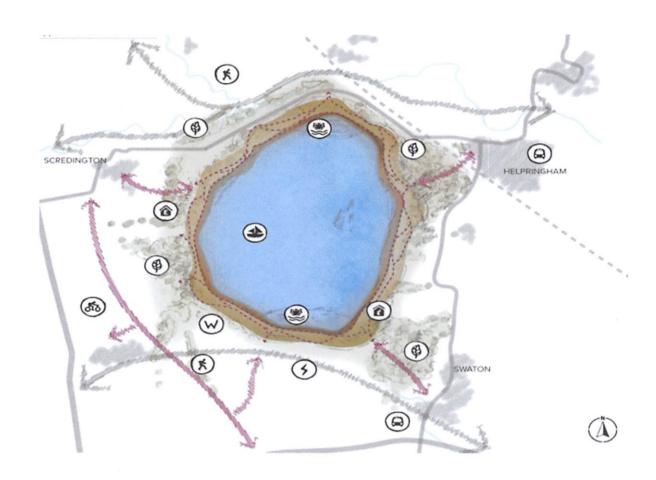
BLACK SLUICE

INTERNAL DRAINAGE BOARD



Joint Works Committee Meeting

Tuesday, 4th October 2022 at 2:00pm

Station Road, Swineshead, Lincolnshire PE20 3PW

Front cover: Proposed Site of South Lincs Reservoir (SLR)



Black Sluice Internal Drainage Board

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Our Ref: IW/JB/B10_1

Your Ref:

Date: 27th September 2022

To all Northern and Southern Works Committee Members

Notice is hereby given that a Meeting of the Joint Works Committee will be held at the Offices of the Board on Tuesday, 4th October 2022 at 2pm at which your attendance is requested.

Yours sincerely

Chief Executive

AGENDA

- 1. Recording the meeting.
- Apologies for absence.
- Declarations of Interest.
- 4. To consider the Joint Works Committee Terms of Reference (pages 1 & 2)
- 5. To receive and, if correct, sign the Minutes of the last Meeting of the Southern Works Committee held on 5th July 2022 (pages 3 15)
- Matters Arising from the Southern Works Committee Minutes.
- 7. To receive and, if correct, sign the Minutes of the last Meeting of the Northern Works Committee held on 19th July 2022 (pages 16 24)
- 8. Matters Arising from the Northern Works Committee Minutes.
- 9. To receive a report on Engineering Works for 2022 (pages 25 32)
 - (a) Capital Scheme Budget (page 33)
 - (b) SCAPE Access Agreement for the public sector (pages 34 37)
 - (c) Trinity College Pumping Station Trial Pit Sketches (pages 38 & 39)
 - (d) Map showing major slip repairs (page 40)
 - (e) Map showing proposed cleansing works 2022 (page 41)
- 10. **CONFIDENTIAL** To receive an update on the South Lincolnshire Reservoir (presentation)
- 11. Rainfall (pages 42 & 43)
- 12. Any Other Business.

BLACK SLUICE INTERNAL DRAINAGE BOARD

JOINT WORKS COMMITTEE - 04 OCTOBER 2022

AGENDA ITEM 04

DRAFT TERMS OF REFERENCE: JOINT WORKS COMMITTEE

1. GENERAL

The Committee shall have TWENTY ONE members who will be appointed by the Board. A maximum of SIXTEEN Co-opted Members may also be appointed by the Committee.

The Membership shall include: The ELEVEN elected Board members, the SEVEN Boston Borough Council Board members, the ONE North Kesteven District Council Board member, the ONE South Kesteven District Council Board member and the ONE South Holland District Council Board member.

Co-opted Members will be appointed by the Committee at the triennial general meeting of the Board with each Co-opted Member receiving a written invitation to join a Works Committee for a three-year term. New Co-opted Members may be approached at any time throughout the year to take up any vacancies and thereafter appointed by the Committee. It is at the Chairperson's discretion to remove Co-opted Members based on low attendance levels.

The Chairperson will alternate between the Northern Works Chairperson and Southern Works Chairperson, who shall be elected by the respective committee at the triennial general meeting of the Board, being the first board meeting following an election.

2. MEETINGS OF THE COMMITTEE

The Committee shall meet at least once in every 12-month period and a quorum shall be thirteen members.

No one other than the Committee members, members of the public and Board Officers shall be entitled to attend Committee Meetings, but any other persons shall attend meetings as a guest if invited by the Committee.

3. POWERS OF THE COMMITTEE

- (a) Any formal consent which requires determination before the next Board Meeting which officers cannot approve.
- (b) Approve any individual works or scheme up to a value of £25,000.

4. RESPONSIBILITIES OF THE COMMITTEE

The responsibilities of the Committee shall be:

- 1. To monitor the Board's performance in relation to effective and efficient work solutions.
- 2. To monitor the Board's performance in relation to good Health & Safety practices throughout daily operations.
- 3. To promote best practice through employee training and awareness.
- 4. To promote and maintain value for money for all resources.

5. REPORTING

Minutes of meetings of the Committee shall be presented to the next meeting of the Board.

The Committee shall review its terms of reference after every triennial general meeting and its own effectiveness and recommend any necessary changes to the Board.

REVIEWED BY THE COMMITTEE:
APPROVED BY THE BOARD:

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the Southern Works Committee

held at the Office of the Board on the 5th July 2022 at 16:00

Members

Chairperson - * Mr M Rollinson

Mr W Ash

* Mr V A Barker

* Mr J Casswell
Mr C Dring

* Mr M Mowbray
Mr C Wray

* Mr J F Atkinson
* Mr K C Casswell
* Mr R Dorrington
Mr A Mair
Cllr S Walsh

(* Member Present)

In attendance: Mr I Warsap (Chief Executive)

Mr D Withnall (Finance Manager)
Mr P Nicholson (Operations Manager)
Mr S Harrison (Works Manager)
Mr K Methley (Pump Engineer)

Mr P Holmes (Vice Chairman & Northern Works Chairman)

Cllr P Bedford (Executive Committee)
Mr J Fowler (Executive Committee)

1997 Recording the Meeting – Agenda Item 1

Members were informed that the meeting would be recorded.

1998 Apologies for absence - Agenda Item 2

Apologies for absence were received from Mr W Ash, Mr C Wray, Cllr S Walsh, Mr C Dring, Mr A Mair and Mr M Brookes.

1999 <u>Declarations of Interest - Agenda Item 3</u>

Declarations of interest were received from:

- Mr J Atkinson in reference to Minute 2002(a) Dunsby Fen Catchment Works Study
- Mr V Barker in reference to Minute 2004 Number 03 Crop Loss

2000 Terms of Reference - Agenda Item 4

All AGREED to recommend the Southern Works Committee's Terms of Reference to the Board for approval.

2001 Minutes of the last meeting - Agenda Item 5

The Minutes of the Southern Works Committee, which was held on 28th September 2021, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record.

2002 Matters Arising - Agenda Item 6

(a) Dunsby Fen Catchment Works Study – Minute 1847 – 12(a)(vi)

Mr J Atkinson questioned if there has been any progress with this matter?

The Operations Manager explained that this is still ongoing, the report should be received in August. Once received, the catchment can be reviewed considering any connection between Dunsby and Pinchbeck.

The Chief Executive further noted the suggestion of the syphon under the South Forty Foot Drain (SFFD), noting that they are holding that information until more is known about the possible transfer route for the South Lincs Reservoir and the Boston to Peterborough Wetland Corridor (B2PWC).

(b) Leaveslake Drove

Mr J Atkinson mentioned that on the inspection tour it was noted that the drain running beside Leaveslake Drove is not in good condition, wondering whether it could be lowered into the South Forty Foot Drain?

The Operations Manager noted that the difficulty with lowering the outfall is whether the outfall drain is at a level that allows gravitation, but it is something that can be looked in to.

The Operations Manager further noted that Leaveslake Drove and Lane Dyke culverts were both proposed for Grant in Aid funding but, unfortunately, both culverts have not met the criteria to release the funding.

2003 <u>Discuss the Operations Report and Inspection - Agenda Item 7</u>

The Operations Manager led discussions about the inspection, as follows.

(a) Swaton Catchment Natural Flood Management

An update was given on the three sites being worked on with the Environment Agency for attenuation; the Holland Road Farm site is completed, works on the other two sites (Grove Farm and Manor Farm) have started but had to stop in November 2021 due to awaiting an agreement with the Crown Estate. It is hoped to be completed by March 2023.

It was noted that there have been no major fluvial events since the Holland Road Farm site has been completed, but that the landowner has four outfall drains running into it and it has filled up and proven it works.

(b) Environment Agency Public Sector Cooperation Agreement Revetment Works -Ouse Mere Lode, Billingborough

This year the Environment Agency (EA) had some funding around recovery works available (£400,000). Originally the Board estimated works for 33 sites which totalled nearly £1million. Agreed works were identified to help improve the annual maintenance carried out by the Board on behalf of the EA. There are still further works the Board would like to do and Adrian Clack (EA) has shown a willingness to want to do more through the Public Sector Cooperation Agreement (PSCA).

Mr V Barker noted that he believed willow has been used, noting that it will require maintaining. The Operations Manager confirmed that willow has been used, once the willow gets established it will hopefully prevent failure of the bank and there will be ongoing maintenance to control its growth.

