



Emsworth Primary School Extensions
Drainage Statement

General

Emsworth Primary School is located in Victoria Road, Emsworth, Hampshire, postcode PO10 7LX.

The proposal is to build a new two classroom extension to provide additional teaching facilities. The total development area will be approximately 0.1 hectare and will include some internal re-modelling. No increase in impermeable area is anticipated as the extension will be constructed upon existing hardstanding.

The Environment Agency flood maps indicate that the site is located within Flood Zone 1 where the lowest annual probability of flooding occurs, that being less than 1 in 1000 for any given year. As the site is in Flood Zone 1 and development area is less than 1 hectare no Flood Risk Assessment will be required to support the planning application.

Foul Water

Southern Water sewer records show the public foul water sewer currently located in Victoria Road. The school has an existing connection to this 225mm diameter public sewer.

The existing foul water drainage for the school runs internally as 100mm diameter pipe before changing diameter to 150mm south-west of the school building.

A new 100mm diameter foul water connection is to be made internally to serve the proposed extension. The invert level of the existing internal foul water manhole is to be confirmed on site by the contractor. It is proposed to connect two additional sinks from the proposed extension. As the increase in foul water flow is deemed to be negligible it is anticipated that the existing system has capacity for the new connection.

Surface Water

A site investigation undertaken in February 2004 confirmed that the geology of the site is London Clay. The ground conditions are described as a coarse-grained unit of orange clayey silty sand grading into a fine-grained unit of sandy gravelly silt/clay. It has been confirmed that soakaways are not suitable for this site.

Surface water currently drains into the 200mm diameter public sewer in Victoria Road. The existing private surface water system has been investigated within the site and CCTV surveyed. It has been confirmed that the system does not drain properly and the historic flooding on this site was caused mainly by insufficient capacity of the private and public system and the lack of maintenance of the playground drainage. Gullies, catchpits and pipes have now been cleaned out and a drainage maintenance plan supplied to the school caretaker.

Surface water will continue to discharge to the private surface water system. The system is currently overwhelmed and it shows several defects of broken pipes, pitch fibre pipes and standing water. The decision to replace the existing surface water pipes is currently under review and the decision is awaited.

A number of shallow aco channels is proposed to be installed as part of the development. The size of these channels is to be confirmed as part of the detailed design by the Design and Construct Contractor.

