# WARBOYS SOMERSHAM AND PIDLEY INTERNAL DRAINAGE BOARD

At a Meeting of the Warboys Somersham and Pidley Internal Drainage Board held at the Lakeside Lodge, Pidley on Thursday the 21st November 2019

PRESENT

| | |
|---|---|
| M P England Esq (Vice Chairman) | T E A Noble Esq |
| D D Brown Esq | J M Short Esq |
| The Lord De Ramsey | D R Stokes Esq |
| A Edgley Esq | Mrs J E Tavener |
| I Johnson Esq | H W Whittome Esq |
| C W King Esq | S W Whittome Esq |

Mr Robert Hill (representing the Clerk to the Board), Mr Malcolm Downes (Mechanical & Electrical Engineer) and Mr Robert Wilmer (District Officer) were in attendance.

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In the absence of the Chairman, the Vice Chairman took the Chair.

## Apologies for absence

Apologies for absence were received from Miss L C Munns, D W Cornwell Esq, D J Edwards Esq, D W England Esq, J German Esq, M E Heading Esq, C Leadbetter Esq, G R Munns Esq and C E Robinson Esq.

## B.1655 Declarations of Interest

Mr Hill reminded Members of the importance of declaring an interest in any matter included in today's agenda that involved or was likely to affect any individual on the Board.

The Vice Chairman declared an interest in minute no. B.1665

The Lord De Ramsey and Messrs H and S Whittome declared interests (as Members of the Middle Level Board) in any matters relating to the Middle Level Commissioners.

## B.1656 Inspection of District

Prior to the Meeting those Members present, together with Mr K German and with the exception of Messrs Edgley, Noble, Stokes and H and S Whittome, undertook an Inspection of the District which embraced (inter alia):-

i) High Fen Pumping Station

Members viewed the footbridge and the District Officer advised that the contractor had made exploratory digs for the new foundations and was due to remove the bridge for refurbishment the next day (22nd).

Mr German informed Members that the drain did accumulate silt deposits and needed to be on a two year maintenance programme. The District Officer referred to issues with

the depositing of spoil and that on some sections the spoil was still in place from two years ago.

The District Officer referred to the removal of rubbish from the new weedscreen cleaner once installed and that the Board would need to give consideration to how this could be done as there were already problems at other pumping stations.

ii) Water Control Structure, Point 11 – Fenton Lode

Mr German informed Members that approximately three years ago the District System was re-organised and the control structure refurbished, which is the only water intake for the Pidley catchment.

iii) Water Control Structure, Point 189 – Fenton Lode

Members viewed the water control structure which provides an 'overspill' to allow water into the High Fen and Puddock catchments and, if required, to be evacuated via Puddock pumping station. Mr German pointed out the tree and restricted gateway, which caused difficulty for the movement of plant and informed Members that, due to the overhead power lines, it was not possible to carry out slubbing works from this side of the watercourse.

iv) Washways pumping station and eastern side of Fenton Lode to Point 9a – Fenton Lode

Mr German informed Members how the berm leading to Washways pumping station had been raised over a number of years through the depositing of spoil from routine maintenance works and that this now needed clearing and the berm reinstated to its' original design level. He referred to problems further along the watercourse where, following the depositing of spoil and through run-off from the adjacent packaging plant, the bankside had become unlevel which affected machine stability and made maintenance works hazardous and that this section of bankside would need to be 'squared off' in the near future.

v) Point 6 – Washways Discharge Channel

Mr German referred to the build-up of spoil on the berm and that this would need to be cleared and the berm reinstated to the original design level in the near future. The District Officer informed Members that this section used to be on a three year maintenance cycle but was now on a two year cycle. Mr German referred to the maintenance works further along the channel where it was possible to deposit the spoil onto the adjacent agricultural land but, due to the development around Point 6, this was not possible. He referred to overhanging trees around Point 5a which would need to be dealt with to allow machine access for the next planned maintenance works.

vi) Westmoor pumping station

The District Officer referred to the difficulty in getting access to remove the rubbish deposited from the automatic weedscreen cleaner and suggested that if either a trailer or weed grab was used the gates would need re-positioning to allow clear access to the dump area.

vii) Puddock pumping station

Mr Hill informed Members that the Middle Level offices had been approached concerning the purchase of approximately 0.10ha of land on the bank of the Forty Foot River and that this matter would be discussed further at the meeting following the inspection.

B.1657 Confirmation of Minutes

RESOLVED

That the Minutes of the Meeting of the Board held on the 6th June 2019 are recorded correctly and that they be confirmed and signed.

B.1658 Election of Members of the Board

Mr Hill reported that, as the number of candidates for membership of the Board did not exceed the number of persons to be elected (twenty one), the following candidates were elected as Members of the Board for a period of three years from the 1st November 2019, viz:-

| | |
|---|---|
| BROWN, Daniel | KING, Christopher |
| CORNWELL, David | LEADBETTER, Charles |
| DE RAMSEY, The Lord | MUNNS, George |
| EDGLEY, Arthur | MUNNS, Lucy |
| EDWARDS, Daniel | NOBLE, Thomas |
| ENGLAND, David | ROBINSON, Charles |
| ENGLAND, Mark | SHORT, Jonathan |
| GERMAN, James | STOKES, David |
| HEADING, Marc | WHITTOME, Hugh |
| JOHNSON, Ian | WHITTOME, Stephen |

Mr Hill also reported that Mr O Owen did not seek re-election..

(NB) - Councillors Mrs J Tavener and G J Bull are also Members of the Board as the nominees of Huntingdonshire District Council under the provisions of the Land Drainage Act 1991.

(NB) - Fenland District Council had advised that Councillor P Murphy had not been re-appointed as their nominee and that a vacancy still remained.

B.1659 Appointments for the year commencing 1st November 2019

a) Appointment of Chairman

Mr Hill referred to the letter sent by James German to all Board member informing them of his intention to stand down as Chairman. Mr England informed the meeting that he would be prepared to stand as Chairman on an interim basis should the position not be filled.

RESOLVED

i) That M P England Esq be appointed Chairman of the Board and the matter be reviewed again at the next meeting of the Board.

ii) That Mr German's decision be received with regret and that the Board's appreciation of the manner in which Mr German had undertaken his duties as Chairman be recorded in the minutes and a letter of appreciation be sent to him.

b) Appointment of Vice Chairman

RESOLVED

That no appointment be made at the present time and the matter be reviewed again at the next meeting of the Board.

c) Appointment of Clerk

RESOLVED

That the Middle Level Commissioners be appointed Clerk to the Board for the ensuing year.

(NB) - Lord De Ramsey and Messrs H and S Whittome declared interests (as Members of the Middle Level Board) when this item was discussed.

d) Appointment of Finance Committee

RESOLVED

That the Finance Committee be constituted as follows, viz:-

| | |
|---|---|
| The Lord De Ramsey | M P England Esq |
| D D Brown Esq | J German Esq |
| D W England Esq | D R Stokes Esq |

H W Whittome Esq

B.1660 Filling of vacancy

Consideration was given to the filling of the vacancy in the membership of the Board caused by the resignation of Mr Owen.

RESOLVED

That no action be taken to fill the vacancy at the present time and the matter be reviewed again at the next meeting of the Board.

B.1661 Fenton Lode New Cut (Tesco Site)

Further to minute B.1528, and subsequent correspondence, Mr Hill reported that when the site was originally developed, due to it being unoccupied, no application for the discharge of treated effluent had been made. However, now that the property was occupied, representations had been

made to the Developer concerning these outstanding consents and this matter was being dealt with by the Clerk and the Solicitor at the Middle Level Commissioners.

B.1662 Water Transfer Licencing

Further to minute B.1549, Mr Hill reported that it had been confirmed that transfers into the Board's system from Middle Level waters will not require a separate water transfer licence.

B.1663 Outbuildings at Puddock Pumping Station

Further to minute B.1623, Mr Hill reported that the Middle Level offices had been approached concerning the purchase of approximately 0.10ha of land on the bank of the Forty Foot River adjacent to and along the bank from Puddock pumping station and tabled the valuation report from Maxey Grounds & Co.

In response to Lord De Ramsey, Mr Hill confirmed that it was likely that there would be a maintenance fee due for the cost of maintaining the access way which was included in part of the property to be sold. In response to Mr Johnson, Mr Whittome considered it unlikely that there would be any development allowed as the land was within the byelaw distance and would require the consent of the Middle Level Commissioners.

Members did not see any benefit in purchasing the whole of the site but could see a benefit and value in acquiring the smaller area opposite Puddock pumping station. Members raised concerns over the numbers present at today's meeting and considered the matter should have the approval of the whole Board but were also conscious that an offer would need to be placed should the Board wish to proceed.

RESOLVED

That an offer of £500 be made for the purchase of the smaller section of land opposite Pumping pumping station, subject to all Members being advised of this, and to receiving a majority in favour from those Members responding.

B.1664 Replacement Excavator Machine

Further to minute B.1625, the Chairman reported that it had not been possible to locate a suitable second hand machine. The District Officer reported that the machine was currently working well with no problems.

RESOLVED

i) That the Chairman monitor the possible purchase of a second hand excavator and trade-in of the Board's existing machine.

ii) That the Chairman be authorised to replace the Board's excavator should a suitable machine become available for up to £30,000 trade-in value. Should the trade-in be in excess of this then the Finance Committee be authorised to approve any further actions.

B.1665 Abandoned Sluice Structure – Point 157

Further to minute B.1626, the Chairman reported that the matter was still being reviewed and that nothing had been agreed at this point but he hoped to have the matter resolved by harvest 2020.

RESOLVED

That the Chairman, Mr D England and the District Officer be authorised to have a site inspection to identify the most appropriate location and for a new water control structure to be installed at this point.

(NB) – The Chairman declared an interest when this item was discussed.

B.1666 Proposed Conservation Area – Point 144 – Madeleine's Patch Nature Reserve

Further to minute B.1627, the Chairman reported that since the last meeting no further response had been received from Mr Parnwell concerning this matter. The District Officer reported that he had carried out maintenance work on this section of District drain following which he had been requested by Mr Parnwell to put the spoil close to the side of the drain.

B.1667 Culvert to the rear of former Lafarge Site

Further to minute B.1628, the District Officer reported that this had been dealt with as part of the maintenance programme with an additional section of pipe added and that he would check on the works once water levels were raised again.

B.1668 Clerk's Report

Mr Hill advised:-

i) Middle Level Commissioners and Administered Boards Chairs Meeting

That a fourth Chair's Meeting will be held on the 26th November 2019.

ii) Association of Drainage Authorities

a) Annual Conference

That the 82nd Annual Conference of the Association had been held at the ICE building in Westminster on Wednesday 13th November 2019.

The conference was very well attended and the speakers this year were:-

**Stuart Roberts - Vice President National Farmers' Union** – an arable and livestock farmer who has also worked for Defra and Flood Standards Agency – who shared his views on the need for more radical and bold thinking on flood risk management and the supply of water for agriculture.

**Bryan Curtis – Chair Coastal Group Network – Chartered Engineer and a member of CIWEM and ICE.**
Bryan is Chairman of the Coastal Group Network. This is a network of Councils, Ports, Government bodies who provide a collective voice for the coast and management of the shoreline.

**Robin Price – Interim Managing Director – Water Resources East (WRE)**
Water Resources East is a partnership from a wide range of industries including water energy, retail, the environment, land management and agriculture who are working in collaboration to manage the number of significant risks to the future supply of water in the East of England. The NFU and ADA (via the David Thomas) have membership on the Board of WRE.

The conference was introduced by Robert Caudwell who asked all present to mark their appreciation of the work being done in the north east of England to respond to and manage the impacts of the floods. He stated his opinion that warnings at previous ADA conferences over the lack of river maintenance had fallen on deaf ears and that the flooding taking place at the time was clear evidence of the need to better balance capital investment with maintenance spending. He then went on to outline ADA's intention to lobby all parties throughout the general election. This included sharing the 7-point plan detailed below;

### 1. Long term investment horizons in the face of climate change challenges

Flood risk management delivers enduring benefits and authorities involved need to be able to plan ahead financially over multiple years and need to receive a sensible balance of capital and revenue funding, spread across the river catchments, in order to find efficiencies through climate change adaptation and resilience, and attract business investment.

### 2. Promote co-operation and partnership working to manage the water environment and reduce flood risk

Close cooperation between flood risk management authorities, water companies, communities, business and land managers needs the continued strong support of government to deliver adaptive and resilient flood risk maintenance and similar activities more efficiently and affordably.

### 3. Total catchment management

Total catchment management is now the widely accepted approach to managing our water and now is the time to increase and empower local professionals and communities to manage and operate these catchments together.

### 4. Sustainable drainage systems (SuDS)

The next government needs to fully implement Schedule 3 of the Flood & Water Management Act 2010, to ensure future development can keep pace with the challenges of the changing climate, by ensuring that SuDS are maintained over the lifetime of a development.

### 5. Support local governance in flood and water level management decision making

In some parts of England there is an appetite for greater local maintenance delivery on watercourses and flood defence assets than that currently afforded from national investment. This can be achieved via the careful transfer of some

main river maintenance to local bodies or the expansion of areas maintained by those local bodies, such as Internal Drainage Boards, where there is local support and transitional funding.

**6. Local Government Finances**

It is vital that Special and Local Levy funding mechanisms for drainage, water level and flood risk management continue to be part of this funding landscape to maintain the democratic link with local communities affected.

**7. Brexit: Ensuring a resilient regulatory framework for the water environment**

The next government needs to provide clear policy messages about how they wish to make the delivery of environmental improvements to the water environment easier and more effective as we transition from European legislation such as the Water Framework Directive.

Unfortunately, because the conference was held during the pre-election period sometimes known as Purdah, which restricts certain communications during this time, there were no representatives available from the Environment Agency or Defra which significantly restricted the debate on flood risk management, funding and maintenance issues. However, there was considerable support from the floor of the conference for the view that lack of maintenance had significantly contributed to the recent problems with the River Don and the flooding of Fishlake village.

Officers of the Association were re-elected, including Lord De Ramsey as President and Robert Caudwell as Chairman.

Subscriptions to ADA would be increased by 2% for the following year.

b) Annual Conference of the River Great Ouse Branch

That the Annual Conference of the River Great Ouse branch of the Association will be held on Tuesday the 3rd March 2020.

c) Further Research on Eels

Further to minute B.1502(d), ADA have advised that the valuable research work being carried out by Hull University on eels and eel behaviour in pumped catchments will be continuing for at least another two years. ADA consider that the financial support to the project to date provided by the IDBs has been positive and noted by the regulator (EA), leading to positive engagement on finding practical solutions at pumping station sites. They therefore consider that it would be useful if IDBs could consider whether they would be willing to continue their annual contributions to this research over that period.