(c) <u>Slip Repairs – FX1661, FX1670 – Billingborough Pump Drain,</u> Billingborough Drove

The committee noted these works.

(d) First crop on site of former Billingborough Silt Lagoon

The former Billingborough Lagoon is now being cropped for the first time.

The ongoing challenge is to work towards achieving continuation of desilting of the South Forty Foot Drain (SFFD) from the A52 to the A17. The Environment Agency (EA) have an appetite to continue with this work but want to revisit the dredging methodology previously used. The methodology used will be dependent on the results of a topographical survey of the channel, which has not yet been completed.

(e) Sempringham Fen Pumping Station Access Road

The access roadway from Neslam Road to Sempringham Fen Pumping Station along Environment Agency (EA) owned land has been completed, within the £46,000 budget, through a purchase order from the EA, which has made the roadway far safer to drive down.

Mr V Barker referenced a previous issue with grazing the Sempringham drain bank, questioning if this was resolved? The Operations Manager noted that the farmer was written to, as agreed, and the Board have not heard anything more, nor have encountered any further issues.

(f) Sempringham Fen Pumping Station – Proposed Weed Screen Cleaner

An agreement with the Crown Estate to lease the land, to construct a weed dump area and access for the installation of an automated weedscreen cleaner, is still being awaited.

The Finance Manager added that one of the factors holding it up was around the VAT element and confirmed that the Board has only paid the net amount as opposed to the VAT as well. The solicitor has conveyed that everything is now in place to move forward.

(g) <u>Proposed revetment works – Drain 31/3 – North Drove, Quadring Fen</u> FX1209

There is some bank slippage adjacent to where the road is cracked and so highways have been contacted to ensure they are aware that the works of the Board has not caused the road to crack, photos will be taken before and after. The road will require closing for the works and is estimated to cost £24,000.

(h) Slip repair works - Cow Bridge, Beck Bank, Quadring Fen - FX1852

This is a recent slip potentially caused by what appears to be a leak from the adjacent irrigation equipment. Investigations will be carried out and discussions with the landowner will take place to establish the cause. The Chairperson noted that he believes there is currently a short-term tenant on the land.

(i) Desilting of Gosberton Pump Drain & Pumping Station Suction Bay Works

Work has been done under the pumping station to inspect and check over and to ensure that the channel under the station is clear. It is the intention to complete works under all of the pumping stations to complete inspections and replace all nuts and bolts. These inspections being required as the Board does not have an accurate record of when the pumps were last inspected and so the aim is to get round all the pumping stations as quickly as possible, to prevent the nuts and bolts rusting away, as has done previously, and potentially causing damage to the pump shafts and impellers

Mr P Holmes felt it commendable that the Board is learning from the past and rectifying that by putting together a programme of inspections.

The Pump Engineer added that the condition of the structure of the suction bays have generally been good, with nothing alarming or worrying so far.

(j) Gosberton and Dowsby Fen Pumping Station 750Kva Transformer

Following a recent inspection of the nine pumping station transformers, the one at Gosberton Pumping Station, that also powers Dowsby Fen Pumping Station, is at point of failure. The engineers report stated: 'Oil sample report states high levels of dissolved gases including CO2 and Ethane which suggests the paper insulation is breaking down. This means the transformer is at risk of failure and I would recommend looking at replacing the transformer as soon as possible'.

It is not known how much longer the transformer will last, it is also not known what a failure of the transformer would entail i.e., would it just stop working or could it cause a fire?

The Chairperson suggested that a new transformer be installed and an ongoing programme of review for all the transformers.

The Chief Executive confirmed that it is not known why the Board decided to place the transformers internally and take ownership of them, further questioning whether it would be viable for the electricity supplier to install a transformer to feed the pumping station.

The Pump Engineer noted that he is meeting with Western Power Distribution tomorrow and so can discuss that with them. The Finance Manager noted that he would think, at the time the pumping station was built, there was not enough power available to supply the pumping station.

Mr V Barker noted that the supply running across his land was installed a number of years after the pumping station was built. Mr V Barker added that the worst condition transformers do need changing, but in the Board's own time, noting that each station has the ability to be powered by tractor should it be required. Further referring to Gosberton Pumping Station and that if it gets to a certain level, it will go to Donington Pumping Station. Mr V Barker questioned whether transformers are available from other countries.

The Chairperson confirmed that the Board's Officer's need to source the most cost-effective solution, whether that be for Western Power Distribution to put their own transformer in or the Board purchases and continues with our own transformer.

The Chief Executive further suggested questioning Western Power Distribution about what the transformer failing would entail i.e., would it be likely to catch fire?

The Operations Manager added whether it is an insurable risk, the committee being reminded that currently all the pumping stations are self-insured.

Mr V Barker questioned whether the oil level of the transformer has been checked? The Pump Engineer confirmed that oil checks are done as part of regular maintenance visits.

Mr J Fowler added that if the Board owns and replaces the transformer, which is typically an electric board asset, whether the Board should be getting cheaper electricity, also being suggested to inform Woldmarsh.

Mr K Casswell proposed that the Board's Officer's get some quotes, find out what impact 'failure' of the transformer is likely to have and go from there. It was noted that it will have to be presented to the Board for approval anyway. Mr V Barker seconded, all AGREED.

(k) JCB Hydradig Demonstration

The committee viewed a demonstration of a JCB Hydradig machine on site during the inspection, a machine recently purchased by Welland and Deepings IDB.

The Chairperson suggested that a letter of thanks be sent to Welland and Deepings IDB for doing the machine demonstration for the committee, noting that it will be interesting to see how they get on with it during the season.

The Operations Manager noted the benefit of a neighbouring IDB purchasing a potential new machine and that they will hopefully continue to be honest and open about how they are getting on with it.

Mr K Casswell noted that it may also be worth approach JCB to say the Board are interested in the JCB Hydradig machine but have some concerns with it, that they may be able to adapt.

(I) Water Levels

Mr V Barker noted that when a pump first starts is when it uses lots of power, if the levels were kept lower, then it would decrease the power consumption used in the first instance.

The Operations Manager noted that the Board's Officer's reviewed the levels in January 2021 and now hold water levels higher than has been done previously, as a result of confidence in how to manage the catchments effectively during events, noting that after the initial start, power consumption reduces.

The Operations Manager noted that to reduce costs, pumping has to be reduced and levels managed, which they are. Going forward, if replacing pumps, they would be replaced with equipment that has the ability to control how they are pumping.

Mr V Barker noted that he is referring to the current day and that he is talking about lowering the electrode on the duty pump, pumping for longer so that it wasn't required to start as many times and use power.

The Pump Engineer noted that if pumping for longer and lower, it will take some gravitation away.

The Operations Manager noted that the Officers believe they are operating in the most cost-effective way.

(m) <u>Proposed diversion of Drain 28/30</u>, New House Farm, Morton North Drove (Refused)

The application for the proposed diversion of drain 28/30 was refused by the Board at the meeting on 14th June 2022, the landowner has been notified and have noted that they will look at alternatives.

(n) <u>Dyke Fen Pumping Station – Proposed pump motor refurbishments</u>

As part of ongoing preventative maintenance, the Operations Manager proposed:

- Refurbishment of Dyke Fen Pumping Station electric pump motor in 2022/23, estimated at a cost of £3,000. All AGREED.
- Refurbishment of Dyke Fen Pumping Station pump and electric pump motor refurbishment, estimated at a cost of £25,000. All AGREED.

(o) Loss of land issues, new cut drain, Dyke Fen

An enquiry was raised from the landowner on the south side of the New Dyke discharge drain regarding loss of land. A site meeting was held in November 2021 at which the Operations Manager, landowner and his NFU advisor were present.

The landowner would like the land lost through slippage of the banks to be reinstated. He was advised that the only means of possible compensation is through the Board's Crop Loss Policy (Policy No. 46), in which it states that 'the Board will only pay land loss compensation to the landowner for widths lost greater than 500mm'.

Mr K Casswell felt there is now a greater issue to resolve, following the site visit, it now being seen that an unconsented fence has been erected within the byelaw distance.

The Chairperson and Mr K Casswell felt there was no case to answer.

It was confirmed that there is no previous measurement from top of the bank to top of the bank to compare with current measurements.

The Finance Manager added that the Board cannot be responsible for natural erosion of a bank and the danger of setting a precedence.

It was confirmed that the landowner will be written to regarding the breach of byelaw no. 10 (the 9-metre byelaw) (erection of fence). It was suggested that the landowner be informed that the Board are not willing to pay compensation because it is natural erosion of the bank, as opposed to as a result of the Board's work. All AGREED.

Mr P Holmes suggested that the byelaw breach be dealt with first.

(p) Proposed culvert works and WPD underground cable replacement - Twenty

This culvert was initially put in to carry an underground cable, Western Power Distribution (WPD) have gained consent to re-route the cable, as the culvert has become damaged. Once WPD have carried out this work, the Board will then remove the culvert (no longer required by landowner). WPD are yet to complete the work, but if the culvert fails further to the point of blocking the watercourse the Board will remove it.

(q) Proposed project with the Lincolnshire Wildlife Trust – Bourne North Fen

Lincolnshire Wildlife Trust have purchased 50 hectares at the confluence of the River Bourne Eau and Glen to create a water storage and transfer reservoir.

