

**C. S. Birks  
Associates Ltd  
Chartered Building  
Surveyors**

**Eastnor Castle Estate**

**Woodyard Café**

**Sewage Treatment Scheme**

The proposal is to install a sewage pumping station on the Woodyard Café site and pump the sewage across to the main reedbed and sewage treatment system at the castle.

The pumping station will be a Saturn 2m sewage pumping station with a capacity of 3530 litres, which provides 24 hour storage. The station will be equipped the two vortex pumps, complete with a control kiosk and both an audio and visual alarm. This will cope with a capacity of two hundred people per day and with a pumping capacity of 442 litres per second. The discharge pipe work will be a 90mm external and 79mm internal diameter pipe all in black HPPE (PE 100). The pump will be a single phase electrical pump

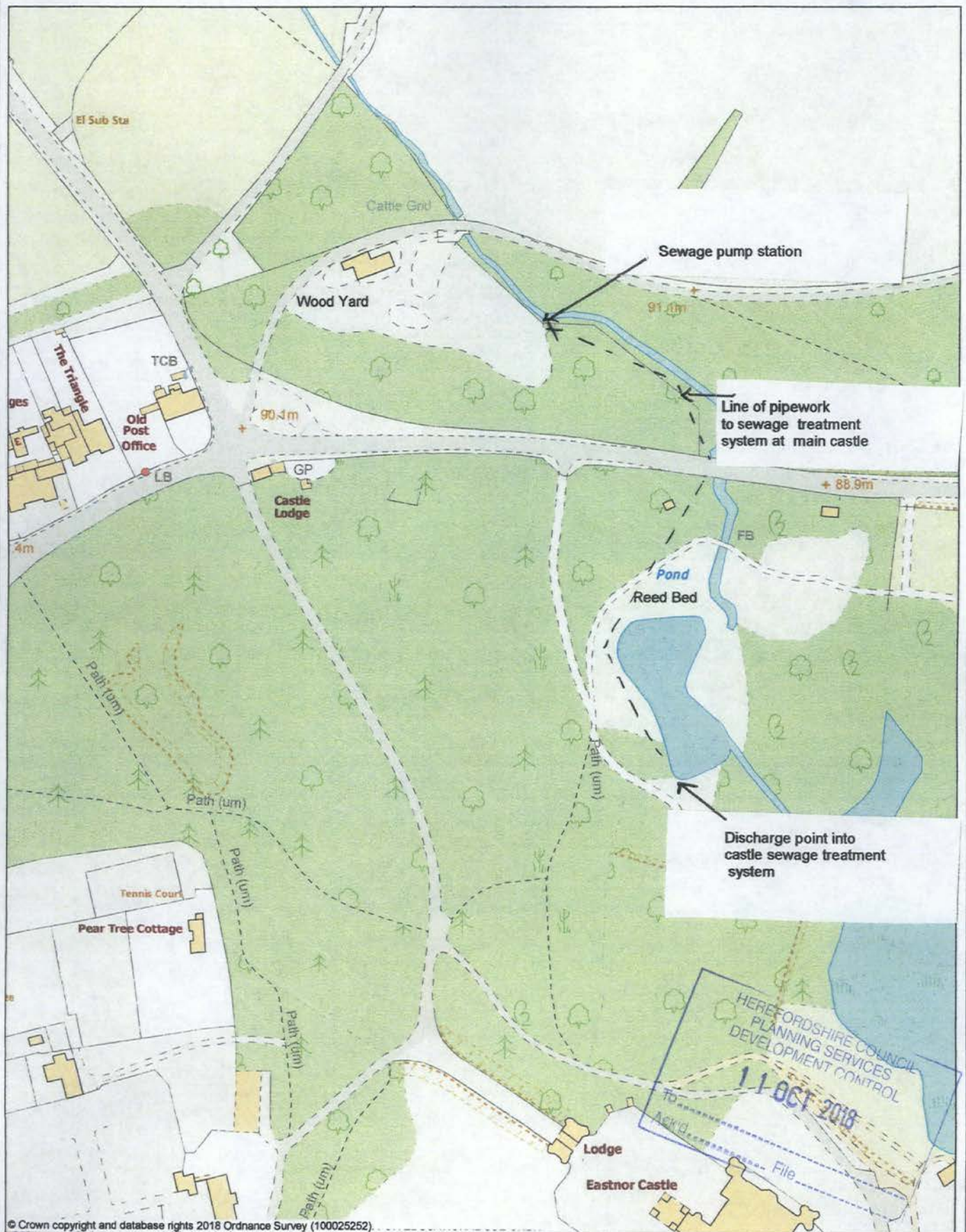
(Technical details are attached)