RESOLVED

That the Board contribute £200 over the next 2 years towards further research on eels.

d) Floodex 2020

That Floodex 2020 will be held at The Peterborough Arena on the 26th and 27th February 2020.

iii) Environment Agency consultation on changes to the Anglia (Central) RFCC

That a consultation took place on the constitution of three RFCCs following a formal proposal for two new unitary authorities to be formed in Northamptonshire (West Northamptonshire and North Northamptonshire) and was submitted and approved by the Government. These authorities will come into existence on the 1 April 2020.

In Buckinghamshire the decision to create a single unitary authority replacing the existing five councils has been made by the Government, subject to Parliamentary approval. Again this will come into existence on the 1 April 2020.

Each new authority will be a unitary authority, delivering all local government services in their respective areas, including their functions as a Lead Local Flood Authority (LLFAs).

The membership of Thames RFCC, Anglian (Central) RFCC, and Anglian (Northern) RFCC included representation from one or both county councils. To reflect the changes, membership of all three RFCCs will be varied before 1 December 2019.

At the same time to better reflect a catchment-based approach the name of Anglian (Central) RFCC has been changed to Anglian (Great Ouse) RFCC. ADA stated that it supported the naming revision

iv) Tactical Plans for the Fens Agreement

That the Environment Agency have set up a multi-partner group (FRM for the Fens) to steer work on developing strategic plans for managing flood risk in the lower Great Ouse catchment. This work is considered necessary to address the impacts of population growth and climate change, which are particularly relevant in this area. The EA is requesting approval to the approach being taken in principal and follows the letter sent in January 2019. The perceived value of this work is that it pre-apportions the benefits (land and property which would flood if not defended) so that applying for grant should be more straight forward and the amount of grant possible clearer. This should give increased certainty and clarity and resolves the issue of double counting benefits where for example a property is protected from flooding by both EA and IDB assets. Work on developing the strategy could take up to 15 years though and the proposal also therefore includes a mechanism for allowing grant-in-aided works to progress during this time on a hold-the-line basis.

RESOLVED

That the Board approve in principle

B.1669 Consulting Engineers' Report, including planning and consenting matters

The Board considered the Report and the Supplementary Report of the Consulting Engineers, viz:-

# Warboys, Somersham & Pidley I.D.B.

# Consulting Engineers Report November 2019

## Pumping Stations

Other than the matters described below, only routine maintenance has been carried out since the last meeting and the pumping plant at each of the stations is mechanically and electrically in a satisfactory condition.

### *Puddock*

Pump No 2 continues to operate with the Moisture Ingress Sensor (MSI) unit defeated and a recent test of the motor windings showed no further deterioration in its insulation resistance.

### *High Fen*

The M&E Engineer's Appraisal of Quotations and Project Assessment for the Automatic Weedscreen Cleaning Equipment follows:

Quotations were invited from three suppliers/major manufacturers to supply and install at High Fen pumping station, an automatic overhead-gantry cleaner with a replacement galvanized weedscreen, and a composite pump control panel housing the weedscreen cleaner controls.

Three quotations were received from the following companies:

| | | |
|---|---|---|
| C W Group Ltd – Gantry Machine | £82,600.00 | |
| Metalcraft Pro-Active Solutions | £115,538.00 | |
| Aquatic Control Engineering Ltd | £107,155.00 | Pump Motor Control Centre and level control equipment not included |

The details of each manufacturer's plant are described as follows:

Metalcraft Pro-Active Solutions Ltd £115,538.00

The equipment offered is the company's Heron gantry-type machine, manufactured in Chatteris. The unit would have a maximum lifting capacity of 500 kg with a 1.6 metre wide grab.

The overhead track, to serve the sump and cover the dump area, would be supported on steel stanchions, with a cantilevered end-section to keep the dump area as clear of unnecessary supports as possible. All fabricated steelwork would be fully galvanised.

The trolley will house a Radicon hoist motor and traverse motor rated at 5 kW and 1.1 kW respectively (the latter being inverter driven to provide 'soft' start and stop) and a Hytos hydraulic pack of 1.1 kW to operate the grab.

Control equipment and software for the machine would be from Lawtronic of King's Lynn, with automation achieved by a Telemecanique programmable logic controller with door mounted operator interface (HMI)**.** Ultrasonic differential machine control, i.e., sensing water levels on either side of the screen to monitor any build-up of debris when the pump is running is included. Selectable deep-clean or surface-clean is also offered.

Supply and installation of a new galvanised weedscreen and composite Motor Control Centre for the pumps and weedscreen cleaner is included.

From receipt of the order, the delivery period would be approximately 4 months.

Warranty is for 12 months.

C W Group Ltd £82,600.00

The equipment offered is the company's CW5000 overhead-gantry-mounted 500 kg capacity model, (similar to the machine installed at Pidley pumping station) locally manufactured in King's Lynn, which would comprise a wire rope-slung grab suspended from, and travelling on, a gantry-supported trolley. The fully galvanised gantry columns erected at the edges of the deck/wingwalls and dumping to side of the intake sump.

The hoist motor/gearbox would be a Van der Graaf motorised unit, rated at 3 kW. An MP hydraulic power pack rated at 0.75 kW would be mounted within the trolley to power the 1.8 metre wide grab and a 1.1 kW Nord Gear motorised gear unit would provide the horizontal travel via an inverter to provide 'soft' start and stop.

Control equipment and software for the machine would be produced in-house by the C W Group, with automation achieved by a Telemecanique programmable logic controller with door mounted operator interface (HMI)**.** Ultrasonic differential machine control to monitor for any build-up of debris during the pump operation is included, together with selectable deep-clean or surface clean.

This company's full scope of works and payment terms is as follows:

**Weedscreen Cleaner Works –**
To supply, manufacture and install through its entirety a CW5000 fully Automatic Weedscreen Cleaner. Items included are: -

1. 1off CW5000 fully Automatic Weedscreen Cleaner.
2. All interconnecting power and control cables.
3. All containment as required.
4. Control panel.
5. Full training.
6. 1 hard and 1 electronic copy of the Operation & Maintenance manual.
7. All our machines now come with 3 Years guarantee.

**Weedscreen Works –**
1. Design new screens to the width of the sump and within the tolerances of the grab.
2. Issue full working drawings for approval before manufacture.
3. Manufacture screens in 80 x 12mm steel and in approx. 600mm sections.
4. To galvanise screens.
5. To deliver to site and full installation.

**MCC Works –**
To supply, manufacture and install through its entirety a new MCC as per the requirements of your specification document (High Fen Pumping Station – Control Equipment Replacement). Items included: -

1. Full removal of existing.
2. Full installation of new including integral WSC control panel.

**Package Price –**
We would be pleased to undertake the above-mentioned work for the sum of £82,600.00 + VAT.

**Programme detailing the time estimated from receipt of order –**

| | |
|---|---|
| Drawings for approval | 2 weeks |
| Works completion after approval of drawings | 8 weeks |
| Installation and commissioning | 2 weeks |

Total lead-time from order placement to full commission is 12 weeks at time of quote or by arrangement.

Payment terms are 30 days from receipt of invoice with monthly interim invoicing.

Stage 1 = Electrical MCC Build, WSC Control System, WSC Trolley Build - £46,000.00
Stage 2 = Fabrication of WSC steel works & Screen - £21,500.00
Stage 3 = Full Installation - £15,100.00

Aquatic Control Engineering Ltd (ACE) (RLC) £107,155.00

The equipment offered is a MIR 4-HD (Heavy Duty) Overhead Weedscreen Cleaner manufactured in Holland by RLC BV.

**Trolley**
MIR4HD overhead cleaner capacity in this arrangement is 500kg (debris in grab) with a Travel Speed 30 m/min and lifting speed 20 m/min.

The Hoist motor is rated at 4.0 kW, Travel motor 1.5 kW and the Motor to drive the hydraulic pump is 1.5 kW.

The machine would be hot dip galvanized (uncoated).

**Grip Bucket**
Galvanised Steel, with tine distance in accordance to the weedscreen the width is approximately 1.8 m with spring reels for the hydraulic hoses.

Load testing on site is **not** included.

Payment terms (for 30 days):
- 20% after having received the order
- 30% after ordering parts
- 20% complete after manufacture (70% paid for transport to location)
- 20% after assembly
- 10% Na SAT or commissioning

Price includes installation and craneage (up to 1 week on site max) Level monitoring and control is **not** included and this company declined in providing a quotation for a new Pump Motor Control Centre.

Guarantee - 12 months after delivery.

This company has also provided a quotation for a Landustrie Sneek BV backracking machine (see following photos).

The Back-Raking screen is, in normal use, an automatic machine used to remove floating debris that is in front of the screen and to depose of this onto a platform. It is designed to suit smaller pumping stations and smaller intakes up to a width of 4 metres maximum. The cleaner constructed from galvanised steel and with an adjustable transport chain. Due to the compact and robust design, limited maintenance is required. The cleaner is driven by a low power 0.75 kW Bonfigioli drive unit. It has no high-rise construction above ground level (no visual pollution).

Level monitoring and control is **not** included.

Craneage, dewatering, scaffolding, access/egress, storage, welfare, grouting (if applicable), civil or electrical works, remedial works or any special equipment is not included.

Confined space access would be charged as an additional should it be required.

Delivery would be 20 weeks from order.

Price – £74,300.00 which does **not** include for the replacement pump control panel which would have to be sourced from different supplier at additional cost off £15,000 giving a total package price of £89,300.00.

ACE also provided a quotation for a RLC MIR 2-XD (Xtra Duty) Overhead Weedscreen Cleaner shown below.

**Specifications MIR4-HD:**
- Engine power 5.5 kW.
- Net load 500 kg.
- Construction cleaner hot-dip galvanized steel.
- Swivelling.

**Boom + Grip Bucket**
- Heavy sliding mast Tube 300x200x8 stainless steel 304 internal sliding tube 250x150x5 stainless steel 304.
- Inner sliding cylinder made of steel (rod stainless steel hard chrome).
- Grab bucket steel and galvanized approx. 3.5m wide.
- Sliding slide plate in the length direction of the boom.

**Pedestal:**
- Weedscreen cleaner is placed on the concrete deck of only 250mm. For this solution an additional frame will be required to distribute the pressure of the footplate over the concrete deck (not included).
- Base hot dip galvanized not coated.

Price – £92,975.00 which does **not** include for the replacement pump control panel which would have to be sourced from a different supplier at an additional cost off £15,000 giving a total package price of £107,795.00.

*Notes on Manufacturers*

The three companies that were invited to tender are the main suppliers/major manufacturers of the type of machine required. There is a further supplier Ovivo/Bosker, however from other recent enquiries it is known they would not be competitive and therefore they were not invited to provide a quotation on this occasion.

The units supplied by Metalcraft and the C W Group are manufactured at the company's factories in Chatteris and King's Lynn. The machines from Aquatic Control Engineering (ACE) are built in Holland by RLC BV and Landustrie.

Metalcraft, who took over the Middlemass Lord weedscreen cleaner business in the late 1990s, ceased production of the machines a few years ago but have recently re-entered the weedscreen cleaner market and have supplied 9 new machines for IDBs within the Middle Level in the last 3 years.

Metalcraft's proposed machine design is somewhat more robust than the C W Group machine and it does not use spring tensioned hydraulic hose recoil drums which can prove to be unreliable, especially in cold weather.

The C W Group manufactures machines that were previously built by C W Engineering who stopped trading. There are 130 machines of this type in use. The reliability, service and back up of the company's latest machines have been reasonable and enhancements to the grab have been made to improve its penetration into thick weed.

RLC BV and Landustrie, who manufacture the equipment supplied by ACE, have to date sold only a small quantity of this type of machine to the British market.

The back raked machine dumps directly onto the weedscreen deck not to the side as the gantry machines do. It can, however, be fitted with a conveyor system but this would significantly add to the cost and may also cause Health and Safety issues. The tines on the machine are quite short and are unlikely to be as efficient in picking up large debris. We have no operational experience of the product or its reliability and therefore cannot comment on the reliability or service backup.

We have no direct experience of the use or operation of the RLC gantry machines, only very limited knowledge of the RLC deck mounted machines and none of the Landustrie products.

Conclusion

The design and construction of each of the C W Group and Metalcraft gantry machines are quite similar.

The offer from ACE is for a MIR4 overhead machine which was introduced in Holland only quite recently and has not been used extensively in the UK so far.

The ACE quotation is based on an exchange rate of £1=1.13 Euro, Brexit may have an influence on this. Also, the replacement motor control centre is not included in their offers.

Due to the cost difference and limited experience the offers from ACE can be discounted.

The offer from the C W Group is £32,938.00, less than that from Metalcraft, therefore the bid from the C W Group is recommended for acceptance.

The Board will also need to budget for other costs for the project i.e. damming off and dewatering; the use of a dive team, estimated at £3000; MLC engineering fees, approximately 10%; security fencing to enclose the machine and dump area at an estimated cost of £6000 (TBC) and additional costs incurred due to any unforeseen difficulties that may be encountered due to excessive debris build up at the weedscreen.

The Board's further instructions are requested.

## Pumping Station Asset Appraisals

Further to the asset appraisal carried in 2010 for the EA and following the request by the Board at its June Meeting please find below an update of the Board's Pumping Stations for 2020.

### Acre Fen

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham & Pidley |
| Commissioned | 1984 |
| Refurbished | 2006 (repair to remedy broken shaft carried in 2014) |
| Pumps | 1 no. Guinard H400 Vertical Spindle Axial Flow No461285 |
| Duty | 280 l/s @ 3.7 m Total Gauge Head |
| Drive Motor | Leroy Sommer Squirrel Cage no M1134/01, 22kW @ 970rpm |
| Gearbox | Newbrook SPL 26 Dual Drive |
| Control Equipment | Newark Controls DOL |
| Automatic Level Control | Milltronics Hydroranger Ultrasonic |
| Weedscreen Cleaner | Manually raked |
| Control Building | Brick with felt covered concrete roof |
| Telemetry | None |
| Fencing | 1.2 m chainlink fence |

*General Comments*

Acre Fen pumping station is one of six stations in the Warboys, Somersham and Pidley Internal Drainage Board. The Drainage Board is split into 7 catchments. Acre Fen drains the catchment to the southwest of Chatteris and discharges into the Fenton Lode and is the only pumping station in that catchment. The station was constructed in 1984 and replaced an old pump station which was located adjacent to the new station. The pumping station consists of a single vertical axial flow pump operated by a control panel located in a brick control building.

The installation is now 35 years old but should last at least another 20 years.