(r) 10 Year Capital Schemes Budget

The committee noted the 10 year capital schemes budget.

2004 Receive the Engineer's Report - Agenda Item 8

1. Capital Asset improvements

(a) 2022/23 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) Remote monitoring, telemetry H&S scheme

This scheme involved the telemetry upgrade, and the installation of metric gauge boards and CCTV at all the Board's pumping stations. The additional contingency available for this scheme has been claimed to enable all this work and some further work on control equipment and everything has now been installed and is operational.

(ii) Swaton Natural Flood Management (NFM) schemes

An update was given on the three sites being worked on with the Environment Agency for attenuation; the Holland Road Farm site is completed, works on the other two sites (Grove Farm and Manor Farm) have started but had to stop in November 2021 due to awaiting an agreement with the Crown Estate. It is hoped to be completed by March 2023.

It was noted that there have been no major fluvial events since the Holland Road Farm site has been completed, but that the landowner has four outfall drains running into it and it has filled up and proven it works.

(iii) Sempringham Fen Pumping Station Refurbishment

An agreement with the Crown Estate to lease the land, to construct a weed dump area and access for the installation of an automated weedscreen cleaner, is still being awaited.

The Finance Manager added that one of the factors holding it up was around the VAT element and confirmed that the Board has only paid the net amount as opposed to the VAT as well. The solicitor has conveyed that everything is now in place to move forward.

(iv) SFF Upper catchment Natural Flood Management (NFM)

The completed studies showed that Morton, Aslackby, Billingborough and Helpringham catchments holds the best opportunities for NFM implementation. No works have been started on site yet, landowner engagement has been positive, but are not willing to commence works until crops have been harvested.

(v) Lane Dyke culvert replacement

Lane Dyke culvert was proposed for Grant in Aid funding but, unfortunately, has not met the criteria to release the funding.

(vi) Black Sluice Catchment Strategy

A grant for £250,000 has been applied for, to bring all of the catchment studies together and complete any outstanding catchment surveys, with an aim to complete the whole of the Board's area. This will enable a review of how the catchment is managed and identify opportunities for change i.e., merging of catchments.

(b) 2022/23 Board funded capital schemes

(i) Graft Drain

The intention for the remaining unspent budget was for the scheme to recommence over the year end period utilising the remaining 2021/22 budget of £33,922 and the £60,000 from the 2022/23 budget. This did not happen due to works being completed for the Environment Agency during this period, which also recovered some of the unbudgeted costs. This unspent budget has been re-allocated to other higher priority schemes in 2022/23. It is still intended to complete the Graft Drain project, but a budget has not currently been identified.

(ii) Major Slip repairs

Following two wet winters c45 bank slips have been identified, of which work on repairing these slips has commenced. It is believed there is c£100,000 work to complete.

(iii) Jetting to Major Pipelines - Estimate £20,000

A meeting is being held with the contractor tomorrow to discuss the completion of the Donington and Kirton catchments and also to form a tender package for next year's work.

(iv) Dyke Fen Pumping Station refurbish 1 pump motor – Estimate £3,000

One of the electric motors that drives the pump will be removed for refurbishment.

(v) <u>Dunsby Fen Pumping Station refurbish 1 pump motor – Estimate £3,000</u>

One of the electric motors that drives the pump will be removed for refurbishment.

(vi) Gosberton Fen Pumping Station refurbish 1 pump motor - Estimate £4,000

One of the electric motors that drives the pump has been removed and is currently being refurbished.

(vii) Alternative Programme Access works

These works are to enable ongoing new maintenance methods providing access for alternate bank cuts, through flailing, bushing, and placement of side entry access culverts.

(c) 2023/24 Defra/EA FCERM GiA Schemes

(i) Natural Flood Management (NFM) Studies – £150,000

An application has been made for £150,000 funding for continuing with the NFM studies and doing the works.

(ii) Central Catchment Amalgamation Study - £100,000

This study is to develop the findings from the Catchment Strategy and understand the potential for changing the existing water level management in individual catchments, by amalgamation of adjoining catchments.

(d) 2023/24 Board funded capital schemes

(i) Quadring North Fen roadside revetment – Estimate £24,000

There is some bank slippage adjacent to where the road is cracked and so highways have been contacted to ensure they are aware that the works of the Board has not caused the road to crack, photos will be taken before and after. The road will require closing for the works and is estimated to cost £24,000.

(ii) <u>Dyke Fen Pumping Station pump and pump motor refurbishment –</u> Estimate £25,000

As part of ongoing preventative maintenance, all AGREED works as per Minute 2003(n).

2. Emergency Response Plan

The committee were reminded that during an event, when the South Forty Foot Drain (SFFD) becomes 'full' (+2.70DN at Black Hole Drove), the Officers of the Board have to consider switching pumps off.

3. Crop Loss

The Chief Executive highlighted the sentence with paragraph three of the Board's Crop Loss Compensation policy (no. 46), 'compensation will not be payable for access through grassland'.

The Chief Executive referred to crops such as hay and sileage, which have been viewed as 'grassland', questioning whether the policy needs to be reviewed to include paying compensation for crops such as these.

Mr K Caswell felt it should be included as it has quite a high value.

Discussion took place around this type of crop and how many variants there are, Mr J Fowler suggested the terminology 'harvested grass crop'.

Further discussion took place around whether damage is done to such a crop when travelling over it, it being confirmed that where material is deposited on the crop, compensation is paid, this matter being about whether compensation should be paid for grassland when travelled over with Board machinery.

Mr P Holmes noted that grassland is similar to wheat; if travelled on during its earlier stages it wouldn't cause damage, whereas if travelled on at a later stage, it would cause damage.

The Operations Manager suggested the phrase 'unless agreed damage caused', but the Finance Manager felt this was too wide ranging.

It was noted that there will be very few cases of damage to grassland type crops in August when the Board begin cutting.

All AGREED that the only change required is within section four or the policy, 'Other maintenance works (de-silting / bushing)', with the addition of harvest grass as follows. 'Where notice of entry has not been served and a field has been cultivated, drilled, planted or sprayed, compensation will be calculated at the rate of £1,495 per hectare for cereals and harvested grass, and £1,720 per hectare for oil seed rape.'

2005 Report on Rainfall - Agenda Item 9

The rainfall figures at Black Hole Drove and Swineshead were circulated. The Committee RESOLVED that this report be noted.

2006 Any Other Business - Agenda Item 10

(a) Southern Works Co-opted Member Suggestion

Mr V Barker suggested that Elaine Richardson be invited on the Southern Works Inspection Tour, noting she is a working farmer and a female, to try and address the male dominated Board. It was felt she be invited to the next Southern Works Inspection Tour.

(b) <u>Complaint - Drainage and maintenance issues - land south of the Risegate</u> <u>Eau, Gosberton Fen</u>

Mr V Barker stated that, as a rate payer, he has a complaint to make in relation to drain 176 to 177.

Mr V Barker referred to Minute 1549 (Board 21 November 2019) and Minute 1591 (Southern Works Committee 4 March 2020) regarding drainage and maintenance issues of land south of the Risegate Eau, Gosberton Fen. It was suggested increasing the maintenance, which has been done, but has not resolved the issue.

Mr V Barker next referred to the survey that is still yet to be completed, noting that he has asked the Operations Manager numerous times and keeps getting told that it will be completed.

Mr V Barker explained the history of the issue; he contacted the Board in 1988 in which it was discussed, and consideration given to putting a pump in. Mr V Barker noted he believed it was possible to resolve the issue, without a pump. The matter was also on the agenda of the Board inspection in 1999, however the meeting didn't go ahead because of emergency event. Mr V Barker then contacted a drainage engineer who provided a report in April 2000, of which a copy was given to the Board.

Mr V Barker noted he has photos showing the drain full of water, land that can't be let because of the flooding issue.

Mr V Barker next referred to the Board's Risk Management Strategy, particularly Risk 1.4 and one of the method's of managing it, 'All watercourses are desilted on a regular basis'. Mr V Barker noted that it has not been cleansed for the last 44 years and is also not sure if it has ever been cleansed since the new culvert was installed c60 years ago.

Mr V Barker offered what he felt would be a viable solution; noting that there is around 300 metres where the drain has gone narrow. Mr V Barker referenced the 'Berky' machine that was used years ago, with rakes that pulled the bottom and bank out to keep the width, which the newer machines don't do. Mr V Barker felt that some silt needs removing from the bottom and possibly the sides.

Mr V Barker noted that it has brought him no joy in bringing up this matter but will be making an official complaint if he has not received a positive response by the next Board meeting. He noted that he will also involve the ombudsman, auditor, MPs and NFU legal committee, but doesn't want to go down that route.

The Operations Manager responded, explaining that the person completing the survey is also completing the catchment survey studies and has got an order to complete this survey as soon as the catchment studies are completed. The survey will then show any benefit from making changes to the drain. The Operations Manager noted that it is low lying land, noting that the only way the conveyance will be improved will be to lower the outfall. The survey will give an accurate picture of the scenario, with short term fix in the meantime until the survey is complete, being to increase maintenance to reduce vegetation and this allow conveyance.

Mr V Barker stated that it is trying to get water to flow down a 'narrow crack' as the drain has lost its shape.