C. S. Birks FRICS  
October 2018





# Drainage to new the Cafe



Digimap®

Ordnance Survey

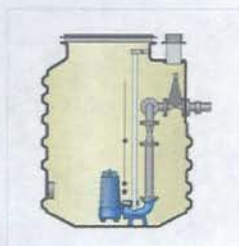
Scale 1:2000  
0 10 20 30 40 50 60 70 80 90 100 m  
Projection: British National Grid

HEREFORDSHIRE COUNCIL  
PLANNING SERVICES  
DEVELOPMENT CONTROL  
11 OCT 2018  
To: [illegible]  
File: [illegible]





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NBS Plug-in for Autodesk® Revit® v3.2 update is available. [Learn more >](#) ✕[Home](#) / [All categories](#) / [Water tanks and cisterns](#) / [Geocellular modular plastics storage units](#)

## Saturn® Dual Pump

Select regional version:

UK

Rest of the world



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The object content is configured for use in UK, but it may also be suitable for use in other locations.



Revit



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The Saturn pumping station is designed for the efficient and economical disposal of sewage and surface water, from housing developments, as well as effluent and pollutant disposal in commercial and industrial schemes. Chambers are manufactured from strong, medium density polyethylene, therefore the smooth internal walls aid the hygienic disposal of effluents, avoiding smell and septicity. The chambers have passed rigorous testing to comply with BBA approval.

Packages come complete with pipework pre-assembled in the chamber, ready for installation into the ground, after which the pumps and control equipment are added. The Saturn chambers have a holding capacity of 3500-7800 litres and are suitable for small housing, industrial and commercial developments, restaurants, small hotels, nursing homes and camping sites, larger capacities are available to special order. The units are available on short lead-times to fit in with tight schedules.

Platform	Compatible	Version	Certified to
IFC	-	2	1.3
Revit	2016 +	3	2.0

## Properties and values

COBie

NBS\_General

NBS\_Data

**IntegralAccessories** Mechanical and Electrical Pumping Station Assembly**UnitSize** 1624 x 2015 -4500 mm

Pset\_PumpTypeCommon

More information

More BIM objects



Reference QK23599 - Date 09/10/2018

Mayglothing Waste Ltd  
Yaidon  
Penrhos  
Kington  
Herefordshire  
HR5 3LH

Phil Marron

Tel No :

01544 230364 /  
07790 770664

E Mail :  
Dear Sirs,

phil@mayglothingwaste.com

Re : 2m Saturn Pump Station

We thank you for your valued enquiry, and now have pleasure in submitting our best offer for the most suitable equipment for the above scheme on a supply only basis as detailed in the following.

1 No	Saturn	2m Package Pumping Station	Supply Only Basis,
------	--------	-------------------------------	--------------------

**Please note:** As the invert depth is not known, we have assumed it is no deeper than 1.2m below cover level.

We have also assumed the 2m head given is from cover level. If these assumptions are incorrect, please advise and we shall requote.

Packaged Pumping Station, incorporating 80 mm pipework and valves all assembled and housed in a strong polyethylene chamber, with a 5 Tonne smwl (44 tonne gross laden) access cover.

A fully automatic control panel, activated by level switches complete with pump trip / high level alarm with

audio/visual warning are incorporated as standard.

The Package Pumping Station is supplied fully assembled and ready for installation on site.

A detailed

Installation Manual is supplied, allowing for easy installation by a competent builder or ground

worker. The pumping station can be fully operable within a couple of days from delivery.

