

## Cerys Jones

---

**From:** Sharon Holman  
**Sent:** 22 March 2021 13:09  
**To:** planning\_admin  
**Subject:** FW: P/2020/0831 - Land off Abbey Road Wrexham  
**Attachments:** PPS-V-Series-Operating-Manual-VP-M-V2-01.19.pdf

Civ - Please attach as separate PDFs - 'Dis of condition – drainage submission' below and attached.

---

**From:** Sharon Holman  
**Sent:** 13 January 2021 13:01  
**To:** planning\_admin  
**Subject:** P/2020/0831 - Land off Abbey Road Wrexham

Civ:

'Dis of cond – drainage submission' below and attached.

---

**From:** Jenny Coxon [<mailto:jennycoxon@caulmert.com>]  
**Sent:** 12 January 2021 19:18  
**To:** Sharon Holman  
**Subject:** RE: P/2020/0773 - Variation Application Land off Abbey Road Wrexham

Hi Sharon,

I have spoken to our drainage engineer and have set out his response below.

Details of a sump pump should be made available once a detailed design has taken place.

The sump needs to be sized to accommodate two pumps (duty/standby) in the concrete slab or as a pre-formed polypropylene unit beneath the slab (depending on ground conditions and structural design requirement). The anticipated pumping rate is between 200 and 300 litres per minute (based on the notional drained area). The pump would be operated by a float – on at high level, off at low level. Annual maintenance is required to be undertaken, performed by owner of warehouse facility.

Surface water can enter the sump via a channel drain along the width of the load leveller bays.

Surface water flows in excess of pump capacity (or in case of pump failure) would pass by gravity to the landscaped area on the north side of the service yard. This is topographically lower than the warehouse FFL.

I would recommend a high level sump alarm and a battery power backup as part of the pump's installation.

A typical submersible pump detail is attached for illustrative purposes only.

I trust that this information is sufficient to satisfy comments from the SAB, and to avoid a condition.

Kind Regards,

Jenny