There being no further business the meeting closed at 17:45.

BLACK SLUICE INTERNAL DRAINAGE BOARD

MINUTES

of the proceedings of a Meeting of the Northern Works Committee

held at the Office of the Board on the 19th July 2022 at 15:35

Members

Chairperson - * Mr P Holmes

- * Cllr T Ashton Clir P Bedford Mr D Casswell * Mr J Fowler * Mr M Leggott
- Cllr F Pickett * Mr P Robinson
- * Mr R Welberry

- Cllr R Austin
- Mr M Brookes
- * Cllr M Cooper Clir M Head
- * Mr R Needham Mr J E Pocklington Cllr P Skinner

(* Member Present)

In attendance: Mr I Warsap (Chief Executive)

Mr D Withnall (Finance Manager) Mr P Nicholson (Operations Manager) Mr S Harrison (Works Manager) (Pump Engineer) Mr K Methlev

(Southern Works Chairperson) Mr M Rollinson

Mr A Miles (Guest)

2007 Recording the Meeting – Agenda Item 1

Members were informed that the meeting would be recorded.

The Chairperson thanked the Officer's for organising an interesting and informative inspection.

2008 Apologies for absence - Agenda Item 2

Apologies for absence were received from Mr K Casswell, Cllr P Skinner, Mr J Pocklington, Cllr M Head, Cllr F Pickett, and Cllr P Bedford.

2009 Declarations of Interest - Agenda Item 3

There were no declarations of interest.

2010 Terms of Reference - Agenda Item 4

All AGREED to recommend the Northern Works Committee's Terms of Reference to the Board for approval.

2011 Minutes of the last meeting - Agenda Item 5

The Minutes of the Northern Works Committee, which was held on 7th September 2021, copies of which had been circulated, were considered. It was AGREED that the Minutes should be signed as a true record with the following amendment:

• Minute 1839(4) – spelling error in the first paragraph – 'Preparation works for this will include re-vegetation' should be 'de-vegetation'.

2012 Matters Arising - Agenda Item 6

(a) Proposed works to Drain 14/2, Mill Green Farm, South Kyme – Minute 1839(1)

Mr D Casswell noted that, as landowner, a quote has been received from the Board to carry out the works, but are not happy to continue with the price that has been quoted.

The Operations Manager noted that he has provided an estimate for materials and for the Board's workforce to complete the works, noting that Mr D Casswell is within his rights to complete the works himself or by a contractor of his choice, as long as it is completed to the Board's specification. The Operations Manager noted that he is aware the Board is not competitive within the market.

(b) Breach of Board Consent - Coles Lane, Swineshead - Minute 1839(9)

The Chairperson questioned if there was any update on this?

The Chief Executive responded that the agreement has been drawn up and is with their solicitors.

2013 Discuss the Operations Report and Inspection - Agenda Item 7

The Operations Manager led discussions about the inspection, as follows.

(a) Great Hale Pumping Station – Weedscreen Cleaner Refurbishment

The weedscreen cleaner (installed 1999) requires the moving parts replacing – including the trolley and control cabling. The proposed budget for this is £75,000.

The Finance Manager raised a point made by one of the guests in attendance on the inspection tour that a potential option could be for the Board to purchase the components and find someone to do the work ourselves.

The Operations Manager noted that, installed in 1999, this equipment has served the Board well over that period, this is preventative maintenance, not reactive. Also noting that using the manufacturer would offer a guarantee on the works completed. It being noted that a new trolley would have a one-year warranty.

The Chief Executive noted that it is about having the reassurance that when switched on in times of need, they will work.

Clir T Ashton questioned if this head unit is the same as others that will need replacing in the near future? Questioning, if, once redundant, a price for refurbishing the trolley could be sought, as it then wouldn't be holding any projects up. Also noting that a cost of £75,000 over a period of 25 years is not that much.

The Pump Engineer noted that the trolley will be utilised for spare parts.

The Operations Manager further noted that the weed screen cleaners have to work hard, and so reliability is a key factor.

The Chairperson noted that the last time Great Hale Pumping Station pumped was in March, so there will be a large build-up of weed in that time.

(b) Great Hale Pumping Station - Crossing point

The Chief Executive explained that the landowner / tenant has been written to explaining the Board's concern for damage to the pumping station, especially the control panels, from vibrations caused by their farm machinery travelling over the crossing point (in the 1960's). Their response was that they have the right to use the crossing point through a legal agreement. The Board has investigated it and they do have the right to use the crossing point, in a written agreement.

The Chief Executive noted two suggestions for moving forward as follows:

- Internal structural investigations around the integrity of the reinforced concrete
- Obtain quotes for extending the crossing point to include a nonvibration process and approaching the landowner for a contribution towards the cost of that (Chief Executive's preferred option)

Mr J Fowler suggested that a crawling speed limit be imposed (2mph) to help reduce the vibrations. Mr M Leggott noted that signage would need putting up to ensure all drivers were aware. It was also noted that the CCTV from the pumping station covers the crossing point and so could see if somebody was going a lot over the speed limit.

Cllr M Cooper questioned whether the Board could enforce a weight limit on the crossing point to prevent heavy machinery travelling across it? The Chief Executive was unsure, noting that legal advice would have to be sought, his concern being that because the Board agreed to the right of way, would an alternative have to be offered?

All AGREED for Officer's to obtain quotes to extend the crossing point to include a non-vibration process.

(c) <u>Lincolnshire County Council (LCC) A17 widening proposals and impact on Board assets</u>

The Operations Manager explained that Board's Officers had an initial meeting with LCC about the potential impacts on Board's assets of the proposals to widen the A17 include possible culverting and realignment of watercourses, however the plans have still yet to be refined, and information about the scheme corridor and plans are to remain confidential, until the final option has been identified.

The Operations Manager noted that his preference would be for the Board to complete any realignment and Lincolnshire County Council Highways would complete any culvert works.

Mr M Leggott questioned whether the Board own the land where there is probable watercourse culverting? The Operations Manager confirmed that it is not owned by the Board. Mr M Leggott noted that if it was culverted there is the danger of the land being seen as open or common ground.

(d) Heckington Fen Solar Park

The proposed solar park could affect the Board's access to maintain board-maintained watercourses within the site. The hatched lines shown on the plan within the agenda are proposed fences within the site. The Operations Manager and Planning and Byelaw Officer have had a meeting with the consultants to raise the concern of the Board's access to maintain the watercourses and are currently awaiting an updated plan.

(e) Trinity College Pumping Station – bank seepage from EA Skerth Drain

This station has encountered water seepage from the main river, as a result of high-water levels, similar to the other sites at Damford, South Kyme and Ewerby. Investigation works have been carried out and the recommendation included within the agenda, highlighted as follows:

- Long term consolidation settlement of the high compressibility clays of tidal flat deposits under loading from the embankments and concrete wall.
- Long term creep settlement of peat layers within the tidal flat deposits.
- Downslope ground movements in the embankment in front of the wingwalls.
- Shrinkage / swelling of the clay fill forming the embankment associated with seasonal wetting and drying.

The Environment Agency (EA) have so far provided £50,000 funding for the investigations across the four sites as the problem is from an EA main river. The challenge now being to get the works completed at all four sites. The Board's contact has been in receipt of all the investigation reports and recommendations but there has been no indication of moving forward.

Mr M Leggott noted that there is an RFCC Meeting next week, suggesting members of it could raise the issue there and let them know the Board are pushing it.

It was noted that the EA's philosophy of 'fix when fail', stated by Norman Robinson at an RFCC Meeting, is worrying.

The Operations Manager noted that he believes the EA's hesitancy for the works is around the uncertainty of where the South Lincolnshire Reservoir will be sited and the impact that could have. However, the Operations Manager noted that it could be another 17 years before the reservoir is operational and the banks may not last that long.

Cllr M Cooper added that this should be categorised as a 'day to day' repair, noted that this needs resolving now and that it cannot afford to wait for the potential reservoir. Cllr R Austin echoed what a high risk it is.

Mr M Rollinson questioned if a cost estimate for the work is known?

The Operations Manager responded that he has no idea of cost, but that it would be dependent on how the EA wanted the works completing, i.e., through Public Sector Cooperation Agreement (PSCA), and whether the Board's workforce would have the capability to complete the works in-house or whether a subcontractor would be used.

The Operations Manager further noted that the company who carried out the investigation works have quoted £50,000 for the Damford, South Kyme and Ewerby Pumping Station sites to provide a specification. The Operations Manager being of the opinion that if the Board's workforce were to complete the works, there is enough information within the investigation report that this would not be required.

Mr M Rollinson noted the tendency of the EA to have lots of funding available at the end of the year and encouraged Officer's to ensure schemes are ready and eligible to apply for any available funding.

The Operations Manager noted that there is some concern at the EA about how this scheme would be presented as to be eligible it has to show benefit over a period.

Mr M Brookes suggested a more formal and documented route be taken with this.

The Chairperson agreed to take it further through a more official format. The Finance Manager noted that the only risk is that it may erode some good will.

Mr R Needham echoed his support for a more official format of communication on the matter to be taken, to ensure the Board has something to go back on.