Reference QK23599 -  
Date 09/10/2018

**Quotation**

**PACKAGE PUMPING STATION**

Serving :

Pump Duty:

Flow

7.19

Total Duty Head

Qty

Pump:

Model

DGO 200/2/80  
A1CM5

Foul Water. 3m<sup>3</sup> storage requested  
4.00 l/s

metres

2

Motor

Submersible

80

kW

1.70

kW

FLC

11.2

Voltage

230

Phase: 1

Rating

Amps:

:

Cable Length

10

m

mm Solids Handling

m





Operation Mode	Auto	(duty/standby)
Control Specification :		
Panel:		IP 54 Steel enclosure c/w run/trip indicators, pump trip / high level warning alarm & volt free contacts.
(Not suitable for outdoor use unless installed within a kiosk - please see optional extras)		
Level	3	No Float
Control		Switches
Chamber :	Model	Length:
	<b>Saturn</b>	Product
		Reference :-
		PP/
Diameter	1.500	metres
Depth	2.000	metres
Inlet Size	150	mm I/D
		160 mm Outside Diameter
Chamber Pipework:	80	mm
Valves:	Gate Valve	80
Reflux Valve	80	mm
Access	Size mm	1200
Cover:	x	900
		Opening,
		Not suitable for Highways,
Loading		5 Tonne smwl (44 tonne gross laden)
Outlet Pipework (not included, for provision by others)		
Recommended	79	mm Inside Diameter
Rising Main :		Black HPPE (PE100) SDR17
Size of HPPE adaptor :	90	mm Outside Diameter
Pumping Station Pipework	90	mm HPPE Adapter
Termination Point :		(included)
Unit Price for Supply Only :		Net + VAT at prevailing rates where applicable.
Delivery Period	1 to 2	Weeks from receipt of an official order.
Carriage:	Included	As one drop with off Loading by Client.
Extra for M & E		Net + VAT (Based upon a Single Specific Visit)
Commissioning:		
Optional Extras		
IP65 Control Kiosk		Net + VAT at prevailing rates where applicable.
1250 H x 750 W x 400 D for a Single Door Mild Steel Kiosk. (Green)		
160 mm Inlet Assembly		Net + VAT at prevailing rates where applicable.

Reference QK23599

Date 09/10/2018

#### Quotation

PACKAGE PUMPING STATION

Exclusions :

- a) Civil works relating to installation of package pumping station.
- b) Excavation / Backfilling .
- c) Pipework connection outside of package pumping station.
- d) Installation / Commissioning.

**Notes :**

- 1) The above prices are net and do not include for any main contractor discounts or retentions.
- 2) Mayglothing does not accept liquidated damages.
- 3) A comprehensive Installation Manual is provided, any requirement beyond the standard Conditions of Contract must be specifically agreed with Mayglothing, and confirmed in writing.
- 4) The cable lengths offered for the pumps and level control will allow the control panel to be sited a maximum distance of 4.75 metres from the pump chamber, with the control

panel positioned not more than 1.5 metres above the cover level, having the cable ducting running in the most direct route.

If you have doubts about the cabling requirements please contact us and we will be happy to assist.

- 5) The pump offered are designed to transfer bodily waste, toilet paper and household wash waters only. Sanitary towels, condoms, cotton wool and other such items should not enter the pumping station.

Validity:

This quotation is valid 30 days from the date of issue.

Service and Maintenance Agreement is valid for 6 months from the date of issue.

Terms:

Terms and Conditions of Sale are available on our website

**Storage and Retention:**

We can confirm that our offer complies with the storage requirements of 3m<sup>3</sup> 'assuming that the

cover level is the first point of overflow.

If you have a specific retention requirement other than that which we have confirmed as above, please

confirm the details of your requirements and we shall revise our offer where possible to suit.

**Design Statement:**

Please note that as part of this quotation, we endeavour to include all design features as per your request. If

however we have failed to include a specific requirement within our quotation that you do require, please

confirm so by return so that the quotation can be quickly revised. Any items not included for within this

quotation will be fully chargeable should they be required at a later date.

**Discharge Consent:**

Prior to order, please ensure that you have raised the appropriate sewer connection application with your local

water authority to confirm that the flow rate proposed from this pumping station design is acceptable should the

system be discharging into an existing sewer network.

We endeavour to offer the correct pumping station design for the application, however your local water authority

may apply flow rate restrictions which in turn will affect the pumping station design.

Mayglothing will not accept or reimburse any costs should you choose to install a pumping station at your own risk, without the necessary consent in place.

**Septicity:**



Steps have been taken within this design to keep the risk of septicity occurring to a minimum. Our calculations based upon the information provided at enquiry stage, additional septicity control methods are available should this be of interest to you.