



The Vale of Glamorgan Council
Planning Department
Docks Office
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Our Ref: NS/22-15233 (BR13)
Your Ref:
Date: 11 December 2017
Contact: Watch Manager N. Suller
Tel: 07774 219539
E-mail: firesafety@southwales-fire.gov.uk

Dear Sir/Madam,

**TOWN AND COUNTRY PLANNING ACT 1990
PROPOSAL: THE CHANGE OF USE OF LAND AS AN EXTENSION TO THE
EXISTING WASTEWATER TREATMENT WORKS SITE
LOCATION: COG MOORS WASTEWATER TREATMENT WORKS, CARDIFF
ROAD, DINAS POWYS**

I acknowledge receipt of the notification to the South Wales Fire and Rescue Authority in relation to the above application.

The proposed site plan in relation to the above has been examined and the Fire and Rescue Authority wish the following comments to be brought to the attention of the committee/applicant. It is important that these matters are dealt with in the early stages of any proposed development.

The developer should consider the need for the provision of:-

- a. adequate water supplies on the site for firefighting purposes; and
- b. access for emergency firefighting appliances.

Should the applicant require further information in relation to these matters they should contact the above named fire safety officer.

Yours faithfully,

Duly signed and authorised by

A handwritten signature in black ink, appearing to read 'N. Suller'.

for Assistant Chief Fire Officer

Enc: BR13 Appendix

Appendix

1.0 Access For Fire Appliances

Typical vehicle access route requirements:

Appliance Type	Min Width Road	Min Width Gate	Min Turning Circle between Kerb
Pump	3.7m	3.1m	16.8m
Aerial Appliance	3.7m	3.1m	26.9m

Min Turning between Wall	Min Height Clearance	Min Capacity Tonnes
19.2	3.7m	12.5
29.0	4.0m	23

Pedestrian Priority

Pedestrian schemes must take into account the need for permanent and unobstructed access for firefighting appliances. The siting of ornamental structures such as flower beds, must take account, not only of the access requirements of the fire appliances but the need to be able to site them in strategic positions; in particular, account must be taken of the working space requirements for aerial appliances. Consultation must take place with the Fire Authority during the earliest planning stages of any development to ensure adequate access for fire appliances, their siting and use.

2.0 Water Supplies for Firefighting

The existing output of the statutory water supply network may need to be upgraded in certain parts of the local plan area to cater for firefighting needs of new developments. It is recommended that this provision be a condition of planning consent.

Access to Open Water Supplies

Where development of water front sites takes place, the need for permanent and unobstructed access for firefighting appliances to the water should be made a condition of any planning consent.

Consultation must take place with the Fire Authority during the earliest planning stages of any development to ensure access for fire pumping appliances is satisfactory.

2.1 **Housing**

Minimum main size 100mm. Housing developments with units of detached or semi-detached houses of not more than two floors should have a water supply capable of delivering a minimum of eight litres per second through any hydrant on the development.

Housing developments with units of more than two floors should have a water supply capable of delivering a minimum of 20 to 35 litres per second through any hydrant on the development.

2.2 **Transportation**

Lorry/Coach Parks - Multi-Storey Car Parks-Service Stations

Minimum main size 100mm. All of these amenities should have a water supply capable of delivering a minimum of 25 litres per second through any hydrant on the development or within a vehicular distance of 90 metres from the complex.

2.3 **Industry**

In order that an adequate supply of water is available for use by the Fire Authority in case of fire, it is recommended that the water supply infrastructure to any Industrial estate is as follows:

Light Industrial

Minimum Main Size 100mm
Up to one hectare, 20 litres per second

Commercial/Industrial

Up to two hectares, 35 litres per second - Minimum Main Size 150mm

High Risk Industrial

Two to three hectares 50 litres per second - Minimum Main Size 150mm.
Over three hectares, 75 litres per second.

In rural areas it may not be possible to provide sufficient mains water. To overcome this, static or river supplies would be considered on site at the above flow rates for at least one hour.

The Fire Authority should be consulted at the outline planning stage of any proposed projects to ascertain the exact requirements, as high risk units may require a greater flow.

2.4 Shopping, Health and Community Facilities

Village Halls

Should have a water supply capable of delivering a minimum of 15 litres per second through any hydrant on the development or within a vehicular distance of 100 metres from the complex.

Primary Schools and single storey Health Centres

Should have a water supply capable of delivering a minimum of 20 litres per second through any hydrant on the development or within a vehicular distance of 70 metres from the complex.

Secondary Schools, Colleges, Large Health and Community Facilities

Should have a water supply capable of delivering a minimum of 35 litres per second through any hydrant on the development or within a vehicular distance of 70 metres from the complex.

2.6 Distances Between Fire Hydrants

The distance between fire hydrants should not exceed the following:

Residential areas	-	200 metres
Industrial Estates (Subject to operational needs)	-	150 metres
Town centre areas	-	90 metres
Commercial (Offices & Shops)	-	100 metres
Residential Hotels	-	Adjacent to access
Hotels	-	Adjacent to access
Institutional (Hospitals & Old Persons Homes)	-	Adjacent to access
Old Persons Homes	-	Adjacent to access
Educational (Schools & Colleges)	-	Adjacent to access

2.7 Conclusion

Developers should hold joint discussion with Dwr Cymru - Welsh Water or the National Rivers Authority and the Fire Authority to ensure that adequate water supplies are available in case of fire. the Fire Authority reserve the right to ask for static water supplies for firefighting on site as a condition of planning consent, if the supply infrastructure is inadequate for any given risk.