(f) <u>Langrick Corner, Boston – Completed Scheme works on the North Forty</u> <u>Foot Drain</u>

The lagoon site was visited, where subject to the silt within it being dry enough will be spread and levelled this financial year to reduce maintenance of the site for the remainder of the 5-year lease agreement.

The Operations Manager referred the committee to the photos within the agenda of the de-vegetation works on the North Forty Foot Drain (NFFD).

Cllr T Ashton referred to the structures on the banks shown within these photos, questioning their status?

The Operations Manager explained that adjacent property / land owners were written to regarding notification of the works, within which it was noted that the Board were aware of structures built on the banks and that they are the owner's responsibility, meaning if they were to fail and fall into the drain, the Board would seek to recover any costs associated with its failure. The Operations Manager noted that only a 'handful' of the structures are consented.

Mr J Fowler felt that a detailed photographic record of consented structures be taken for future reference. The Chairperson felt it should be all structures – consented or not.

(g) Proposed CCTV & Jetting 2022-2023

A meeting is being held with the contractor to discuss the completion of the Donington and Kirton catchments and also to form a tender package for next year's work.

(h) Wyberton Marsh Pumping Station – Transformer Issues

Following a recent inspection of the nine pumping station transformers, the one at Wyberton Marsh (original transformer), although tested sufficiently, following discussion with Western Power, should be raised to provide the same resilience as the control panels and pump motors in the station and to ensure it is not submerged in water. Until further discussion is had with Western Power the cost associated with raising the transformer is not yet known. It was noted that if Western Power were to do the work they may want to replace the transformer.

(i) <u>Kirton Marsh Pumping Station – Machine demonstration, Incoming</u> Electrical Supply Issue and pollinator project

The low voltage incoming supply connection is below the floor level of the pumping station. The current Pump Engineer has held initial discussions with Western Power regarding moving this to a higher and more resilient position.

(j) Outer Dowsing Wind Farm Project

The Board has been consulted regarding the proposed Outer Dowsing Wind Farm Project due to the Board's land ownership at Kirton Marsh.

2014 Receive the Engineer's Report - Agenda Item 8

1. Capital Asset improvements

(a) 2022/23 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) Remote monitoring, telemetry H&S scheme

This scheme involved the telemetry upgrade, and the installation of metric gauge boards and CCTV at all the Board's pumping stations.

The additional contingency available for this scheme has been claimed to enable all this work and some further work on control equipment and everything has now been installed and is operational.

By being able to control the pumps remotely, it means the human element of having to physically attend the stations to switch pumps on / off, often in bad conditions, during events, is avoided and therefore reducing that risk. The Chairperson also noted that not all of the workforce have 4x4 vehicles and so accessing some of the pumping stations can also prove difficult.

(ii) North Forty Foot Cleansing / Revetment

This work is now almost complete. The 175m open cut section has been completed, with the c25m piped section under the road, which will be subject to a contribution from LCC, and the c75m section through the garden of No 24 Langrick Road where these sections are to be lined remaining, it is expected that this will be completed this year. One quote has been received, with another to be obtained. Grant in Aid funding is based around the value and benefit the scheme provides, the benefit of this scheme being to provide protection to people and property, but until all work is completed the benefits are not realised and cannot be claimed

(iii) Black Sluice Catchment Strategy

A grant for £250,000 has been applied for, to bring all of the catchment studies together and complete any outstanding catchment surveys, with an aim to complete the whole of the Board's area. This will enable a review of how the catchment is managed, identify the condition of major assets, and identify opportunities for change i.e., merging of catchments.

The unknown location of the South Lincolnshire Reservoir (SLR) could have some implications; however, the aim is to have a plan ready.

This scheme was proposed in March 2022, but funding is still being awaited, it is being presented at the next RFCC Committee.

Mr M Rollinson noted that this is a very important scheme, adding that the major works were done around 60 years ago, and a scheme designed now would work very differently to that currently in place.

The Chairperson added the benefit of having schemes ready for when funding suddenly becomes available.

The Operations Manager further added that the Board need to ensure they are maximising the potential funding within any Business Case, noting that a neighbouring IDB has achieved £3million for a new pumping station.

(b) Information on site inspection at Trinity College

As discussed at Minute 2013(e).

(c) 2022/23 Board funded capital schemes

(i) Major Slip repairs

Following two wet winters c45 bank slips have been identified, a budget of £90,000 has been allocated to complete the repairs.

The works have started and will continue until the cutting season start in August, they will then be resumed as soon as possible following the cutting season.

(ii) Jetting to Major Pipelines – Estimate £20,000

As discussed at Minute 2013(g).

(iii) Alternative Programme Access works- Estimate £20,000

These works are to enable ongoing new maintenance methods providing access for alternate bank cuts, through flailing, bushing, and placement of side entry access culverts.

2. Proposed Works 2023/24

(a) 2023/24 Defra/EA Funded Flood and Coastal Erosion Risk Management (FCERM) Grant in Aid (GiA) Schemes

(i) North Catchment Amalgamation Study - £100,000

This study is to develop the findings from the Catchment Strategy and understand the potential for changing the existing water level management in individual catchments, by amalgamation of adjoining catchments.

(ii) Bicker Fen Catchment Works Study - £20,000 Estimate

This is a continuation of works already started to provide information needed towards building a Business Case.

(b) 2023/24 Board funded capital schemes

(i) Jetting to Major Pipelines – Estimate £75,000

These works are within the Wyberton Marsh, Kirton Marsh and Chain Bridge catchments and it is proposed that these works go out to tender for completion in 2023/24.

(c) Pumping Station Schemes

(i) <u>Great Hale Fen Pumping Station – Pump Refurbishment - £75,000</u> Estimate

As discussed at Minute 2013(a).

(ii) <u>Kirton Marsh Pumping Station</u> – New Roof - £11,000 Estimate

A new roof is proposed for this station, having been deferred previously, at an estimated cost of £11,000.

3. Emergency Response Plan

The committee were reminded that during an event, when the South Forty Foot Drain (SFFD) becomes 'full' (+2.70DN at Black Hole Drove), the Officers of the Board have to consider switching pumps off.

4. Crop Loss

The Chief Executive highlighted the sentence with paragraph three of the Board's Crop Loss Compensation policy (no. 46), 'compensation will not be payable for access through grassland'.

The Chief Executive referred to crops such as hay and sileage, which have been viewed as 'grassland', questioning whether the policy needs to be reviewed to include paying compensation for crops such as these and explaining the agreed recommendation from the Southern Works Committee as follows, section four or the policy,

'Other maintenance works (de-silting / bushing)', with the addition of harvest grass as follows. 'Where notice of entry has not been served and a field has been cultivated, drilled, planted or sprayed, compensation will be calculated at the rate of £1,495 per hectare for cereals and harvested grass, and £1,720 per hectare for oil seed rape.'

All AGREED with the addition of 'and harvested grass' as above.

2015 Report on Rainfall - Agenda Item 9

The rainfall figures at Swineshead were circulated. The Committee RESOLVED that this report be noted.

There being no further business the meeting closed at 17:05.

BLACK SLUICE INTERNAL DRAINAGE BOARD

JOINT WORKS COMMITTEE MEETING - 04 OCTOBER 2022

AGENDA ITEM 09

ENGINEER'S REPORT

1. CAPITAL ASSET IMPROVEMENTS

1.1 2022/23 Defra/EA Funded Grant In Aid (GiA) Schemes

GiA Scheme works to be commenced this financial year:

(a) North Forty Foot cleansing/revetment & Langrick Road pipeline, lining/replacement works

Total scheme value is £472,000. The approved sum is calculated as follows:

£394,000 GiA £70,000 Board contribution £8,000 Development contribution Local Levy support is no longer required for this scheme.

As reported to the Northern Works meeting in July, the majority of the pipeline has been replaced, tenders having been requested for the remaining sections proposed for lining.

The desilting of 1.5km upstream section of the North Forty Foot from Cooks Lock Pumping Station has been completed along with the bushing works. The silt containment lagoon following periodic monitoring, having dried out sufficiently, was spread and levelled at the beginning of September.

This scheme is now estimated to be completed by March 2023.

(b) Sempringham Fen weedscreen cleaner/pumping station refurbishment

Total scheme value is £208,000. The approved sum is calculated as follows:-

£153,500 GiA £27,500 Board contribution £27,000 Local Levy support

Works are programmed to progress on this scheme subject to completion of a 20-year land lease agreement with Crown Estates, which is taking longer than anticipated, and has also been further delayed due to the death of Her Majesty the Queen.

Works are now estimated to be completed by March 2023.

(c) Remote monitoring, telemetry H&S scheme

As reported to the individual Works Committees in July, works have now been completed on this scheme, with all of the 34 pumping stations operational remotely. The metric gauge boards have all been purchased and installed. The CCTV at all the sites has been installed. In total £188,508 has been spent on this scheme with £189,500 funded from Grant money. Originally the Board was contributing £57,000 to this scheme but that was not necessary when the bid was reworked, and the entire scheme was funded through FDGiA. An additional £20,000 contingency was claimed to fund the installation of the remaining telemetry units and an additional controller that is required for Chain Bridge Pumping Station and the setting up of the CCTV and controller software.