The minimum pumping level is 95.60 metres at the current winter operating level which gives approximately a further 2.0 metres impeller submergence giving good scope for future lowering of the district water levels if required. The sump appears to be of adequate depth to serve the district for at least 20 years before consideration needs to be given to major level modifications.

*Weedscreen*

The galvanised metal weedscreen consists of 12mm section bars at 50mm spacing and is manufactured in galvanised metal. Although there are signs of slight corrosion at the waterline it is in generally good condition and will last a further 20 years provided that it is not damaged by machine cleansing.

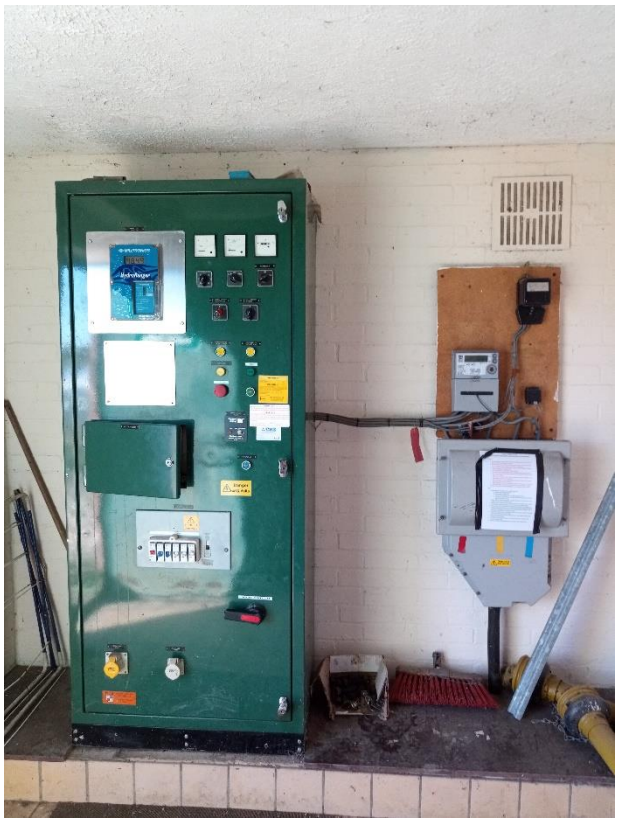
*Metal pump house*

The metal pump house is in need of repair but still has considerable integrity and could easily be welded up and painted.

*Control House*

The brick built control building has a felt covered concrete roof. The building brickwork is in good condition with no signs of subsidence or spalling. The station has been subject to vandalism and barbed wire has been fitted to prevent access to the roof. The roof covering will need replacing soon but this is of little concern. There are no windows in the building and lighting is by a single fluorescent light. The building structure should have a further design life of 30 years. The door is metal clad and should last a further 20 years if properly maintained.

*Control Equipment/Pumps*



The control equipment, which is the original installed in 1984, appears to be in reasonable condition for its age despite showing some signs of vermin infestation. The control panel manufacturer, Newark Controls, ceased trading a number of years ago. Several of the components are now no longer manufactured but the equipment could reasonably be upgraded with modern equivalents. The equipment should, therefore, last a further 10-15 years with appropriate maintenance. The panel has been fitted with a Milltronics Hydroranger ultrasonic programmable level controller to provide the automatic water level measurement and control, this is likely to fail in the next 5 years (typical for this unit) and could be replaced with a web based version that would allow remote connection and alarms which would negate the need for a more expensive conventional telemetry system.

The single 400mm vertical spindle, suspended, axial flow pump manufactured by British Guinard Pumps was refurbished in 2006 and had a broken shaft replaced in 2014 and appears to be in good condition and when operated gives no indication of mechanical or electrical problems. The gearbox and motor were refurbished at the same time. The original manufacturer was taken over by KSB Pumps and it is unlikely that spare parts will be available and so any components will have to be reverse engineered. The pump is expected to last a further 20 years subject to ongoing inspections and servicing.

*Fencing/Compound*

Access to the station is via a stone track that runs parallel to Fenton Lode and is in reasonable condition. The 1.2 metres mesh fencing is all but gone and should be replaced as soon as practicable with metal palisade fence for security purposes. The compound is partially stoned but due to shrinkage is uneven in places causing potential trip hazards and should be improved as soon as practicable.

*Inlets/Outlets*

The inlet wing walls are constructed of steel sheet plies with concrete capping. The piles are in good condition and the concrete has no signs of spalling and should last a further 30 years. The handrailing located on the inlet bay and wing walls is missing a horizontal rail other than that it is in good condition with a further anticipated life of 20 years.

The outfall bay is a semi-circular steel trough set in concrete. It is in reasonable condition and should last a further 20 years. The outfall does not have a flap valve fitted.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| Pumping Station | Acre Fen |
| Internal Drainage Board | Warboys, Somersham and Pidley |

| Function Category | Description | Year 1 2020/21 | Year 2 2021/22 | Year 3 2022/23 | Year 4 2023/24 | Year 5 2024/25 | Year 6 - 10 2025 - 2030 | Year 11 - 15 2030 - 2035 | Year 16 - 20 2035 - 2040 |
|---|---|---|---|---|---|---|---|---|---|
| Total Refurbishment/Replacement | | | | | | | | | |
| Pumping and Control Equipment | | | | | | | 100K | | |
| Weedscreen Cleaning Equipment | | 90K | | | | | | | |
| Control Building | | | | | | | | | 20K |
| Compound and Surroundings | | 15K | | | | | | | |
| Telemetry | | | 10K | | | | | | |

**Need**

2014/15 the pump suffered a broken shaft and was removed and repaired. The pump (apart from the broken shaft) was considered in satisfactory condition and should last another 10-15 years

The station would benefit from the automation of the weedscreen process.

Security fencing is needed to prevent vandalism. Improvements need to be carried out to the compound as the ground is uneven.

The station has the potential to be made redundant due to possible catchment changes.

Telemetry for data gathering, sharing, plant failure alarms and remote access.

Note - Costs are based on value of works at 2019 prices.

- These are estimated capital replacement figures and do not include routine maintenance costs.

***High Fen***

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham & Pidley |
| Commissioned | 1976 |
| Refurbished | No.1 2007, No. 2 2009 |
| Pumps | No 1. WH Allen 400mm Submersible Mixed Flow No.2 Bedford Pumps Submersible Axial Flow P0013 |
| Duty | 450 l/s @ 2.9 metres total gauge head |
| Drive Motor | BCP Integral submersible cage |
| Gearbox | N/A |
| Control Equipment | British Pleuger DOL |
| Automatic Level Control | Milltronics Multiranger Ultrasonic |
| Weedscreen Cleaner | Manually raked |
| Control Building | Brick with felt covered flat roof |
| Telemetry | None |
| Fencing | None |

*General Comments*

The station drains the High Fen catchment that is one of seven drainage catchments in the Warboys, Somersham and Pidley Internal Drainage Board's area. It is one of two stations in the catchment, the other being Pidley. The station discharges into Fenton Lode that in turn discharges to the Forty Foot Drain.

The station originally contained two British Pleuger wet motor submersible pumps. These were replaced by a WH Allen submersible pump (No. 2) and a Bedford Pump submersible unit (No. 1) in 1987 and 1989 following failure of the existing units which had reached the end of their design lives.

The pumps are connected to a siphon breaker pipework arrangement and discharge direct to Fenton Lode watercourse via two ductile iron pipelines.

*Weedscreen*

The metal weedscreen, which is the original, is in poor condition and is due to be replaced along with the addition of an automatic weedscreen cleaner.

*Control House*

The control house is of brick construction with a felt covered flat roof and is the original building constructed in 1976. The building brickwork is in good condition with no signs of subsidence or spalling and should have a further 30 years' life. The building has no windows and the lighting is by a single fluorescent light. The metal door is in good condition and will last a further 20 years with proper maintenance.

*Control Equipment/Pumps*


The number one pump underwent a major overhaul by the original manufacturer, Bedford Pumps, during 2007 following the failure of connections within the power cable terminal box and some moisture ingress, since which time the unit has performed satisfactorily.

The No. 2 pump, which had been determined to have a low insulation resistance of its motor windings/cables, was removed for inspection during 2009. The pump was found to be in very poor condition with water ingress into the components. A major overhaul was carried out which included the pipe delivery and supports. All indications are that the pump is still performing satisfactorily, however it is not unheard of for a submersible pump to only last 10 years after a major overhaul.

Lowland in the High Fen catchment area is at a level of approximately 98.68 metres ODN; the minimum freeboard provided to the lowest land in the winter is, therefore, in the order of 1.6 metres at the current operating levels.

The pump's impeller centrelines are approximately at a level of 95.0 metres, which is the manufacturer's specified minimum pumping level. At the current winter operating levels there are some 2.0 metres of impeller submergence giving good scope for future lowering of the district water levels. The sump should be of adequate depth to serve the district for at least 20 years before major modifications are required.

The ductile iron pipework from the pumps appears to be in good condition and should last a further 20 years.

Whilst the control equipment, which is the original installed in 1976, is still working plans are in place to replace with new whereupon telemetry could be included.

*Fencing/Compound*

Access to the site is via a stone track that is in reasonable condition. The station has a concrete access way from the track to the pumps.

The compound is not fenced however fencing will be required when an automatic weedscreen cleaner is installed. The rest of the compound is grassed.

*Inlets/Outlets*

The inlet wing walls are constructed of steel sheet piling and are concrete capped. There is mild corrosion to the steel piles but this should not reduce its remaining life of 20 plus years. The concrete inlet sump was seen to be in good condition. There is 1.2 metres high galvanised steel handrailing around the wingwalls and screen; this is in good condition with a further 20 years' life.

The concrete outlet bay is in good condition and is fitted with a flap valve on each of the piped outlets. The flaps are in good condition one having been replaced and the other refurbished during 2005.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| **Pumping Station** | **High Fen** |
| **Internal Drainage Board** | **Warboys, Somersham and Pidley** |

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 - 10 | Year 11 - 15 | Year 16 - 20 |
|---|---|---|---|---|---|---|---|---|---|
| **Function Category** | **Description** | **2020/21** | **2021/22** | **2022/23** | **2023/24** | **2024/25** | **2025-2030** | **2030-2035** | **2035-2040** |
| | | | | | | | | | |
| **Total Refurbishment/Replacement** | | | | | | | | | |
| | | | | | | | | | |
| **Pumping and Control Equipment** | | **50k** | **20k** | | | | | | |
| | | | | | | | | | |
| **Weedscreen Cleaning Equipment** | | **90k** | | | | | | | |
| | | | | | | | | | |
| **Control Building** | | | | **10k** | | | | | |
| | | | | | | | | | |
| **Compound and Surroundings** | | **15k** | | | | | | | |
| | | | | | | | | | |
| **Telemetry** | | **10k** | | | | | | | |
| | | | | | | | | | |
| **Need** | | | | | | | | | |

| |
|---|
| **New control panel needed and Pumps may need overhaul 2021/22** |
| |
| **Telemetry for data gathering, sharing, plant failure and remote access.** |
| |

**Note - Costs are based on value of works at 2019 prices.**

**- These are estimated capital replacement figures and do not include routine maintenance costs.**

***Pidley***

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham & Pidley |
| Commissioned | 1940's |
| Refurbished | 1979 |
| Pumps | 2 no AGP 24″ Vertical Spindle Axial Flow No.C5/53345/1&2 |
| Duty | 1000 l/s @ 4.9m Total Gauge Head |
| Drive Motor | LSC SC No. 25847, 73kW @ 585 rpm |
| Gearbox | Newbrook Engineering SPL 26 Dual Drive (Pump no 1) |
| Control Equipment | Whippendell Electrical Manufacturing Ltd |
| Automatic Level Control | Ultrasonic through the Weed Cleaner PLC |
| Weedscreen Cleaner | CW Engineering 5000 series |
| Control Building | Brick with corrugated sheet roofing |
| Telemetry | None |
| Fencing | 2.1m galvanised palisade fencing around the weedscreen cleaner |

*General Comments*

Pidley Pumping Station is located in the Pidley catchment one of seven catchments that make up the Warboys, Somersham and Pidley Internal Drainage Board area. The station is one of two stations in this catchment and drains an area of arable land to the east of Warboys.

The station discharges into Fenton Lode that in turns discharges to the Middle Level Forty Foot Drain.

The original pumping station was modernised in 1979 when a new intake sump, surge chamber, outfall bay, electric pumps and pipework were installed. The equipment in the original diesel station was removed and the building is now used to contain the control panel that serves the pumps. The pumpset arrangement consists of two vertical spindle axial flow pumps with a siphonic pipework arrangement, which deliver into a concrete surge chamber before discharging by gravity through 800mm diameter concrete pipes to the concrete outfall bay into Fenton Lode.

*Weedscreen*

The galvanised metal weedscreen consists of 12mm section bars at 65mm centres. It was installed in 2005 and is in good condition with an anticipated further life of 20 years.

An automatic weedscreen cleaner was installed when the weedscreen was installed. The 5000 series automatic weedscreen was manufactured by CW Engineering and consists of an overhead monorail beam, a trolley unit and motorised hoist drum. The control panel is located in the control building. It is anticipated that the unit will have a further 20 years design life following a major overhaul recommended in the next 5 years.

*Control House*

The building dates back to the 1940s and is in fair condition for its age. The brick building has a corrugated sheet roof. The condition of the brickwork appears to be structurally sound but there is evidence of cracked and damaged brickwork however this is not causing an issue and appears to be stable.

The roof covering, guttering and downpipes were replaced in 2016 and are in a good condition.

*Control Equipment/Pumps*

A new control panel, telemetry and station lighting were installed in 2016.

The station has two 600mm Allen Gwynnes vertical spindle axial flow pumps with a 1000 l/s duty at 4.5 metres total gauge head. One of the pumps is fitted with a gearbox to enable pumping through an external power source in the event of a mains failure.

The pump's impeller is at a level of 95.0 metres, which is the manufacturer's specified minimum automatic pumping level. At the current winter operating levels there is approximately a further 2.20 metres impeller submergence giving good scope for future lowering of the district water levels.

The sump and pump submergence appear to be of adequate depth at present and should serve the district for at least 20 more years before consideration will need to be given to major modifications of the station or total replacement.

The pumps, motors and gearboxes are now 40 years old but underwent major overhauls during 2005 and 2007 and appear to be in good condition with no operational issues. On current performance and from visual inspection (see following photo) the pumps should have a further 15 - 20 years life.

The pumps discharge is by siphonic action through ductile iron pipes into a surge chamber before discharging by gravity through concrete pipes to the outfall. Both the ductile iron pipework and concrete surge chamber should have a further 30 years life.

