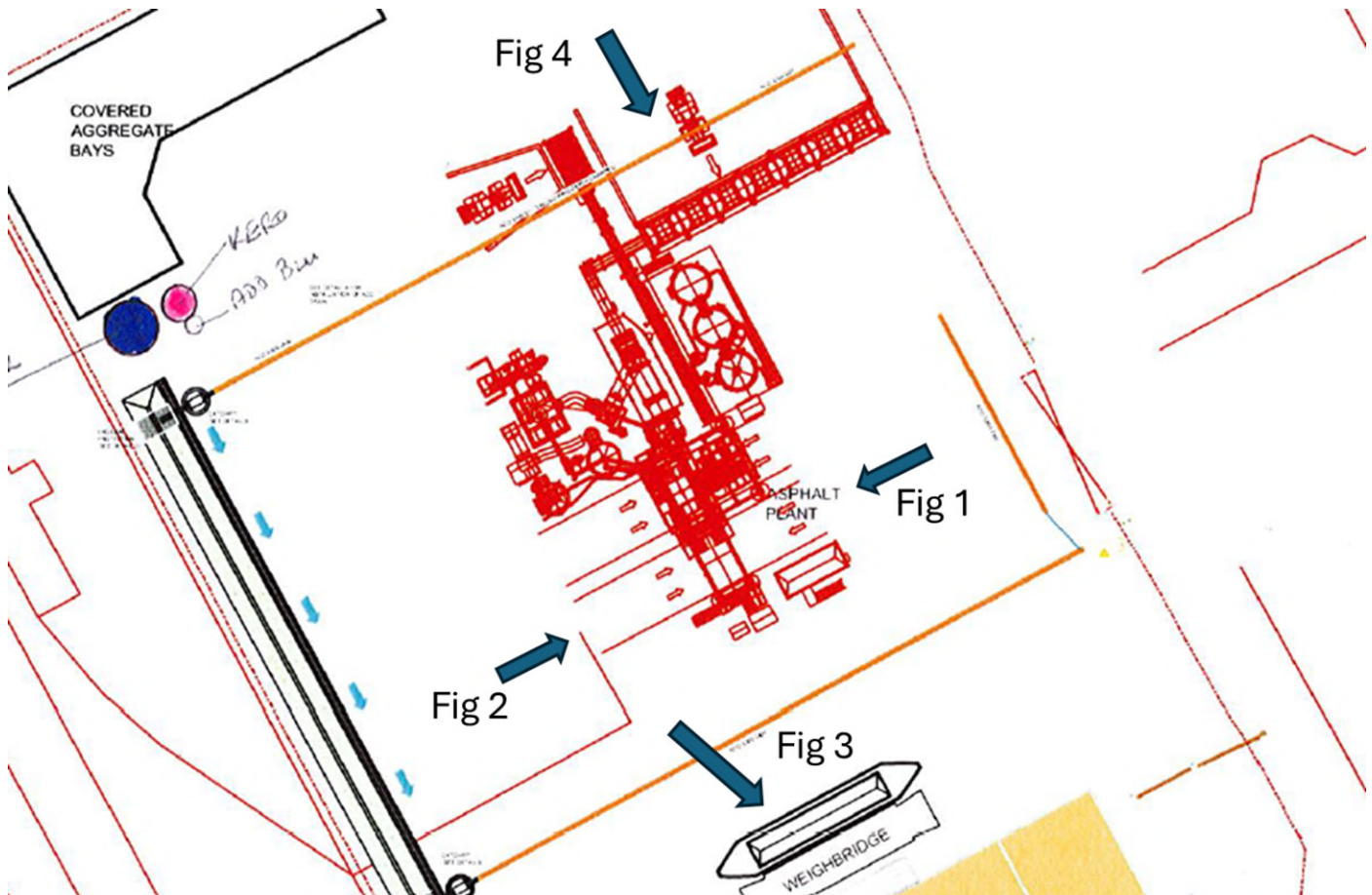
Within our lighting impact assessments we detail and discuss the different types of obtrusive light, the diagram shown below helps to visualize the potential impact of the different types of obtrusive light:-



Directional lighting can provide useful light while avoiding spilling onto unwanted areas like residential buildings

Site Plan view and layout of plant and schedule and assessment area.

To compile the detailed External lighting design, exterior lighting calculation reports were completed using Lighting Reality design software with a detailed specifics to align and install to minimise excessive lux and over spill to adjoining business and properties.



Site Schedule and Assessment LUX levels at night to show if any obtrusive light is present.

Assessment conducted during dusk and dark levels to assess if any obtrusive levels are visible. Fig 1 Fig 2, Fig 3, Fig 4, show all sides of the site, with all illumination kept within boundary and no obtrusive light escaping.

The angle of the light fittings omits any upper obtrusive light therefore no obstructive excess recorded.