(d) Black Sluice Catchment Study

This Scheme has been commissioned, and an application for GiA funding has been made, to bring all the individual catchment studies together and complete any other catchments with the overall aim of the entire Board's catchment area being considered in one study. This will then give a complete picture of the Board's catchment area, identify the benefits available to enable funding opportunities and enable better decision making going forwards, especially in relation to the replacement of pumping stations and the potential change or merging of catchments. The total Grant applied for to complete this scheme is £250,000. This scheme is being proposed through a SCAPE framework procurement agreement, with an initial meeting having taken place with Stantec on 21st September who are a SCAPE framework provider. This proposal will be on the agenda of the next Audit and Risk committee meeting on 25th October. See pages 34 - 37 for further information on SCAPE.

Horbling Fen, Dowsby Lode, Haconby Fen, Bicker Fen and Ewerby Fen catchment studies have all now been reprofiled into future years and will be dependent upon the outcome of the Black Sluice Catchment Study.

(e) SFF Upper catchment Natural Flood Management (NFM)

The study, now completed, showed the Morton, Aslackby, Billingborough and Helpringham catchments as those with the best opportunities for NFM implementation. A proposal for funding towards implementation of these schemes was put before the Regional Flood and Coastal Committee (RFCC) Local Choices, and funding received to complete. The survey and landowner engagement work being completed on behalf of the Board by Lesley Sharpe.

A further proposal has been made, September 2022, to the RFCC to increase their funding to cover an anticipated contribution to this scheme of £20,000, to a total of £127,000.

(f) Swaton Natural Flood Management (NFM) schemes

3 sites were identified to attenuate flows in the Swaton catchment. The first site at Holland Road Farm having been completed.

Following agreement with the Environment Agency on budget and programme, these sites are being delivered by the Board through the Public Sector Cooperation agreement (PSCA).

It is estimated that the remaining 2 sites at Grove Farm Swaton and Manor Farm Threekingham will be completed by March 2023, with works recommencing on site at Grove Farm w/c 19.09.22.

1.2 Information on site inspection at Trinity College

As reported to the Northern Works Committee in July. During the last high rainfall event Trinity College Pumping Station also experienced water seeping back through the bank, under or through retaining walls, similar to the other sites.

Stantec Engineering Consultants have been asked to complete site inspection works, with a proposal to complete investigation works following this.

Discussions have been held with the Environment Agency and the £50,000 funding has been received for the inspection and investigations works completed to date, across the four sites to include Damford Grounds, South Kyme Fen & Ewerby Fen Pumping Stations.

Site inspection completed by Stantec on 6th July 2021, and site investigations completed in March 2022.

Recommendations for Ground Investigations

Following the completion of the site investigation, better understanding of the potential causes of the ground movements should be determined together with an option appraisal for potential remedial solutions. The findings will be presented in a technical note. Detailed design can then be undertaken once the most cost-effective solution has been selected following consultation with a contactor.

The following Technical Note was received in May 2022 and a copy has been sent to the Environment Agency. Please also refer to pages 38 and 39.

TECHNICAL NOTE

The settlement and separation of the wingwall from the eastern side of the pumping station and the settlement, cracking and tilting of the western wingwall are likely to have occurred due to the differences in foundations. The pumping station is founded on piles and would not be expected to move significantly, whereas the wingwalls have ground bearing footings at high level, and have moved. The movement of the walls is likely to be due to one or more of the following:

- Long term consolidation settlement of the high compressibility clays of Tidal Flat Deposits under loading from the embankment and concrete wall.
- Long term creep settlement of peat layers within the Tidal Flat Deposits.
- Downslope ground movements in the embankment in front of the wingwalls.
- Shrinkage/swelling of the clay fill forming the embankment associated with seasonal wetting and drying.

It is routine for foundations for buildings to be founded at a minimum of 1.0m below ground level(bgl) in high plasticity clay soils (i.e. >40% plasticity index) such as those of the embankment fill, to prevent them being affected by seasonal shrinkage or swelling of the clays due to moisture changes. However, the eastern wingwall was founded in the clay fill at 0.5m bgl and the western wingwall at 0.9m bgl and this may have contributed to shrinkage/swelling movements occurring beneath the concrete walls.

It is considered that the most appropriate form of remediation for the wingwalls would be to replace them with new walls. The most efficient method for this is likely to be to use interlocking sheet piles capped with a concrete wall. This will allow the embankment and the soils beneath it to continue settling without the ground movements affecting the concrete wingwall. Furthermore, the sheet piles should reduce the leakage of water through the embankment. The sheet piles would need to be taken down to toe into a stiff stratum such as the granular soils of the Tidal Flat Deposits. The flow of water through the embankment would be impeded by the sheet piles, however, there are seepage paths through the clay embankment fill close to the pumping station on its western side, which should also be addressed to prevent recurrence of the seepages. Groundwater flow through an embankment can lead to internal erosion and slope instability. Possible remediation measures could include:

- Excavate the embankment fill locally and place clay fill (either reworked embankment fill or imported fill) in accordance with an Engineer designed earthworks specification.
- Install a low permeability barrier/cut-off to groundwater flow by excavation of a trench in the embankment fill behind the new wingwall and fill with bentonite slurry or compacted clay fill.

At a meeting on 12th September with the EA, the recommendations made within this report and those at the other 3 sites were discussed. Stantec having provided a quotation to provide a specification for the works of c£50,000, the EA agreed to investigate with their own consultants a specification towards further discussion and meeting towards delivering the solutions required at each of the sites. The Board's officers emphasised the importance of these works being completed ASAP.

1.3 2022/23 Board Funded Capital Schemes

(a) Major Slip repairs

Please refer to page 40.

Throughout the catchment following two wet winters c45 bank slips have been identified, which is more than to be expected in normal years. Because of this the decision was made, as a priority, to allocate funding to commence repairs.

(b) <u>Jetting to Major Pipelines – Estimate £20,000</u>

Works on the remaining sections in the Donington and Kirton Catchments to be completed this year.

(c) Alternative programme access works - Estimate £20,000

Works are to continue this year to enable this programme of alternate bank maintenance.

(d) Pumping Station Schemes

- (i) <u>Dyke Fen Pumping Station refurbish 1 pump motor Estimate £3,000</u> One of the electric motors that drives the pump will be removed for refurbishment.
- (ii) <u>Dunsby Fen Pumping Station refurbish 1 pump motor Estimate £3,000</u> The electric motor that drives the pump will be removed for refurbishment.
- (iii) Gosberton Fen Pumping Station refurbish 1 pump motor Estimate £4,000 One of the electric motors that drives the pump will be removed for refurbishment.

1.4 2023/24 Defra/EA FCERM GiA Schemes

(a) NFM Studies - £150,000

It is expected that a further funding application for continuation of NFM studies and interventions will be made.

(b) Central Catchment Amalgamation Study - £100,000

This study is to develop the findings from the Catchment Strategy and understand the potential for changing the existing water level management in individual catchments, by amalgamation of adjoining catchments.

1.5 2023/24 Board funded capital schemes

(a) Quadring North Fen roadside revetment – Estimate £24,000

There is some roadside bank slippage along this section of drain that requires repair, which will be subject to a road closure. At a previous site meeting LCC Highways Manager was made aware of the issue, another meeting with LCC will be requested prior to commencement of works on site.

(b) <u>Dyke Fen Pumping Station pump and pump motor refurbishment – Estimate</u> £25,000

Part of ongoing preventative maintenance at this Pumping Station to refurbish the pump and pump motor to one of the pumps, this is a two-pump station.

(c) Jetting to Major Pipelines - £75,000 Estimate

Some of the pipelines within the Wyberton area were last inspected in 2015.

It is proposed that these works should go out to tender for completion in 2023/24.

(d) Pumping Station Schemes

(i) Great Hale Fen p/s pump refurbishment - £75,000(estimate)

The weedscreen cleaner was installed in 1999, and it is proposed to replace the moving parts to include the trolley and control cabling.

(ii) Kirton Marsh p/s new roof – £11,000 (estimate)

A new Apex design roof is proposed for this station. This has been deferred from 2022/23

2. DRAIN MAINTENANCE

(a) Annual Summer Flailmowing/Cutting

The summer flail mowing and cutting commenced with the flail mowers on 1st August, and the cutting on 8th August. A sixth 13 ton excavator operating one of the Boards 4m cutting baskets has been hired in for twelve weeks. Therefore, the Boards maximum production has three flails (Spearhead Twiga No 1 SPV 2 with side flail and cutting basket, Twiga No 2 SPV2 with side flail and front flail, and Twiga No 3 SPV2 with side flail and front flail) flailing in front of the six cutters (Hitachi ZX 210, JCB 150X, JCB JS 145, 2 x JCB JS 130 and hired in JCB131) albeit the Twiga No 1 does change cutting heads and cuts some watercourses.

The 67km (Northern & Southern Works areas) of high profile watercourse assets are constantly being monitored to determine whether a second flail and/or cut is required, these will most probably require a second cut.

The SKDC (c£22.7k) & Mayflower (c£13.2k) Hand Roding contract works have been completed. All the Board hand roding watercourses have been completed. Additional hand roding works are also being completed for the Environment Agency through PSCA.

A bulldozer has been hired in to grade out the previous year's winter cleansing arisings, these works are completed within a small window of opportunity (between harvest and drilling) and will continue as budgets dictate.