*Fencing/Compound*

Access to the station is via a grass track that is in reasonable condition but can be difficult to access by service vehicles, mobile lifting equipment or emergency services during the winter months. The compound is unmade and is showing signs of ground shrinkage exposing the control building floor slab. This will not affect the structural performance as the building is piled but may cause issues with vermin.

*Inlets/Outlets*

The concrete capped steel sheet piles inlet wingwalls are in good condition with little signs of corrosion and should have a further 30 years life. The inlet sump appeared to be in good condition.

The concrete outfall headwall is in good condition and the metal flap valve was refurbished in 2005 and should have a further 20 years' life.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| Pumping Station | Pidley |
| Internal Drainage Board | Warboys, Somersham and Pidley |

| Function Category | Description | Year 1 2020/21 | Year 2 2021/22 | Year 3 2022/23 | Year 4 2023/24 | Year 5 2024/25 | Year 6 - 10 2025-2030 | Year 11 - 15 2030-2035 | Year 16 - 20 2035-2040 |
|---|---|---|---|---|---|---|---|---|---|
| Total Refurbishment/Replacement | | | | | | | | | |
| Pumping and Control Equipment | | | | | | | 40K | | |
| Weedscreen Cleaning Equipment | | | | | 15K | | | | |
| Control Building | | | | | | | | | |
| Compound and Surroundings | | | | | | | | | |
| Telemetry | | | | | | | 5K | | |

**Need**

The pumps may need overhaul 2025-2030

Weed screen cleaner will need overhaul around 2023

Telemetry may need upgrade .

Note - Costs are based on value of works at 2019 prices.

- These are estimated capital replacement figures and do not include routine maintenance costs.

***Puddock***

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham and Pidley |
| Commissioned | 1992 |
| Refurbished | No 1 2004 |
| Pumps | 2 no. Bedford 500mm Submersible SB50-09, No P.0118/1&2 |
| Duty | 750 l/s at 4.7m Total Gauge Head |
| Drive Motor | BCP integral submersible SC, 62kW @ 980 rpm |
| Gearbox | None-Generator input facility |
| Control Equipment | Carlton Controls Star Delta |
| Automatic Level Control | Milltronics Multiranger Ultrasonic |
| Weedscreen Cleaner | Manual |
| Control Building | Brick with mineral coated steel tiled pitched roof |
| Telemetry | Dynamic Logic DL1243 |
| Fencing | 2.1m Galvanised palisade |

*General Comments*

Puddock is one of six pumping stations in the Warboys, Somersham and Pidley Internal Drainage Board catchment. The drainage board is divided into seven catchments and Puddock is the only station in the Puddock catchment. It serves to drain an area of arable land to the west of Chatteris and north of Somersham.

The station was constructed in 1992, on the site of a former diesel-powered pump house. Now, being over 27 years old it is around half way through its design life.

Note the addition of the blue container which has been fitted out with electricity and storage shelving. The original pump house in the background was sold in 2018.

*Weedscreen*

The 15mm thick bar weedscreen is manufactured of galvanised steel and has a 60mm gap between bars. The screen, which is manually raked, is in reasonable condition and should last a further 20 years unless damaged by the manual cleaning process.

Upon examination the concrete intake sump was seen to be in an excellent condition with only some cosmetic corrosion of its steel sheet piled wingwalls, and should have a residual life of some 20 - 30 years.

*Control House*

The fabric and roofing of the building, which was constructed in 1992, is in a very good condition and should not require any significant expenditure for at least 10 more years and should have a further design life of 50 years.

*Control Equipment/Pumps*


The manufacturer, Carlton Controls, continues to trade. The equipment, which is as originally installed in 1992 except for some minor replacement components, is in a very good condition. A small number of its components are now obsolete, but these could quite easily be replaced with modern equivalents. The equipment, with appropriate maintenance, should therefore last at least a further 15-20 years.

The operation and general condition of the plant appeared to be satisfactory; the pumps operated reasonably well. However, the No. 1 submersible pump was last removed for inspection during 2004 and the No. 2 unit has not been removed for service since its installation in 1992. Their current condition cannot be accurately determined but both are showings signs of water ingress and may need an overhaul or even replacement as soon as 2020. Please note the track record to date of having submersible pumps overhauled has not been a good one, only lasting 5-10 years.

The plant manufacturer, Bedford Pumps, recommends that they be periodically inspected at 5 yearly intervals. This company is still trading and it is expected that most components required for any refurbishment would be readily available, other than major items such as impellers which would have to be manufactured to order and therefore would require considerable lead-in time and cost.

The existing redundant pumps remain on site.

Lowland in the Puddock catchment area is at a level of approximately 98.62 metres ODN; the minimum freeboard provided to the lowest land in the winter is in the order of 1.4 metres at the current winter operating levels. The pump's impeller centreline is at a level of 94.60 metres, which is the manufacturer's specified minimum pumping level. At the current winter operating level there is some 2.6 metres of impeller submergence giving good scope for future lowering of the district water levels. The sump and pump submergence appear to be of adequate depth at present and should serve the district for 15 - 30 further years before consideration will need to be given to major modifications of the station or its total replacement.

This station was fitted with a Dynamic Logic telemetry system which does not work and is obsolete.

*Fencing/Surrounds*

The station is accessed off the main Forty Foot Bank road and onto Puddock Road. The fencing is 2.1 metres high galvanised palisade fence and is in very good condition. The vehicular access gate leads to a concrete access road into the site.

*Inlets/Outlets*

The pumped outfall is through a concrete chamber direct into the Forty Foot. A 1.2 metres high galvanised post and rail fence is seated on the wingwalls, all of which appear to be in a good condition.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| Pumping Station | Puddock |
| Internal Drainage Board | Warboys, Somersham and Pidley |

| Function Category | Description | Year 1 2020/21 | Year 2 2021/22 | Year 3 2022/23 | Year 4 2023/24 | Year 5 2024/25 | Year 6 - 10 2025-2030 | Year 11 - 15 2030-2035 | Year 16 - 20 2035-2040 |
|---|---|---|---|---|---|---|---|---|---|
| Total Refurbishment/Replacement | | | | | | | | | |
| Pumping and Control Equipment | | 15K | 15K | | | | 150K | | |
| Weedscreen Cleaning Equipment | | | 90K | | | | | | |
| Control Building | | | | | | | | | |
| Compound and Surroundings | | | | | | | | | |
| Telemetry | | 10k | | | | | | | |

**Need**

Pumps may need overhaul 2020 & 2021 (one each year) followed by replacemen 10 years later complete with new control panel

The station would benefit from the automation of the weedscreen cleaning process.

Telemetry for data gathering, sharing, plant failure alarms and remote access

Note - Costs are based on value of works at 2019 prices.

- These are estimated capital replacement figures and do not include routine maintenance costs.

***Washways***

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham and Pidley |
| Commissioned | 1975 |
| Refurbished | Complete station overhaul and upgrade 2016 |
| Pumps | 4 no. 600mm Allen Gwynnes Vertical Spindle Axial Flow |
| Duty | 1193 l/s @ 3.5 metres Total Gauge Head |
| Drive Motor | 2 no. Mather & Platt, 1 no. B.C.P & 2 130 BHP Cummins Diesels |
| Gearbox | Newbrook SPL 136 Combination |
| Control Equipment | Rand UK |
| Automatic Level Control | Pulsar Ultra 6 Ultrasonic |
| Weedscreen Cleaner | EJ Lord Heron model installed 1998 refurbished 2016 |
| Control Building | Brick with mastic asphalt covering |
| Telemetry | None |
| Fencing | 2.1m galvanised steel palisade |

*General Comments*

Washways pumping station is located across Fenton Lode and pumps its water to the higher level Fenton Lode New Cut from where it can discharge by gravity into the Middle Level Forty Foot Drain. Fenton Lode drains three pumped catchments and highland areas in the Warboys, Somersham and Pidley Internal Drainage Board located between Pidley and the south of Chatteris. Built in 1975 and completely refurbished in 2016 the station has probably 25-30 years design life left.

*Weedscreen*

The weedscreen cleaning process was automated in 1998 when a Heron weedscreen cleaner was installed, the cleaner was overhauled in 2016 complete with new screen. The controls are now integrated into the new MCC.

*Control House*

The control house is of brick construction laid on a concrete foundation. The brickwork is in good condition with no signs of spalling, cracking or subsidence. The roof is constructed of wood wool slabs with a mineral felt covering. The condition of the roof appears satisfactory.

There are no windows to the building with lighting being artificial, using fluorescent lights of a good standard.

A new MCC (manufactured by RAND UK) controlling pumps, extract fans, weedscreen cleaner, building services and auxiliary generator for building services and MCC controls was installed in 2016 as part of the station upgrade.

The two timber twin doors are in fair condition and should last a further 15 years with regular maintenance.

*Control Equipment/Pumps*

There are four pumps installed in the station;

Pump 1: Diesel only with new Rossi gearbox and Centa centrifugal clutch

Pump 2: Electric only, 67KW, 585rpm Mather & Platt

Pump 3: Electric only, 67KW, 585rpm Mather & Platt

Pump 4; Electric/Diesel: 100kW, 1450rpm BCP & 130BHP Cummins Engine c/w Newbrook SPL136 special combination drive gearbox

The station refurbishment included a new auxiliary backup generator for building services and control.


As Washways is a booster station for the Board's other stations and has to deal with the highland catchment area it is not affected with shrinking land levels within the district.

The pump's impeller is at a level of 96.80 metres, which is the minimum automatic pumping/prime level. At the current winter operating levels there is a further 1.5 metres submergence giving scope for lowering of the Fenton Lode water levels if required. The sump and pump submergence appears to be of adequate depth to serve the district for some 15 years before major modifications are needed.

The station now has a new telemetry system installed manufactured by Oriel Systems.

*Fuel Storage*

The diesel storage facility holds 6800 litres and is fully bunded complying with the current regulations.

*Electricity Supply*

The electricity transformer compound is constructed of brickwork and located away from the station.

*Fencing/Compound*

The 2.1 metres high galvanised metal palisade fence that surrounds the building and inlet area is in satisfactory condition apart from the gate which could benefit from some re-alignment.

*Inlets/Outlets*

Being a lift station, the inlet and outlet bays are joined to the control building. They are constructed of concrete and are in generally good condition. The outfall channel is constructed with sheet steel piles topped with a steel channel waling.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| Pumping Station | Washways |
| Internal Drainage Board | Warboys, Somersham and Pidley |

| Function Category | Description | Year 1 2020/21 | Year 2 2021/22 | Year 3 2022/23 | Year 4 2023/24 | Year 5 2024/25 | Year 6 - 10 2025-2030 | Year 11 - 15 2030-2035 | Year 16 - 20 2035-2040 |
|---|---|---|---|---|---|---|---|---|---|
| Total Refurbishment/Replacement | | | | | | | | | |
| Pumping and Control Equipment | | | | | | | | | |
| Weedscreen Cleaning Equipment | | | | | | | | | 20k |
| Control Building | | | | | | | | | 30k |
| Compound and Surroundings | | | | | | | 10k | | |
| Telemetry | | | | | | | | | |

**Need**

The station underwent major plant overhaul in 2015.

The automatic weedsceen cleaning equipment will require refurbishment in about 20 years time.

Telemetry for data gathering, sharing, plant failure alarms and remote access.

Note - Costs are based on value of works at 20019 prices.

- These are estimated capital replacement figures and do not include routine maintenance costs.

***Westmoor***

*Station Details*

| | |
|---|---|
| Internal Drainage Board | Warboys, Somersham & Pidley |
| Commissioned | 1962 |
| Refurbished | No.1 2007, No.2 2008 |
| Pumps | 2 no. Allen Gwynnes 18″ Vertical Spindle Axial Flow No.10073&4/4Z |
| Duty | 386 l/s @ 5.0 metres Total Gauge Head |
| Drive Motor | WH Allen 30kW @ 720 rpm |
| Gearbox | None |
| Control Equipment | New in 2011 by Carlton Controls Star Delta |
| Automatic Level Control | Pulsar Ultra Ultrasonic |
| Weedscreen Cleaner | Automatic: Manufactured by Metalcraft installed 2016 |
| Control Building | Brick with felt covered timber flat roof |
| Telemetry | None |
| Fencing | 2.1m galvanised steel palisade |

*General Comments*

The station drains the Westmoor catchment, which is one of seven drainage catchments in the Warboys, Somersham and Pidley Internal Drainage Board area. It is the only pump station in the Westmoor catchment and drains an arable area to the northwest of Chatteris. The station discharges to the Forty Foot drain.

The station was commissioned in 1962 and consists of two Allen Gwynnes vertical spindle axial flow pumps which pump via siphonic action to a surge chamber before gravitating through a 36″ concrete pipe to a concrete outfall located in the bank of the Forty Foot drain.

*Weedscreen*

The weedscreen consists of galvanised steel 12mm thick bar sections at 50mm centres. It was replaced in 2000 and is in good condition and will last a further 20 years unless damaged by the automatic cleaner installed in 2016.

*Control House*

The control building is a brick built felt roof structure and is in reasonable condition, the concrete apron surrounding its base slab was replaced during the installation of the weedscreen cleaner. The brickwork mortar joints are showing signs of deterioration but the building is unlikely to require any significant expenditure in the next 15 years. The fascia and rainwater goods are both plastic and should last a further 15 years.

There are no windows in the structure and lighting is by a single fluorescent light.

The door has recently been replaced with a metal one and will last a further 20 years if maintained properly.

*Control Equipment/Pumps*

The Allen Gwynnes pumps are the original ones and were refurbished during 1998 and 1999. Following a bearing seizure in 2007 the number one pump underwent a major overhaul. A similar bearing seizure occurred on the number two pumpset during September 2008 and the unit was stripped down to component level and refurbished. Both pumps appear in good condition and should run trouble free for another 10-15 years. The original manufacturer of the pumps is no longer trading but spare parts can be reverse engineered for items no longer available.

The original control equipment was replaced in 2011 and manufactured by Carlton Controls and is in good condition with an expected design life of 30 more years. The level is controlled by a Pulsar Ultra 5 and backed up with low level probes.

Lowland in the Westmoor catchment area is at a level of approximately 99.36m ODN; the minimum freeboard provided to the lowest land at the current winter levels is therefore in the region of 2.0 metres. The pump's minimum pumping level is 96.00 metres at the current winter operating levels providing a further 1.5 metres of impeller submergence which should give a further 15 years before consideration will need to be given to major modifications or its total replacement.

The station has no telemetry fitted.