The assessment has shown all lux levels gathered at site during this time are within allowances.

FIG1

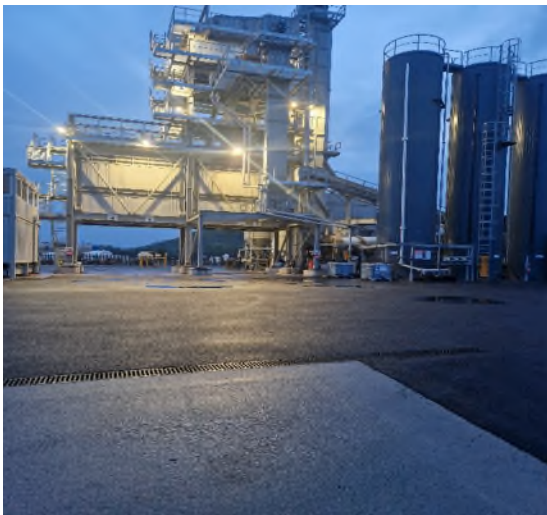


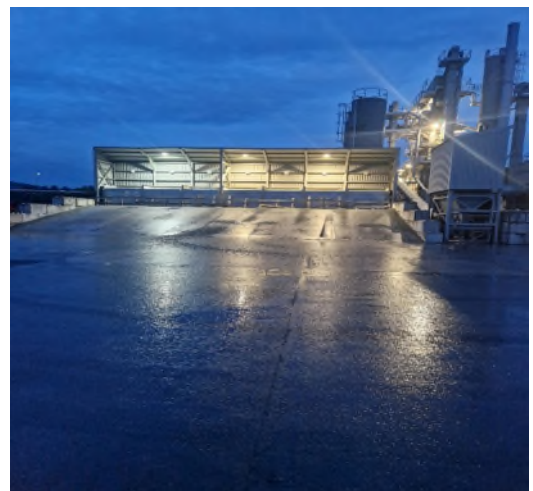
FIG2



FIG 3



FIG 4



Lighting Schedule and assessment Lux level detail.

Fig 5. is the recorded result of the lux level at the foot of the plant.

FIG 6. is a recorded lux level 10meters from the centre of the plant.

FIG 7. is the recored lux level at the gated entry point.

FIG 8. shows the access road and site with a clear defined line of light.

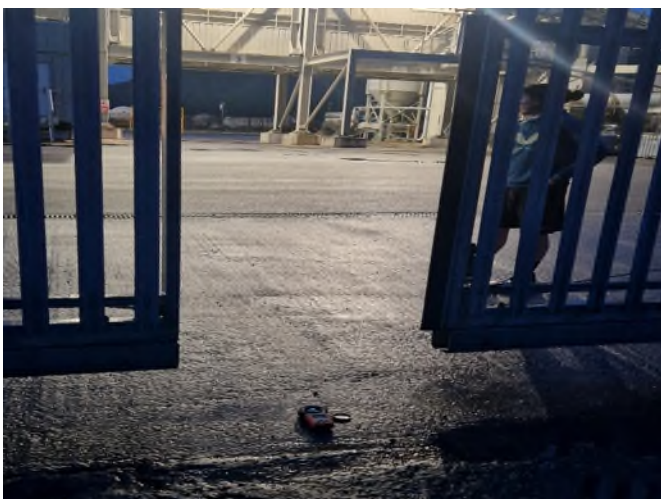


FIG 7



FIG 8

Lighting schedule and assessment of design and evidence not to breach boundary lines with obtrusive light.

Pictorial evidence of perimeter illumination level on to adjoining roadways.

FIG 1 + 2 adjoining access roadways.

FIG 1



FIG 2



The above Fig clearly shows a defined line between illumination of site and the adjoining road.

The above site illumination will only be apparent when the site is working after dark within sites footprint and boundaries.

From our assessment we can conclude that due to control measure taken by site to reduce risk and obtrusive excess lighting via time clocks and photocells, the automatic action to turn off has been executed, giving as little light pollution as possible and no obtrusive light is a factor at this assessment.

Note:-

The lighting will only be on during working hours that are :-----

Breakdown of fittings installed at site.

- 1, 5 x 200w led flood lights to first floor level each to point directly down at floor against black asphalt.
- 2, 5 x 50w led floods to the 3rd floor each pointing into the plant on both north and south elevations.
- 3, 5 x 50w led flood lights to the 5th floor each pointing down to illuminate floor and plant.



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During our schedule and assessment we ascertained the existing building had lighting already installed via an uncontrolled device, this has now been addresses to follow the same protocol as the new asphalt plant control (detailed above). A definite improvement is visible from our assessment. Picture below



I therefore declare to the best of my knowledge that all the information provided was correct at the time of the schedule and assessment.

Many thanks Gary Preece.