EA Waste Management exemptions have been applied for over the next year for burning wood on site, dredging inland watercourses and spreading watercourse arisings over adjacent land.

(b) Prior Notice Given for Summer Cutting

Notice was issued within the 2022/23 Drainage Rates brochure, along with a provisional works programme, stating that all landowners/farmers can view weekly updated accurate summer cutting works programmes on the Boards web site.

Landowners/farmers were requested, to contact the Board with any summer cropping issues throughout the summer cutting season.

A new text messaging service informing landowners/tenants that Boards machinery is working in the area began this year. This has proved successful, and all landowners/tenants are encouraged to provide mobile phone contact details to enable ongoing success.

This has been a success, and we recommend that the Board continue with this approach.

(c) Summer Crop Loss/Damage Compensation

In line with the summer cutting landowners/farmers are encouraged to agree to the Boards equipment travelling through their crops whereby the Board agree crop loss compensation, where crop damage/loss has occurred, instead of the higher costs associated with removing the machine and subsequently returning once the crop has been harvested, albeit in some cases a new crop may have already been planted.

The cutting programme in the drainage rates brochure along with the updated programme on the website will remind all landowners adjacent to all the Board maintained watercourses of the Boards intention to carry out summer vegetation flailing/cutting to the programmes identified on the Boards web site and therefore try to manage fields accordingly. At the same time the programme should be used to assist timely removal of any obstructions (electric fencing, bird scarers, irrigation pumps & pipes etc).

(d) Winter Crop and Land Loss Compensation

The Boards written intention of improvement cleansing works will be issued to landowners in October 2022 for the works to be undertaken throughout December to April 2023. The notice being given, the farmer can decide whether to plant the affected area or not, the arisings are spread and levelled by the landowner or by the Board generally the following year.

(e) Proposed Desilting, Bushing and Cleansing Works

The total length of proposed watercourse for 2022/23 is 48 km.

The total length of watercourses cleansed over the 2021/22 season was 42 km.

Letters have been sent to landowners/occupiers adjacent to the drains above giving notice that the Board intend to bush where required and de-silt during the winter months.

Letters will also be sent to occupiers where the Board proposes to carry out other bushing works in preparation for next year's de-silting. We are currently employing Scarborough Nixon Associates as an external Environmental Consultant to carry out surveys of any relevant drains on our desilting programme.

3. PUMPING STATION MAINTENANCE

At the end of September (Period 5) the budget for maintenance works is £165,613 with the actual expenditure being £151,874 which includes estimated electricity payments.

4. EXTERNAL RECOVERABLE WORKS

Current external recoverable income is £186,427 for rechargeable works compared to £248,161 last year.

5. HEALTH & SAFETY

The Board have appointed Cope Safety Management, agreeing terms on a new contract as their Health & Safety consultants for a 5-year period commencing June 2019.

All employees and contractors to the Board required to work alone, are now using the automated Peoplesafe system using a smartphone mobile phone App.

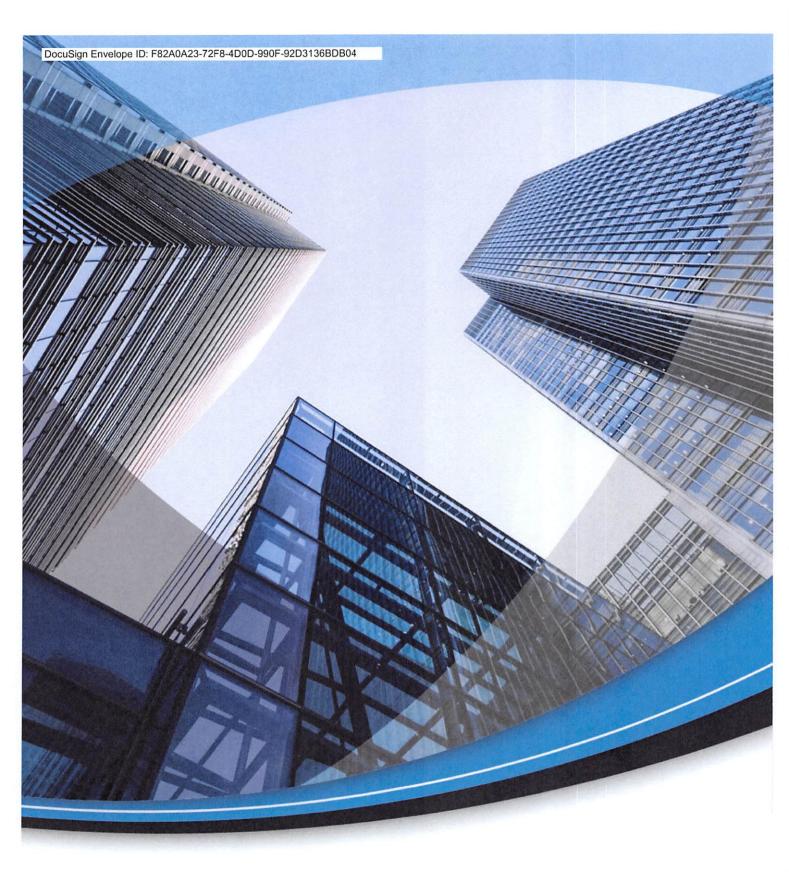
6. EXTERNAL PARTNERSHIPS, STRATEGIES & AGREEMENTS

(a) EA/BSIDB Public Sector Cooperation Agreement (PSCA)

We have, as in other years, continued to flail and cut the highland carrier main rivers along with the health and safety bank top cuts. We have also been approached to provide estimates for additional bushing/flailmowing works to the South Forty Foot Drain(SFFD) EA main river from Black Hole Drove P/S to Donington A52 road bridge to the bank margins on both sides of the river 22.5km total, some sections of which are currently maintained through PSCA. All works completed with our own machinery and recharged back to the EA.

Black Sluice Internal Drainage Board 10 Year Capital Schemes Budget 2022/23 to 2031/32