*Fencing/Compound*

The station is accessed via a stone track adjacent to the pumping station main drain, which is in fair condition, but access can be difficult for heavy lifting equipment particularly in the winter period. There is new fencing to demark the compound and it is now secure.

*Inlets/Outlets*

The wingwalls at the inlet consist of concrete capped sheet steel piles and were observed to be in relatively good condition with only cosmetic corrosion and should have a residual life of 20-30 years.

The concrete inlet sump appears to be in good condition with no signs of structural or surface issues and should last a further 40 years. The inlet and sump have a 1.2 metres high galvanised post and rail handrail which is in good condition with a residual life of 20 years.

The outlet bay wingwalls are constructed of sheet steel piles and the headwall is concrete. The sheet steel piles are not coated but appear to be in good condition with only cosmetic corrosion. The outfall has a lifting winch fitted for irrigation purposes.

## Pumping Station 20 Year Expenditure Forecast

| | |
|---|---|
| Pumping Station | Westmoor |
| Internal Drainage Board | Warboys, Somersham and Pidley |

| Function Category | Description | Year 1 2020/21 | Year 2 2021/22 | Year 3 2022/23 | Year 4 2023/24 | Year 5 2024/25 | Year 6 - 10 2025-2030 | Year 11 - 15 2030-2035 | Year 16 - 20 2035-2040 |
|---|---|---|---|---|---|---|---|---|---|
| Total Refurbishment/Replacement | | | | | | | | | |
| Pumping and Control Equipment | | | | | | | 40k | | |
| Weedscreen Cleaning Equipment | | | | | | | | 15k | |
| Control Building | | | | | | | | | 10k |
| Compound and Surroundings | | | | | | | | | |
| Telemetry | | 10k | | | | | | | |

**Need**

The pumps will require overhaul 2025/30

Cleaner overhaul 2030-2035

Telemetry for data gathering, sharing, plant failure alarms and remote access.

Note - Costs are based on value of works at 2019 prices.

- These are estimated capital replacement figures and do not include routine maintenance access.

## Pumping Station Valuations for Insurance Purposes

Following the request by the Board at its June Meeting please find below insurance valuations for the Board's Pumping Stations for 2020.

*The following is an estimate of the maximum expected cost of rebuilding or replacing the pumping station on the same or an adjacent site following a catastrophic failure, eg a fire, a collapse or an explosion.*

| | |
|---|---|
| **Site Name** | **WS&P IDB - Acre Fen Pumping Stn.** |
| **Site Data** | |
| No. Pumps | 1 |
| Station Capacity | 280 l/s @ 3.7 m Total Gauge Head |
| Station built | 1984 |
| Description of Station | 1 no. Guinard H400 Vertical Spindle Axial Flow No461285, Leroy Sommer Squirrel Cage no M1134/01, 22kW @ 970rpm.Newbrook SPL 26 Dual Drive gearbox, Newark Controls DOL control equipment. Brick with felt covered concrete roo.f |
| **Valuation** | |
| Civils Works | £303,933.00 |
| M&E | £109,100.00 |
| Other | £43,000.00 |
| **Total** | **£456,033.00** |
| **Breakdown of valuation** | |
| **Civils Works** | |
| Pump sump/pipework | £264,750.00 |
| Hard standing | £0.00 |
| Fencing | £2,118.00 |
| Outfall | £5,295.00 |
| Pumphouse | £21,180.00 |
| Other weedscreen | £10,590.00 |
| **M&E** | |
| Pump | £54,550.00 |
| Control Equipment/cabli | £21,820.00 |
| Power Supply | no public liabilty |
| Motor & Gearbox | £16,365.00 |
| Installation | £16,365.00 |
| Weedscreen raker | £0.00 |
| **Other** | |
| Approvals | £10,750.00 |
| Liaison and consultation | £5,375.00 |
| Design | £16,125.00 |
| Supervision | £10,750.00 |

| | |
|---|---|
| **Site Name** | **WS&P IDB - High Fen Pumping Stn.** |
| | |
| **Site Data** | |
| | |
| No. Pumps | 2 |
| Station Capacity | 0.9 cumecs |
| Station built | 1976, Original pumps replaced 1986 & 1989 Pumps overhauled No.1 2007, No. 2 2009 |
| | |
| Description of Station | WH Allen installed Submersible Axial Flow 1986, P0013 & Bedford Pumps Submersible Axial Flow installed 1989, integral submersible SC motors, kW @ 980 rpm.British Pleuger DOL control equipment Brick control building with felt covered flat roof. |
| | |
| **Valuation** | |
| | |
| Civils Works | £453,252.00 |
| M&E | £152,740.00 |
| Other | £43,000.00 |
| **Total** | **£648,992.00** |
| | |
| **Breakdown of valuation** | |
| | |
| **Civils Works** | |
| | |
| Pump sump/pipework | £370,650.00 |
| Hard standing | £3,177.00 |
| Fencing | £0.00 |
| Outfall bay | £42,360.00 |
| Control building | £26,475.00 |
| Other | £10,590.00 |
| | |
| **M&E** | |
| | |
| Pumps rising mains etc | £87,280.00 |
| Control Equipment/cabli | £21,820.00 |
| Power Supply | inc in public liability |
| Motors | inc-submersible |
| Installation | £32,730.00 |
| Weedscreen | £10,910.00 |
| | |
| **Other** | |
| | |
| Approvals | £10,750.00 |
| Liaison and consultation | £5,375.00 |
| Design | £16,125.00 |
| Supervision | £10,750.00 |

| | |
|---|---|
| **Site Name** | **WS&P IDB - Pidley Pumping Stn.** |
| | |
| **Site Data** | |
| | |
| No. Pumps | 2 |
| Station Capacity | 2.0 cumecs |
| Station built | 1979 (Control panel replaced and rof repaired 2016) |
| | |
| Description of Station | 2 no AGP 24" Vertical Spindle Axial Flow No.C5/53345/LSC SC No. 25847, 73kW @ 585 rpm.Carlton Controls Ltd control equipment located in previous 1940's pumphouse, brick corrugated sheet roofing.CW Engineering 5000 series auto weedscreen cleaner. |
| | |
| **Valuation** | |
| | |
| Civils Works | £529,500.00 |
| M&E | £321,845.00 |
| Other | £43,000.00 |
| **Total** | **£894,345.00** |
| | |
| **Breakdown of valuation** | |
| | |
| **Civils Works** | |
| | |
| Pump sump/pipework | £370,650.00 |
| Hard standing | £10,590.00 |
| Fencing | £10,590.00 |
| Outfall bay | £63,540.00 |
| Pumphouse | £21,180.00 |
| Other surge chamber | £52,950.00 |
| | |
| **M&E** | |
| | |
| Pumps | £141,830.00 |
| Control Equipment/cabli | £43,640.00 |
| Power Supply | Public liability |
| Motors | £16,365.00 |
| Installation | £32,730.00 |
| Weedscreen/cleaner | £87,280.00 |
| | |
| **Other** | |
| | |
| Approvals | £10,750.00 |
| Liaison and consultation | £5,375.00 |
| Design | £16,125.00 |
| Supervision | £10,750.00 |

| | |
|---|---|
| **Site Name** | **WS&P IDB - Puddock Pumping Stn.** |
| | |
| **Site Data** | |
| | |
| No. Pumps | 2 |
| Station Capacity | 1.5 cumecs |
| Station built | 1992, No2 pumpset overhauled 2004 |
| | |
| Description of Station | |
| | 2 no. Bedford 500mm Submersible SB50-09, No P.0118/1&2, BCP integral submersible SC motors, 62kW @ 980 |
| | rpm.Carlton Controls Star Delta control equipment Brick control building with mineral coated steel tiled pitched roof |
| | |
| **Valuation** | |
| | |
| Civils Works | £497,730.00 |
| M&E | £229,110.00 |
| Other | £43,000.00 |
| **Total** | **£769,840.00** |
| | |
| **Breakdown of valuation** | |
| | |
| **Civils Works** | |
| | |
| Pump sump/pipework | £370,650.00 |
| Hard standing | £0.00 |
| Fencing | £10,590.00 |
| Outfall bay | £79,425.00 |
| Control building | £26,475.00 |
| Other i | £10,590.00 |
| | |
| **M&E** | |
| | |
| Pumps | £141,830.00 |
| Control Equipment/cabli | £43,640.00 |
| Power Supply | inc in public liability |
| Motors | inc-submersible |
| Installation | £32,730.00 |
| Weedscreen | £10,910.00 |
| | |
| **Other** | |
| | |
| Approvals | £10,750.00 |
| Liaison and consultation | £5,375.00 |
| Design | £16,125.00 |
| Supervision | £10,750.00 |
| | **ADJACENT WORKSHOP BUILDING SOLD IN 2018** |

| | |
|---|---|
| **Site Name** | **WS&P IDB - Washways Pumping Stn.** |
| | |
| **Site Data** | |
| | |
| No. Pumps | 4 |
| Station Capacity | 4.8 cumecs |
| Station built | 1975 (Total refurb 2015) |
| | |
| Description of Station | 4 no. 600mm Allen Gwynnes Vertical Spindle Axial Flow pumps 2 no. Mather & Platt, 1 no. B.C.P motors & 2 no. Cummins?? Diesel Engines, 1no Newbook SPL 136 Combination gearbox, 1 no Rossi 320 gearbox. EJ lord Heron weedscreen cleaner. |
| | |
| **Valuation** | |
| | |
| Civils Works | £889,560.00 |
| M&E | £709,150.00 |
| Other | £80,625.00 |
| **Total** | **£1,679,335.00** |
| | |
| **Breakdown of valuation** | |
| | |
| **Civils Works** | |
| | |
| Pump sump | £582,450.00 |
| Hard standing | £5,295.00 |
| Fencing | £10,590.00 |
| Outfallb bay/channel | £158,850.00 |
| Pumphouse | £105,900.00 |
| Other/fuel tank/system | £26,475.00 |
| | |
| **M&E** | |
| | |
| Pumps | £327,300.00 |
| Control Equipment/cabli | £81,825.00 |
| Power Supply | No public liability |
| Motors/engines/gearbox | £109,100.00 |
| Installation | £81,825.00 |
| Weedscreen/raker | £109,100.00 |
| | |
| **Other** | |
| | |
| Approvals | £21,500.00 |
| Liaison and consultation | £5,375.00 |
| Design | £32,250.00 |
| Supervision | £21,500.00 |

*The following is an estimate of the maximum expected cost of rebuilding or replacing the pumping station on the same or an adjacent site following a catastrophic failure, eg a fire, a collapse or an explosion.*

| | |
|---|---|
| **Site Name** | **WS&P IDB - Westmoor Pumping Stn.** |
| **Site Data** | |
| No. Pumps | 2 |
| Station Capacity | 0.8 cumecs |
| Station built | 1962, Plant Overhauled No.1 2007, No.2 2008 |
| Description of Station | 2 no. Allen Gwynnes 18" Vertical Spindle Axial Flow No.10073&4/4Z WH Allen 30kW @ 720 rpm. Carlton Controls Star-delta auto controls installed 2011.WSC by Metal Craft installed 2016, Brick control building with felt covered timber flat roof |
| **Valuation** | |
| Civils Works | £503,140.00 |
| M&E | £212,745.00 |
| Other | £43,000.00 |
| **Total** | **£758,885.00** |
| **Breakdown of valuation** | |
| **Civils Works** | |
| Pump sump/pipework | £370,650.00 |
| Hard standing new | £6,000.00 |
| Fencing New | £10,000.00 |
| Outfall bay | £52,950.00 |
| Pumphouse | £21,180.00 |
| Other surge chamber | £42,360.00 |
| **M&E** | |
| Pumps | £130,920.00 |
| Control Equipment/cabli | £21,820.00 |
| Power Supply | Public liability |
| Motors | £16,365.00 |
| Installation | £32,730.00 |
| Weedscreen | £10,910.00 |
| Weedscreen raker New | £80,000.00 |
| **Other** | |
| Approvals | £10,750.00 |
| Liaison and consultation | £5,375.00 |
| Design | £16,125.00 |
| Supervision | £10,750.00 |

## ***Pumping Hours***

This will be covered in the District Officer's report.

## Flood Risk Management (FRM) for the Fens Technical Group [previously reported as the Future Fenland Project]

The Middle Level Commissioners' Planning Engineer has represented both the Middle Level Commissioners and their associated Boards on the Technical Group since the last Board meeting.

An article detailing the project was included on page 16 of the Summer edition of the ADA Gazette. This can be found at https://flickread.com/edition/html/index.php?pdf=5d1efbbc0a48b#16.

**The project is further discussed under a separate Agenda item.**

## Planning Matters

In addition to matters concerning previous planning matters, the following 31 new development related matters shown below have been received and, where appropriate, dealt with since the last meeting:

| *MLC Ref.* | *Council Ref.* | *Applicant* | *Type of Development* | *Location* |
|---|---|---|---|---|
| 1034 | H/19/00766/AGDET | Mrs S Wyatt | Agricultural (Extension) | Warboys Road, Pidley |
| 1035 | H/19/00866/FUL | Mr Knighton | Residential (4 plots) | Puddock Road, Warboys |
| 1036 | Enquiry | Client of HaskoningDHV UK Ltd | Residential (250 plots max) | Womb Farm/Travellers Site, Chatteris |
| 1037 | F/YR19/0355/F | GKL Residential Developments Ltd | Residential (6 plots) | London Road, Chatteris |
| 1038 | F/YR19/0378/RM | FRW (UK) Ltd | Residential (3 plots) | Doddington Road, Chatteris |
| 1039 | F/YR19/0452/O | Mr R Peggs | Residential (2 plots) | London Road, Chatteris |
| 1040 | F/YR19/0386/SC | Barmach Ltd | Residential (250 plots max) | Doddington Road, Chatteris |
| 1041 | H/19/00704/FUL | Mr W Hopkins | Change of Use (Agricultural land to garden) | Fen Road, Pidley |
| 1042 | F/YR19/0451/F | Mr & Mrs Jackson | Residence (Extension) | West Street, Chatteris |
| 1043 | H/19/00962/FUL | Mr G L Poulter | Agricultural (Extension to form implement shed) | Warboys Road, Pidley |
| 1044 | FR19/0493/O | Mr J Rowell | Residential (2 plots) | Doddington Road, Chatteris |
| 1045 | Enquiry | Client of Waldeck Consulting | Residential (TBA) | Chatteris Road, Somersham |
| 1046 | F/YR19/0562/F | Mr & Mrs M Thistlebank | Residence | Burnsfield Estate, Chatteris (accessed from Treeway) |
| 1047 | H/19/01245/FUL | Mr D Hopkins | Change of use (Amenity land to garden) | Field Fen Road, Pidley |
| 1048 | H/19/00698/FUL | Mrs Z Langner | Residence | First Turf Fen Drove, Warboys |
| 1049 | H/19/01363/HHFUL | Mr S Chukolov | Residence (Extension) | Fen Road, Pidley |
| 1050 | H/19/01179/RM | Mr J Simons | Residential (2 plots) | Warboys Road, Pidley |
| 1051 | F/YR19/0607/F | Mr & Mrs Ager | Residence (Extension) | Willey Terrace, Doddington Road, Chatteris |
| 1052 | H/19/01258/FUL | Mr Augstein | Residential (9 plots) | Fenton Road, Fenton* |
| 1053 | F/YR19/0670/F | Mr G Bierton | Residence (Garage and annexe) | Honeysome Road, Chatteris |
| 1054 | F/YR19/0705/F | GKL Residential Developments Ltd | Residence | London Road, Chatteris |
| 1055 | Enquiry | Client of Ellingham Consulting Ltd | Defence and flood design levels | First Furlong Drove, Chatteris |

| | | | | |
|---|---|---|---|---|
| 1056 | H/19/01664/AGDET | Mr D Hopkins | Agricultural (Hay barn) | Fen Road, Pidley |
| 1057 | F/YR19/0747/F | Mr D Lewis | Residence | George Way, Chatteris |
| 1058 | H/19/01790/OUT | Larkfleet Homes | Residential (Up to 145 plots) | The Bank, Somersham* |
| 1059 | H/19/01782/OUT | Mr & Mrs V Van Der Gaag | Residential (6 plots) | Warboys Road, Pidley |
| 1060 | H/19/01775/FUL | Mrs Bradshaw | Proposed new dwelling and garage | Fen Road, Pidley |
| 1061 | F/YR19/0763/O | Mr A Pilgrim | Residence | Doddington Road accessed from Albert Way, Chatteris |
| 1062 | F/YR19/0760/O | Mr W Beaney | Residential (3 plots) | London Road, Chatteris |
| 1063 | F/YR19/0771/F | Mr J Chambers | Residence | West Street, Chatteris |
| 1064 | H/19/01593/HHFUL | Mr & Mrs Willison | Residence (Extension) | High Street, Pidley |

***Planning applications ending 'AGDET' relate to Agricultural Determination***
***Planning applications ending 'RM', 'REM' or 'RMM' relate to reserved matters***
***Planning application ending 'SC' relate to Screening Opinions***

Developments that are known to propose direct discharge to the Board's system are indicated with an asterisk. The remainder are understood to propose surface water disposal to soakaways/infiltration systems or sustainable drainage systems, where applicable. The applicants have been notified of the Board's requirements.

The following applicants have chosen to use the infiltration device self-certification process and, in doing so, agreed that if the device was to fail in the future they would be liable for discharge consent.

(a) Mr C Back – Erection of a residential extension + hair salon at Westbourne Road, Chatteris (MLC Ref No 1002).

(b) Mr & Mrs Mead - Erection of a garage at Station Road, Warboys (MLC Ref No 1003).

(c) Mr & Mrs Rees-Manley - Erection of residential extensions at Fen Road, Pidley (MLC Ref No 1033).

No further correspondence has been received from the applicants or the applicants' agents concerning the following developments and no further action has been taken in respect of the Board's interests.

- *Residential development on land east of Llanca, Huntingdon Road, Chatteris – Mr B Biggs & Mr J Biggs* (MLC Ref No 468), *Bexwell Tractors* (MLC Ref Nos 607 & 739) and *HB Villages Developments Ltd* (MLC Ref Nos 943, 973 & 977)

- *Industrial/Haulage Yard at Fenton Way, Chatteris (MLC Ref No 529) & Erection of a vegetable processing building and formation of balancing pond – Client of Grounds & Co (MLC Ref No 627); Allpress Farms Ltd (MLC Ref No 638); Produce World Ltd (MLC Ref Nos 776 & 777); & Erection of warehouse with offices and business units on land west of Fenton Way, Chatteris - R W Simpson Ltd (MLC Ref No 644)*

- *Erection of foodstore (A1), petrol filling station (pfs), car parking and associated highway works on land north of Honeysome Industrial Estate fronting Fenland Way, Chatteris - Harrier Developments Ltd (MLC Ref Nos 567, 584, 585 & 663) & Erection of Builders Merchants at Fenland Way, Chatteris - Harrier Developments Ltd (MLC Ref No 584)*

- *Haulage yard; aggregates storage area & sales use; inert waste & soil recycling operations; and a lean-to extension to existing buildings accommodating an ancillary office, welfare facilities & storage uses at Furlong Farm, First Furlong Drove, Chatteris – Mandley Brothers* (MLC Ref Nos 718, 944 & 981)

- *Residential Development involving demolition of existing storage building on land west and south of 74 West Street, Chatteris – Client of LK Consult Ltd (MLC Ref No 742), Land Planning Partnership Ltd (MLC Ref No 826) & WS Sandbach Ltd (MLC Ref No 928)*

- *Construction of a solar energy farm and associated works including underground cables at land east of Honeysome Farm Bungalow, Honeysome Road, Chatteris – Honeysome Road Solar Ltd (MLC Ref Nos 805, 818, 837, 855 & 887)*

- *Erection of a single-storey extension to rear of existing building and creation of earth bund/increase height of existing bund at 16 Albert Way, Chatteris – A E Sutton Ltd* (MLC Ref Nos 834 & 859)

- *Environmental Permit Application EPR/KB3199AV/A001 for treated effluent discharge at Hayden House, High Street, Pidley - Mr D Bird* (MLC Ref No 966)

- *Developments at Manchetts Transport, Heath Road, Warboys – Manchetts Transport* (MLC Ref Nos 519, 540, 569, 684 & 1000)

- *Erection of a garden centre (with restaurant area) with 2.2M (max height) fence and gates involving the demolition of existing sheds, greenhouses, and single-storey elements to 134 London Road, Chatteris – Miltons (Wallpapers) Ltd* (MLC Ref Nos 888 & 969)

- *Proposed pig rearing units and associated anaerobic digestion plant at 1 Colne Fen Farm, Chatteris Road, Somersham – Client of RM ASSOCIATES* (MLC Ref No 961) *and A & E G Heading Ltd* (MLC Ref No 993)

**In view of the absence of recent correspondence and any subsequent instruction from the Board it will be presumed, unless otherwise recorded, that the Board is content with any development that has occurred and that no further action is required at this time.**

*Mixed Use Development on land at Tithe Barn Farm and south east of London Road, Chatteris - Hallam Land Management Ltd* (MLC Ref Nos 160, 184, 606 & 630)

According to Fenland District Council's (FDC's) Public Access web page, a decision on this site still remains pending.

*Residential development on land south of 8 - 59 Fairbairn Way, Chatteris – Alan Barlett & Sons Ltd (Chatteris)* (MLC Ref Nos 890 & 1020)

The planning application associated with the fifty dwelling proposal went to FDC's October Planning Committee and was granted planning permission subject to the imposition of planning conditions including those related to surface water disposal and ecology.

### *Development Contributions*

Contributions received in respect of discharge consent will be reported under the Agenda Item – *'Contributions from Developers.'*

## Local Plan Update and Associated Consultations

### Cambridgeshire County Council (CCC)

***Cambridgeshire Statement of Community Involvement (SCI) document***

No further correspondence has been received in respect of this document.

***2019 revision of the Local Validation Guidance List & Local Validation Check List for planning applications for the County Council's own development & for waste development***

A report detailing the proposed revisions and the public responses which included responses from various interested parties including the Commissioners, several Parish and Town Councils, and various County Council departments went before the County Councils on 16 May.

A copy of the report can be found on the Council's webpage by using the following link and searching for "Review of the Local Information Requirements for the Validation of Planning Applications":

https://cmis.cambridgeshire.gov.uk/ccc_live/Meetings/tabid/70/ctl/ViewMeetingPublic/mid/397/Meeting/232/Committee/8/Default.aspx

However, the relevant items, as far as the Commissioners and relevant associated Boards are concerned, are summarised below.

"3.0 CONSULTATION RESPONSES

3.10 Middle Level Commissioners – Middle Level Commissioners have made a number of comments: 1. The contents of the Middle Level Commissioner's response of 2017 remain relevant. 2. The Commissioners are pleased to note that the reference in the introduction on page 2 of the 2019 LVL Guidance notes to the use of relevant and competent technical specialists and encourage this. 3. The commissioners and associated boards promote meaningful

preapplication advice and work with CCC colleagues to ensure that any issues concerning flood risk, water level management, navigation and environmental issues are dealt with prior to the planning application process, which offers more certainty in the decision making process. The Middle Level Commissioners would be pleased if applicants and/or agents could be advised to contact the Middle Level Commissioners for advice within their jurisdiction. A web site link is given to their pre- and post-application procedure: https://middlelevel.gov.uk/consents/. 4. The Commissioners request that applicants and/or agents are reminded that should planning approval be given by Cambridgeshire County Council, to remind the applicant(s) agent(s) that any matters requiring consent under the requirements of the Land Drainage Act, the Highways Act, the Water Industry Act, the Flood and Water Management Act and/or the Middle Level Act 2018, which relates to navigation related issues, must be complied with before any work is commenced on site. 5. It is requested that any drawings that are submitted to County Council be to a recognised engineering scale including a scale bar and advice on what size of paper the drawing should be printed on. 6. The Commissioners are pleased to note that the reference in the introduction on page 2 of the 2019 LVL Guidance notes to the use of relevant and competent technical specialists and encourage this. 7. The Biodiversity Survey and Report (Paragraph 4) includes reference to the Middle Level Biodiversity Manual (2016), on page 5 - this remains current on 10 April 2019. 8. The Statement of Sustainable Design and Construction (Paragraph 5) includes or the provision of both a foul drainage strategy and water conservation strategy, on pages 6 and 7. This is supported but it is suggested that the latter should be applied County wide and not just applied to the South Cambridgeshire District Council's area. 9. The Flood Risk Assessment (Paragraph 7) gives a list of application types that is appropriate to provide a Flood Risk Assessment for. The last bullet point (on page 8) refers to developments of: "Less than 1 hectare within flood zone 1 which has critical drainage problems as notified by the Environment Agency." Unless the area is identified within a Preliminary Flood Risk Assessment) the Environment Agency are unlikely to be involved. Drainage is the responsibility of several stakeholders, including Internal Drainage Boards and your Council's Flood Risk and Biodiversity Team. The latter are more likely to be aware of and have to resolve "critical drainage problems". It is reassuring to note and we applaud the inclusion of a reference and a link to our "Planning Advice and Consent Documents" webpage on page 9. 10. Additional Plans and Drawings (including cross-sections where required). (Paragraph 22), the inclusion of the section detailing other plans and drawings and suggesting suitable scales for these is noted and supported."

"4.0 Consideration of the Consultation responses

4.10 Middle Level Commissioners – 1. Noted with thanks. No changes required. 2. Pre application advice - References to Middle Level guidance will be retained, so no changes required. 3. References to Middle Level guidance are retained and it is recommended that the Middle Level Commissioners are added to the list of other bodies who provide pre-application advice. 4. Consent under the requirements of the Land Drainage Act is covered when necessary by informative at decision stage. 5. Drawings - This is covered by national guidance, so no changes required. 6. Technical specialists' reference - Noted with thanks. No changes required. 7. Biodiversity survey - Noted with thanks. No changes required. 8. Statement of Sustainable Design and Construction - This is already covered across all districts based on the relevant adopted policy guidance. The reference to South Cambridgeshire is only made as their requirements are stricter through adopted policy. Therefore no changes are required. 9. Flood Risk Assessment - Officers acknowledge that drainage is the responsibility of several stakeholders and have noted the acceptance to the Middle Level Commissioners planning advice pages. This will be retained on the new guidance and therefore no further changes are required. 10. Additional Plans and drawings - Noted with thanks. No changes required."

A copy of the Planning Committee Minutes can be viewed via the following link by searching for "Minutes – 16th May 2019":

https://cmis.cambridgeshire.gov.uk/ccc_live/Meetings/tabid/70/ctl/ViewMeetingPublic/mid/397/Meeting/232/Committee/8/Default.aspx

The final published versions of both the Statement of Community Involvement (SCI) and the Local Validation List and Guidance Notes can be accessed via the following link:

https://www.cambridgeshire.gov.uk/business/planning-and-development/planning-applications/submitting-a-planning-application/

**Fenland District Council (FDC)**

***FDC Liaison Meeting***

A meeting was held at the end of March. Issues discussed included navigation related matters, notes on the LLCR, the Wisbech Garden Town, the FRM for The Fens project, the Future High Street Fund bid for March etc.

Another meeting is currently being organised.

***Emerging Local Plan***

Fenland District Council is preparing a new Local Plan which, when adopted, will replace the current Fenland Local Plan (May 2014). The Local Plan is an important document which will "determine what the district will look like in the future and how it will become an even better place to live, work and visit."

The Council will be undertaking a Public Consutation on the Issues & Options Consultation Document, holding a 'Call for Sites' exercise, requesting nomination for Local Green Spaces, and inviting views on the Sustainability Appraisal Scoping Report imminently. Responses must be received by **21 November**.

**'Live' Timetable for Production of the Fenland Local Plan (October 2019)**

| No. | Stage | Description | LDS Target | Actual dates |
|---|---|---|---|---|
| 1 | Consult on a Sustainability Appraisal (SA) scoping report | The SA scoping report sets out the sustainability objectives proposed to be used to appraise the economic, social and environmental effects of the emerging Local Plan policies. The SA scoping report is subject to consultation. | N/a | Consultation 11th October to 21st November 2019 |
| 2 | Public participation (Regulation 18) | Opportunity for interested parties and statutory consultees to consider the options for the plan before the final document is produced. This stage may involve one or more public consultation rounds. We intend two rounds for the new Local Plan. | October 2019 & May 2020 | Issues and Options Consultation Document<br><br>Cabinet 18th September<br><br>Consultation 11th October to 21st November 2019 |
| 3 | Pre-Submission Publication (Regulation 19) | The Council publishes the Local Plan which is followed by a 6 week period when formal representations can be made on the Local Plan. | February 2021 | |
| 4 | Submission (Regulation 22) | The Council submits the Local Plan to the Secretary of State together with the representations received at Regulation 19 stage. | May 2021 | |
| 5 | Independent Examination Hearing | Held by a Planning Inspector into objections raised on the Local Plan. | From the day it is 'submitted' | |
| 6 | Inspector's Report | This will report whether if the Plan is 'Sound' or 'Not Sound'. The Inspector may make recommendations to make the plan 'Sound'. | January 2022 (estimate – could be earlier or later, and subject to the examination) | |
| 7 | Adoption of DPD (Local Plan) | Final stage, the Council will formally need to adopt the Local Plan and it will then be used in making planning decisions. | February 2022 (estimate - could be earlier or later, and subject to the examination) | |

**Huntingdonshire District Council (HDC)**

**Local Plan to 2036**

***Developer Contributions Supplementary Planning Document (SPD) and Community Infrastructure Levy (CIL)***

Huntingdonshire District Council is currently reviewing the 2011 Developer Contributions Supplementary Planning Document (SPD) and Community Infrastructure Levy (CIL). To inform the development of the SPD it needs to better understand current and future infrastructure requirements, what would trigger a developer contribution and how any Section 106 money that has previously been received has been spent. Also, what infrastructure has been delivered as a result thus enabling the District Council to test a revised Developer Contributions and CIL schedule against development viability and hence provide practical up-to-date guidance together with a schedule for land owners, developers and development management officers.

A Public Consultation (using a questionnaire format) was held between Tuesday 16 July and Friday 6 September but it was not considered appropriate to respond, primarily because the Commissioners and associated Boards do not currently have any infrastructure projects which are likely to require developer contributions through the planning process. However, the opportunity was taken to advise the District Council of the current and potential future funding processes in respect of our interests ie Grant-In-Aid funding, Green Infrastructure, Navigation and Partnership Working.

The response included the following summary:

"As discussed above, there are procedures in place for external funding which are available to the Commissioners and associated Boards and, therefore, they do not currently have any projects for the delivery of infrastructure that require developer contributions through the planning process. It is likely that this will remain the case in the short to medium term.

However, as the findings of the above projects and studies are completed and assessed, together with impacts as a result of changes to Government policy, seeking funding via the planning process may become necessary in the longer term. However, the extent, location and value of this is currently unknown and may take some time to determine."

## Cambridgeshire Flood Risk Management Partnership (CFRMP)

The Middle Level Commissioners' Planning Engineer has represented both the Middle Level Commissioners and their associated Boards since the last Board meeting. The main matters that may be of interest to the Board are as follows:

### *Future Meetings*

Following the successful "joint" approach future meetings will involve both the Cambridgeshire Flood Risk Management Partnership (CFRMP) and Peterborough Flood & Water Management Partnership (PFLoW). The MLC are stakeholders in both partnerships.

### *Draft National Flood and Coastal Erosion Risk Management (FCERM) Strategy for England*

A public consultation on the draft FCERM Strategy for England document was held between May and June.

Members of the partnership generally considered that amongst other matters the consultation could have been more ambitious; sought greater RMA involvement; and that surface water flooding should have been included.

Following the consideration of the responses it is intended to publish the final national FCERM strategy for England in 2020.

### *Local FRM Strategy*

Both the Cambridgeshire and Peterborough Strategies are due to be reviewed soon and may be a joint Cambridgeshire and Peterborough response.

### *The Environment Agency's Joint Assurance Group*

This group provides support to the RMAs on the delivery of Grant-in-Aid (GiA) funded projects and meets on a monthly basis to discuss business cases.

Partnership members generally agreed that it would be beneficial to understand what the EA, in its role as the approval body, would like to see in business cases and requested suitable good examples that could be used as guidance.

The EA advised that:

(i) The lack of sharing of suitable business case examples may be for GDPR/commercially sensitive/economic reasons and advised that whilst the EA cannot 'circulate' these, other RMAs can.

(ii) Due to the specialist nature of projects within The Fens it may not be possible to find enough suitable projects.

***Property Flood Resilience Pathfinder Project***

A £700k grant bid was made by a consortium of LLFAs. Confirmation of a successful bid is awaited.

Further details on the project can be found in Flood Resilience Community Pathfinder Evaluation Final Evaluation Report October 2015.

Further details can be found at the following link:

https://www.gov.uk/government/news/29-million-extra-funding-to-boost-action-on-making-homes-more-resilient-to-floods

***Riparian Responsibilities***

In order to raise awareness of and instigate discussion on an issue that causes difficulties for RMAs, including the Boards, primarily due to increased workload and costs, the County Council's Flood Risk and Biodiversity Team prepared an "Issues and Options Briefing Note" seeking changes to current practices that are inefficient and create inconsistency across the county in the use of public resources to address the issues associated with riparian assets. The document is currently being considered by the Regional Flood and Coastal Committee.

***Cambs County Council Capitally Funded Highway Drainage Schemes***

Schemes have been assessed and prioritised based upon level of flooding reported, ie high priority is property flooding or risk to life, low priority is highway only flooding and will be developed to provide estimated costs and prioritised to be delivered to available budget. There is an annual highway drainage budget of £1m, which needs to cover all staff, investigation, design and construction costs and, therefore, not all the schemes will be delivered in the current financial year.

The majority of investigation and design is delivered through Skanska or its supply chain, and managed by the County's Highways Projects team. Priority and funding are confirmed by its Asset Management team.

There are currently 22 schemes ongoing within the County, six of which are within the Fenland district but none are within the Board's area.

***District Council Strategic Flood Risk Assessment (SFRA) & Water Cycle Study (WCS) documents***

Most of the SFRA and WCS documents are considered old and have not been updated as initially intended. All will require reviewing as supporting evidence when the respective District Council's Local Plans are updated.

A 'joint' County-wide document was suggested but was not considered possible due to the differing states of the various Local Plans across the County.

No reference was made to the funding arrangements for the provision of the updated documents.

***Good Governance for Internal Drainage Board Members***

In March and April 2019 ADA ran a series of five Good Governance Workshops for IDB Members. The recordings from these events will be available as a series of training modules via the ADA website later in 2019.

A copy of the slides used at the presentation can be found at the following link
https://www.ada.org.uk/wp-content/uploads/2019/04/Good_Governance_Workshop_Slides_2019.pdf

***Public Sector Co-operation Agreements (PSCA)***

Following a problem encountered within North Level District IDB which required close liaison with Peterborough City Council, in its role as the Highway Authority, the possibility of arranging PSCAs with IDBs and Councils was raised but has not yet been concluded.

***Updates on Highways England (HE) Scheme***

The former areas 6 and 8 now form the East Region and the new term contractor is Ringway. The previous short-term Asset Support Contracts (ASC) have been replaced by a 15-year Road Investment Strategy (RIS) contract in order to ensure a consistent long-term approach.

***Anglian Water Services Limited (AWSL) Price Review 2019 (PR19)***

OFWAT like what is being proposed but not the associated costs. AWSL contends that it is trying to be "proactive and not reactive". **Note: In order to reduce charges on its customers AWSL**

**currently appears reluctant to incur any unnecessary additional costs beyond what it is obliged to accept.**

Requests have been made for suitable applications to be submitted to its project funding programme. It is hoped that a meeting with AWSL's Flood Partnership Manager will be arranged soon.

***Fenland Flooding Issues Sub-group***

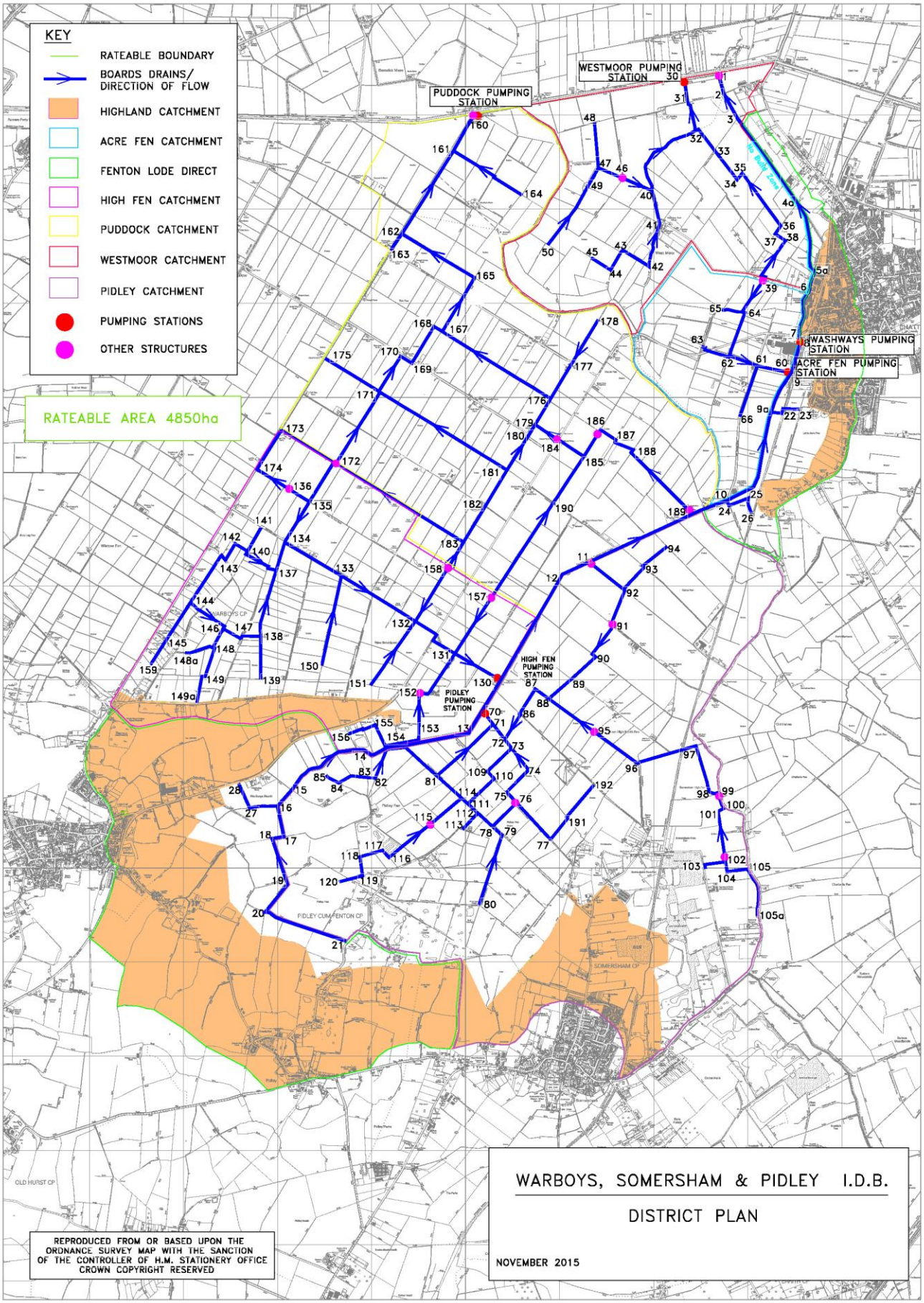
A meeting was held in April and no "wet spots" have been identified within the Board's district.

The next meeting is due to be held during October.

Consulting Engineer

11 November 2019

Warboys, Somersham & Pidley (333)\Reports\November 19


KEY
RATEABLE BOUNDARY
BOARDS DRAINS/ DIRECTION OF FLOW
HIGHLAND CATCHMENT
ACRE FEN CATCHMENT
FENTON LODE DIRECT
HIGH FEN CATCHMENT
PUDDOCK CATCHMENT
WESTMOOR CATCHMENT
PIDLEY CATCHMENT
PUMPING STATIONS
OTHER STRUCTURES
RATEABLE AREA 4850ha
WESTMOOR PUMPING STATION
PUDDOCK PUMPING STATION
WASHWAYS PUMPING STATION
ACRE FEN PUMPING STATION
HIGH FEN PUMPING STATION
PIDLEY PUMPING STATION
WARBOYS CP
PIDLEY CUM FENTON CP
SOMERSHAM CP
OLD HURST CP
WARBOYS, SOMERSHAM & PIDLEY I.D.B.
DISTRICT PLAN
NOVEMBER 2015
REPRODUCED FROM OR BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE CROWN COPYRIGHT RESERVED

# Warboys Somersham & Pidley I.D.B.

## Supplementary Consulting Engineers Report – November 2019

*Development at Womb Farm to the south west of Doddington Road, Chatteris - Colliers CRE* (MLC Ref No 524), *Triman Developments (UK) Ltd* (MLC Ref No. 528), *Client of HaskoningDHV UK Ltd* (MLC Ref No 1036), *Barmach Ltd* (MLC Ref No 1040) *Triman Developments (UK) Ltd* & Robertson Strategic Asset Management Ltd (MLC Ref No 1066)

**Note. A Scoping Opinion is a planning process where the applicant asks the relevant Local Planning Authority for its formal opinion as to what information should be included within an Environmental Statement to accompany an application for planning permission for the related proposal.**

Further to previous meeting reports, circa 2007/2008, concerning the development of this land, which partly abuts Fillenhams Drain, for *Light Industry and Storage & Distribution Use* a Scoping Opinion was submitted to Fenland District Council (FDC) by Barmah Ltd for a residential development of up to 250 dwellings in May.

The District Council subsequently concluded that:

> "The location of the site is not considered to be environmentally sensitive as set out in Schedule 3 of the Regulations and it is concluded that significant environmental impacts from the proposed development are unlikely and those potential impacts identified above whilst not significant for EIA purposes could be adequately addressed through the submission of technical reports and identified mitigation submitted in support of any future planning application."

An outline planning application (MLC Ref No 1066) has recently been submitted and is currently being considered by FDC.

The County Council, in its role as the LLFA, is currently objecting to the application due to the absence of infiltration testing or a viable alternative surface water strategy and the need to meet the Board's requirements. Its responses included the following text:

> "2. IDB consent required or viable alternative strategy It has currently been proposed to manage surface water from the site partially by infiltration into the ground through infiltration trenches and partially by controlled discharge into the Fillenham's Drain, located immediately to the south-west of the site. This drain is managed by Warboys Somersham & Pidley Internal Drainage Board (IDB), whose consents are managed by the Middle Level Commissioners (MLC) Catchment. Therefore, a principle agreement must be obtained from the IDB/MLC to discharge into their system at the proposed rate."

"If the applicant is unable to obtain such an agreement at this stage of the application process, a viable alternative drainage strategy must be proposed."

Board members will be aware that problems have previously been encountered with the stability of Fillenhams Drain side slopes and this is the reason why it previously advised that no development should occur within 20m of the channel brink. However, it should be appreciated that these statements were made before the channel re-profiling operations undertaken as part of the diversion works associated with the Tesco store in 2014.

The Board may consider it appropriate that bank stabilisation, re-profiling or the creation of a berm, similar to that upstream of the site, may be required to prevent further degradation of the channel profile. However, any such works would require care to avoid the existing gabion wall used to "plug" the junction of the former route of the channel and damaging the existing protective revetment. It may also require discussion with the adjacent landowners.

It is presumed that, at the very least, a similar arrangement to that used at the Tesco store's site will be required along the Board's 9m wide maintenance access strip.

The proposed layout shown on page 3 would not currently be recommended for approval. However, it should be acknowledged that this is simply an outline planning application and the actual layout is likely to be revised if planning permission is granted.

The site is the subject of a Post-Application Consultation procedure and a response to the applicant's consultant, Royal HaskoningDHV, is currently being prepared.

**In order to guide further discussions and assess any submissions efficiently it would be beneficial to <u>receive the Board's opinion and further instruction on the following:</u>**

1) Whether it wishes to continue to prevent development within 20m of the channel brink.

2) Whether specific works are required to protect the channel profile.

3) Whether the Board would require the provision of a berm along the site frontage.


**Extract from Cassidy and Ashtons Indicative Site Masterplan Drawing No 9377 MP07 Rev A**

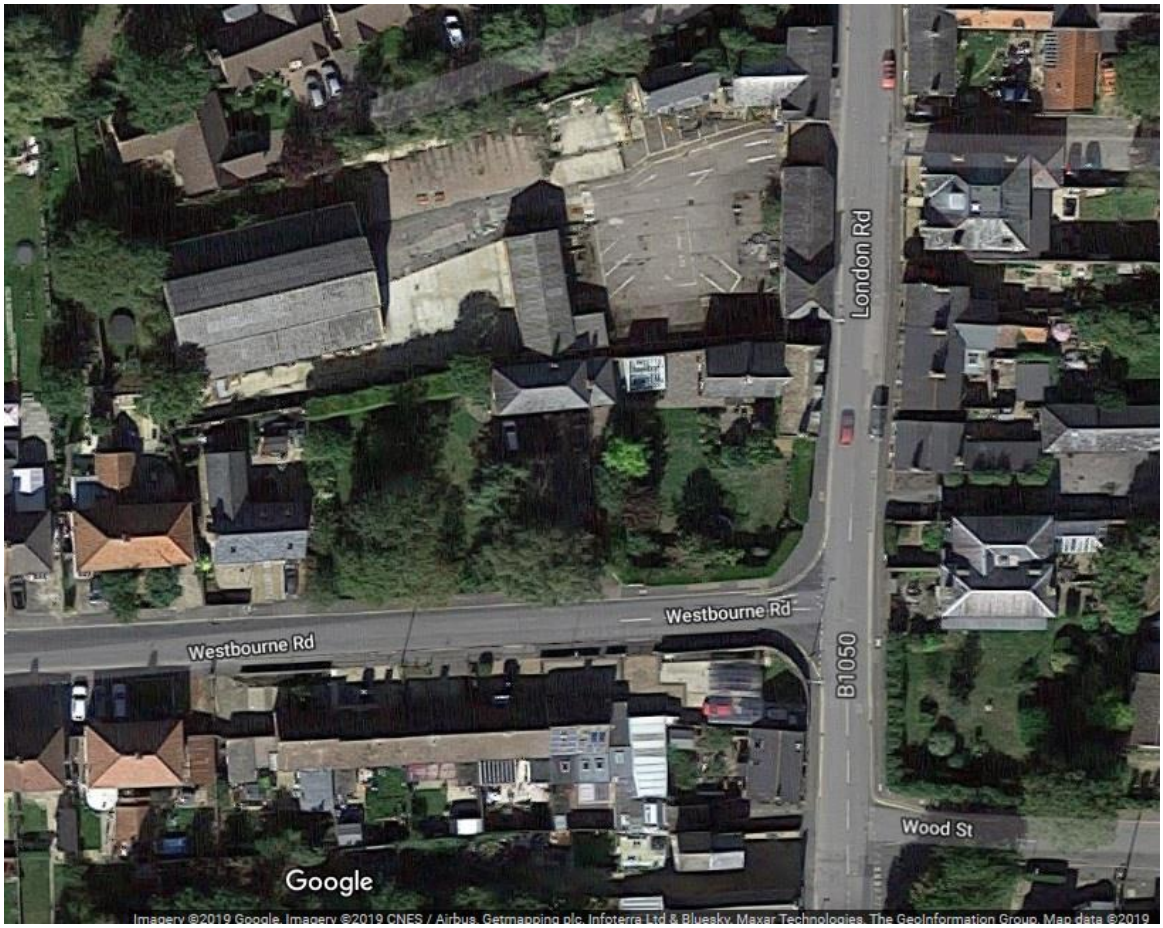
**Aerial photograph of the site of the reach concerned prior to the completion of the diversion works**

*Erection of 6no single storey dwellings comprising of 2 x 2-bed and 4 x 3-bed; change of use of office building (LB) to 2-storey 5-bed dwelling involving part demolition of Listed Building and demolition of warehouse and buildings at 22 London Road, Chatteris – GKL Residential Developments Ltd* (MLC Ref No 1037)

A planning application was submitted to FDC in March and validated in May, for this re-development of the former Travis Perkins' site with six dwellings.

Barker Storey Matthews' Design & Access Statement advises that:

> "The site currently has some 2835 sqm of impermeable surface area and this drains to the main surface water sewer situated within London Road. The proposed new development reduces the impermeable area by more than 31% providing 880 sqm of permeable surface where natural percolation can occur. Thus, the surface water runoff from the site following development will be significantly less that the current rate. It is proposed that the balance of the impermeable surfaces will continue to be served by mains surface water drainage given that the site investigations to date have identified that the water table is high and full percolation and soakaway will be difficult to achieve within these conditions."




**Google Map screengrab showing the Travis Perkins' site**


**Extract from TMV Architects' Drawing No 362 01B Rev. D showing the proposed re-developed site**

Planning permission was granted by FDC, subject to the imposition of conditions including both surface and foul water disposal, with a Drainage Advisory Note included on the Decision Notice. However, it is likely that, as a result of this development, there will be a slight decrease in surface water entering the Board's system from this site.

*Erection of 9 dwellings with garaging and parking following the demolition of the existing industrial buildings at land north east of The Laurels, Fenton Road, Fenton – Mr Augstein* (MLC Ref No 1052)

This full planning application, submitted to Huntingdonshire District Council (HDC) in June, seeks consent for the erection of 9 residential units following the demolition of the existing industrial buildings at Laurels Farm, Fenton.

Whilst the submission documents include an Ecology Report no reference appears to have been made to the disposal of either surface or treated foul effluent water.

According to HDC's Public Access web page the application is "In progress".


**Google Map screengrab showing "The Laurels" site**


**Extract from Partners in Planning & Architecture's Drawing No 2018.24.102 Rev A showing the proposed re-developed site**

*Application for outline planning permission for up to 145 dwellings and associated access, all other matters reserved on land north of the bank at land north of 16 the Bank, Somersham – Client of Waldeck Consulting (*MLC Ref No 1045) and *Larkfleet Homes* (MLC Ref No 1058)

According to Larkfleet Homes Limited's Planning, Design & Access Statement, this site is allocated in the adopted HDC Local Plan (2019) as site allocation SM5.

Waldeck Consulting's FRA advises that due to the poor permeability of the sub-soils all of the impermeable catchment will be through the on-site sewers, which will discharge into a balancing pond controlled by a Hydrobrake before discharging to a watercourse on the eastern boundary of the site.


**Extract from Larkfleet Homes Sketch Masterplan 2 Drawing No. SKM/02**

The on-site surface water system will be designed for a 1% AEP event together with a 40% allowance for climate change and 10% for “urban creep” ie extensions, small hardstandings etc.

In respect of maintenance the FRA advises that the surface water system will be adopted under a Section 104 or 106 agreement by AWSL. If this is not acceptable a private maintenance company will be employed.

The County Council, in its role as the LLFA, has objected to the proposal due to the lack of source control for surface water treatment and because the Board’s consent is required. The Council’s response also includes an informative highlighting the need to seek the Board’s consent.

According to HDC’s Public Access web page the application is “In progress”.

The applicant is being encouraged to use the Post-Application Consultation procedure but an instruction has not yet been received.

**In order to guide further discussions and assess any submissions efficiently it would be beneficial to <u>receive the Board’s opinion and comments on the development of this site.</u>**

Consulting Engineer

18 November 2019

Mr Downes referred to pump no. 2 at Puddock pumping station and that it will continue to be monitored. He referred to the quotations for the installation of automatic weedscreen cleaning equipment, replacement weedscreen and control equipment at High Fen pumping station and the recommendation made in the report. Members discussed the quotations and Mr Downes confirmed the technical specifications relevant to them.

Mr Hill reminded Members that when setting the budget the sum of £90,000 was included for these works, which were to be funded from the proceeds of the sale of Puddock pumping station outbuildings. He estimated that with the addition of fencing, installation costs and fees, the total figure for the C.W.Group Ltd gantry machine would be in the region of £100,000.

Mr Downes referred to the refresh of the pumping station asset appraisals and Mr Hill confirmed that the revised expenditure forecasts would be used when updating the Board's capital expenditure forecast.

Members reviewed the pumping station insurance valuations as had been requested at the previous meeting.

Mr Hill referred to the Consulting Engineer's supplementary report and Members discussed the implications of the planning applications (MLC Ref Nos. MLC 524, 528, 1036, 1040 & 1066).

With regards to planning applications (MLC Ref Nos. 1045 & 1058), Mr Brown confirmed that his land backed up to the proposed site and he did not envisage that there would be any drainage issues from the site.

RESOLVED

i) That the Report and the actions referred to therein be approved.

ii) That the quotation in the sum of £82,600 from C.W. Group Ltd for the installation of automatic weedscreen cleaning equipment at High Fen pumping station be accepted and the Engineer be instructed to proceed with the placing of the order.

iii) That the insurance values of the Board's pumping stations be increased in line with the updated Engineer's valuations.

iv) Development at Womb Farm (MLC Ref Nos. MLC 524, 528, 1036, 1040 & 1066)

The Planning Engineer be informed that:-

i) The Board fully support the planting of trees and appreciate that they require room to fully mature. In order, therefore, not to encroach within the Board's Byelaw distance, the Board require any such plantings to be 20 metres away from the Board's watercourse.

ii) The Board require the channel to be reprofiled to a standard satisfactory to the specifications of the Board's Consulting Engineer.

B.1670 District Officer's Report

The District Officer reported that the majority of this year's maintenance works programme had been completed and works had progressed well despite adverse weather conditions He

informed Members that currently the proposals for next year's programme were Westmoor and Acre Fen catchments and Washways discharge channel from Stainless Metalcraft to the Forty Foot River. Lord De Ramsey referred to the inspection earlier and the problems associated with the build up of spoil on the berm of the discharge channel and the need to address these issues ahead of the works commencing.

The Chairman referred to the problems associated with the removal of debris deposited by the automatic weedscreen cleaner at pumping stations and to the proposal to fit a grab to the Board's excavator and put a tow bar on the machine to enable a trailer to be towed to allow the removal of the debris from the pumping stations. Mr Johnson stipulated that it should be confirmed that a suitable grab was able to be fitted to the Board's excavator prior to any works to convert it were commenced.

RESOLVED

i) That the Report be approved and that the District Officer be thanked for his services over the preceding year.

ii) That the Board's Consulting Engineers be instructed to liaise with the District Officer to investigate how the build up of spoil can satisfactorily be removed from the berms along Fenton Lode.

iii) That the Chairman, District Officer and Consulting Engineers hold a site meeting to review ways to allow proper access along Washways discharge channel for the 2020 maintenance works.

iv) That the District Officer liaise with A Bartlett & Sons to arrange a site meeting, together with the Chairman, to discuss the issues with spoil build up on Fenton Lode adjacent to Bartlett's site.

v) That the District Officer assess if a suitable grab can be affixed to the Board's excavator and, if so, liaise with the Chairman to arrange for the purchase and fitting of a grab and tow bar for the clearing of debris from the Board's pumping stations.

vi) That a site meeting be arranged between the District Officer, Consulting Engineers and contractor at Westmoor pumping station to assess the repositioning of the security gates and for the District Officer to be authorised to place an order for the works, should an acceptable solution be proposed.

## B.1671 Request to erect a small plaque on Puddock Bridge Pumping Station

The Chairman reported that the previous Chairman had been approached with regards to erecting a small plaque at Puddock pumping station, in memory of the man who had died during the construction of the station. Previously, a tree had been planted but as that had recently blown down permission for the erection of a plaque instead had been given.

RESOLVED

That the actions of the previous Chairman in granting permission for the erection of a small plaque be approved.

B.1672 Health and Safety

Further to minute B.1645, the Chairman referred to the report from Cope Safety Management and to the number of low risk items identified. Mr Downes referred to the identified risk at Washways pumping station (photo 6) and confirmed that it had been inspected and was a wood/cement compound with no asbestos present.

RESOLVED

That the District Officer be authorised to prioritise the matters identified and to attend to them as soon as practicable.

B.1673 Financial Statement

Mr Hill reported that the Board's revenue cash balances on the 2nd November 2019 were:-

| | | |
|---|---|---|
| Clients Premium Account | - | £1,099,954.68 |
| Clients Premium Account (Labour) | - | £1000.26 |

He also reported that drainage rates and special levies amounting to £58,216.31 were outstanding on the 2nd November 2019.

B.1674 Completion of the Annual Accounts and Annual Return of the Board – 2018/2019

a) The Board considered the comments of the Auditors on the Annual Return for the year ended on the 31st March 2019.

RESOLVED

i) That, after fully considering the internal controls put in place by their appointed administrators and the checks carried out by their appointed internal auditors, the Board were satisfied that, in all significant respects, the internal control objectives were being achieved throughout the financial year to a standard adequate to meet the needs of the authority.

ii) That the present policies concerning risk management, budget monitoring and insured value of properties are adequate for the size of the business and that they be continued.

iii) That the Clerk and responsible financial officer review the internal audit strategy with the internal auditor to ensure the most appropriate method is in place to ensure the Board continue to comply with the Internal control objectives to a standard adequate to meet the needs of the authority.

b) The Board considered and approved the Audit Report of the Internal Auditor for the year ended on the 31st March 2019.

B.1675 Defra IDB1 Returns

Mr Hill referred to the completed IDB1 form for 2018/2019 and to the letter from the Minister and Annual report summary and analysis received from Defra dated August 2019, which the Board noted and approved.

B.1676 Expenditure/Estimate Update

The Board considered the Estimate Update.

RESOLVED

That the update be approved.

B.1677 Dates of next Meetings

RESOLVED

That the next Meetings of the Board be held as follows in 2020, viz:-

i) Thursday the 4th June 2020.

ii) Thursday the 3rd December 2020 (prior to which the District Inspection will be held).