2022/23 to 2031/32								
Year	Туре	Scheme	Total	rant / Local Lev	Other	Possible Board	Drain	PS
					Contributions	Contribution		
	English and the	Graft Drain improvements Dowsby Lode Catchment Works	£0				£0	
		Haconby Fen Catchment Works						
		Sempringham PS Refurbishment PS Automation & Gauge Boards	£200,594 £20,993	£200,594 £20,993				
		BSIDB NFM Studies	£39,889	£39,889				
	Drain	NFF Revetments/Pipeline 18/19	£149,101	£71,101	£8,000	£70,000		
		Lane Dyke Culvert Replacement Black Sluice Catchment Strategy	£469 £247,249	£469 £247,249				
2022/23		BSIDB NFM Works	£107,000	£107,000				
		Alternative Programme access works	£20,000				£20,000	
		Major Slip Repairs Jetting Major Pipelines	£90,000 £20,000				£90,000 £20,000	
		Dyke Fen PS, refurbish 1 pump motor	£3,000					£3,000
		Dunsby Fen PS, refurbish 1 pump motor	£3,000					£3,000 £4,000
		Gosberton Fen PS refurbish 1 pump motor General culvert replacement contributions	£4,000 £5,000				£5,000	£4,000
			£910,295	£687,295	€8,000	£70,000	£135,000	£10,000
	THE REAL PROPERTY.	BSIDB NFM Studies Central Catchment Amalgamation Study	£150,000 £100,000	£150,000 £100,000				
		North Catchment Amalgamation Study	£100,000	£100,000				
		Bicker Fen Catchment works	£10,000	£10,000				675.000
		Great Hale Fen PS refurbish weedscreen cleaner Jetting to major pipelines	£75,000 £75,000				£75,000	£75,000
2023/24	Pump	Dyke Fen PS, refurbish 1 pump and 1 motor	£25,000					£25,000
		Kirton Marsh PS new roof Quadring North Fen roadside revetment	£11,000 £24,000				£24,000	£11,000
		Alternative Programme access works	£20,000				£20,000	
		General culvert replacement contributions	£5,000				£5,000	
	Drain	NFF Desilting	£595,000 £65,000	£360,000			£124,000 £65,000	£111,000
	Drain	Bicker Fen Catchment works	£430,000	£113,249	£266,751	£50,000	200,000	
	Drain	BSIDB NFM Studies	£150,000	£150,000				CONTRACTOR
		North Catchment Amalgamation Study Jetting to major pipelines	£100,000 £75,000	£100,000			£75,000	
2024/25	Drain	Dunsby Fen Catchment Works	£10,000	£10,000				
LULHILO		Ewerby Fen Catchment Works	£10,000	£10,000				560,000
		Ewerby Fen PS Replace control panel Kirton Marsh PS refurbish 1 pump and 1 motor	£60,000 £30,000					£60,000 £30,000
	Drain	Dyke Fen (New Dyke) revetments	£25,000	900			£25,000	
	Drain	General culvert replacement contributions	£5,000 £960,000	£383,249	£266,751	£50,000	£5,000 £170,000	£90,000
	Drain	Claydyke desilting	£65,000	2303,245	1200,731	250,000	£65,000	2.50,000
	Drain	Haconby Fen Catchment Works						
		Horbling Town Beck Flood Alleviation scheme Dunsby Fen Catchment Works	£10,000 £298,000	£10,000 £45,508	£202,492	£50,000		
		Ewerby Fen Catchment Works	£750,000	£332,410	£367,590	£50,000		
		Damford PS replace control panel	£65,000					£65,000
2025/26		Horbling Fen PS new roof Jetting to major pipelines	£12,000 £40,000				£40,000	£12,000
		Spread & Level Lagoon NFF	£10,000				£10,000	
		Dyke Fen (New Dyke) revetments	£35,000				£35,000	
		NFF Desilting Haconby PS refurbish axial flow pump	£20,000 £25,000				£20,000	£25,000
		General culvert replacement contributions	£5,000				£5,000	
	Denin	Claydyke desilting	£1,335,000 £65,000	£387,918	£570,082	£100,000	£175,000 £65,000	£102,000
		SFFD Desilting Guthrum to Blackhole Drove PS	£60,000				£60,000	
		Jetting to major pipelines	£50,000	7.5204		1000	£50,000	
2026/27		Horbling Town Beck Flood Alleviation scheme Dowsby Fen Catchment Works	£758,000 £10,000	£130,568 £10,000	£577,432	£50,000		
		Gosberton Fen PS Refurbish 3 x axial flow pumps	£75,000	2,0,000				£75,000
		Hacconby Fen PS Replace control panel	£35,000				£5,000	£35,000
	Drain	General culvert replacement contributions	£5,000 £1,058,000	£140,568	£577,432	£50,000	£180,000	£110,000
		SFFD Desilting Guthrum to Blackhole Drove PS	£80,000				£80,000	
		Jetting to major pipelines Cooks Lock p/s refurbish weedscreen cleaner	£50,000 £80,000				£50,000	£80,000
		New Hammond Beck Desilting	£40,000				£40,000	200,000
2027/28		Dowsby Fen Catchment Works	£350,000	£162,686	£137,314	£50,000		
		Bicker Fen replacement control panel Bicker Fen refurb 1 x axial flow pump	£33,000 £25,000					£33,000 £25,000
		General culvert replacement contributions	£5,000				£5,000	
	Dest	Old Hammand Back Docition	£663,000	£162,686	£137,314	£50,000	£175,000	£138,000
		Old Hammond Beck Desilting Jetting to major pipelines	£80,000			Part Carrie	£80,000 £60,000	
	Pump	Donington NI refurbish 3 x axial flow pumps	£75,000					£75,000
2028/29		Kirton Marsh p/s replace control panel Bourne Fen 28/10 Revetment	£35,000 £30,000				£30,000	£35,000
	Pump	Great Hale Fen refurb 1 x axial flow pump	£17,000				230,000	£17,000
	Pump	Helpringham p/s new roof	£13,000					£13,000
	Drain	General culvert replacement contributions	£5,000 £315,000				£5,000 £175,000	£140,000
100000	Drain	Jetting to major pipelines	£60,000	13 35 13			£60,000	1000
		Chain Bridge p/s refurbish 3 x axial flow pumps	£80,000					£80,000
		Gosberton pump drain desilting/pump inspection Dowsby Fen pump drain desilting/pump inspection	£36,000 £36,000				£36,000 £36,000	
2029/30	Pump	Quadring Fen p/s replace control panel	£40,000				200,000	£40,000
	Pump	Allen House p/s replace control panel	£32,000	133				£32,000
		Chain Bridge pump drain desilting/pump inspection General culvert replacement contributions	£36,000 £5,000				£36,000 £5,000	
	Ciulii	The second of th	£325,000				£173,000	£152,000
		Swineshead pump drain desilting/under pump inspections	£60,000				£60,000	E NEW TOWN
		Jetting to major pipelines Horbling p/s control panel	£60,000 £45,000				£60,000	£45,000
PARTITION OF	Pump	Mallard Hurn control panel	£45,000					£45,000
2030/31		Cooks Lock pump drain desilting/under pump inspections	£42,000				£42,000	025 000
		Trinity College refurb pumps Black Hole Drove p/s under pump inspections	£35,000 £25,000				£25,000	£35,000
		General culvert replacement contributions	£5,000				£5,000	
Service 1	Drain	Jetting to major pinelines	£317,000				£192,000	£125,000
803		Jetting to major pipelines Heckington Fen pump drain desilting under pump inspections	£70,000 £24,925				£70,000 £24,925	
	Pump	Billingborough Fen p/s control panel	£50,000					£50,000
2031/32		Dowsby Lode p/s control panel Pinchbeck Fen p/s control panel	£50,000 £50,000					£50,000 £50,000
	Drain	Holland Fen pump drain desilting/under pump inspections	£50,000				£50,000	200,000
	Drain	Helpringham pump drain desilting/under pump inspections	£30,000				£30,000	
EAZ CY	all light		£324,925	CHARLES AND ADDRESS OF THE PARTY OF THE PART		MARKET AND SHAPE	£174,925	£150,000



ACCESS AGREEMENT

FOR THE PUBLIC SECTOR

COMPLIANCE AND GUIDANCE NOTE





INTRODUCTION

Public sector bodies (such as local authorities, central government departments, NHS trusts, schools and other educational establishments which are majority public funded) must comply with public procurement rules when they enter into contracts for supplies, works or services. The overall rules post Brexit for England, Wales and Northern Ireland are currently set out in the Public Contracts Regulations 2015; in Scotland, the Public Contracts (Scotland) Regulations 2015.

The rules mean that to discharge their transparency obligations, public sector bodies (contracting authorities) must advertise on the UK Government's "Find a Tender Service" (FTS) when they want to contract with a provider for works, goods or services and the value of that contract is above a specified value. There are strict procedures with which contracting authorities must comply when choosing a provider.

However, the rules do allow for a contracting authority to go through a procurement process to choose one or more providers to provide supplies, works or services on a framework. In other words, the procurement process is not to choose a provider for a specific project: It is to choose providers with the required levels of experience, quality and financial standards and who provide the best value (in terms of how they meet the specifications that will be required for projects under the framework and price).

When the contracting authority needs a provider for a specific project of a type covered by the framework, it can choose a provider on that framework for the project without having to carry out a full procurement process. It can call off the works/services required under the Framework Agreement.

The rules also provide that a contracting authority can act as a central purchasing body by entering into Framework Agreements which can be used by other contracting authorities.

Scape has procured and entered into a number of Framework Agreements. Contracting authorities are able, in principle, to use Scape's Framework Agreements to call off works/services from the framework providers.

Each Framework Agreement (which is entered into by Scape and the framework provider) sets out the rules for operating the relevant framework, as between Scape and the framework provider.

The framework provider enters into an individual project agreement with each contracting authority which wants to engage that provider to carry out works/services on a specific project. There is a "model" format of the delivery agreement set out in each Framework Agreement.



WHAT IS AN ACCESS AGREEMENT?

An Access Agreement is entered into by Scape and each contracting authority wanting to use a Scape framework. The Agreement sets out the rules which govern how the authority may use the framework and details the responsibilities undertaken by Scape and the authority.

WHAT DOES THE ACCESS AGREEMENT INVOLVE?

In summary, the Access Agreement sets out:

- The procedure the client must use if it wants to call off services under a Framework Agreement;
- What information Scape will provide to the client:
- The reporting information the client must provide to Scape if it calls off services under a Framework Agreement;
- How the Scape fee charged to the framework provider works;
- Warranties from each party:
- Limits on each party's liability;
- Confidentiality obligations;
- The term of the Access Agreement and how it can be terminated by either party;
- Various standard provisions (e.g. the governing law of the agreement, the way in



WHY DO YOU NEED TO SIGN AN ACCESS AGREEMENT?

Once signed, the Access Agreement enables access to any of Scape's frameworks and you will receive detailed information about the frameworks and how to use them. The Access Agreement only needs to be signed once on behalf of an organisation and it carries no cost.

There is no commitment or obligation to use Scape's Frameworks once an Access Agreement has been signed. Signing an Access Agreement does not prohibit you from procuring a contract through any other route.

WHAT HAPPENS NEXT?

A representative from Scape, or the delivery partner (framework provider) you have selected, will contact you to discuss your requirements. They will provide you with information regarding the framework and processes, Project Request Form, Project Order Form and Delivery Agreement, together with supporting information about the NEC contracts, which are incorporated into Delivery Agreements.





FREQUENTLY ASKED QUESTIONS

WHO DELIVERS SCAPE FRAMEWORKS?

Frameworks are available in all areas of England, Scotland, Wales and Northern Ireland. They are all delivered by our delivery partner(s) who are experts in their field and have been awarded their Framework Agreement following a competitive tender. Our delivery partner(s) form strong regional teams to focus on local delivery from within the community.

Learn more about our frameworks: www.scape.co.uk/for-the-public-sector

WHO DO WE WORK FOR?

Frameworks are available to every kind of public body. If you are a local authority, school, academy, college, university, blue light service, NHS organisation, armed force or substantially funded by the public purse, you can benefit with Scape.

WHY USE SCAPE?

For over a decade, we have developed and managed highly successful frameworks. By bringing together the strongest delivery teams, Scape achieves measurable time, cost, quality and community benefits on every project. We have shaped an environment of collaboration and innovation, directly supporting our clients' need to achieve the highest possible standards.

Mark Robinson Chief executive

Scape and Scape Scotland

Tel: 0115 958 3200

Email: enquiries@scape.co.uk

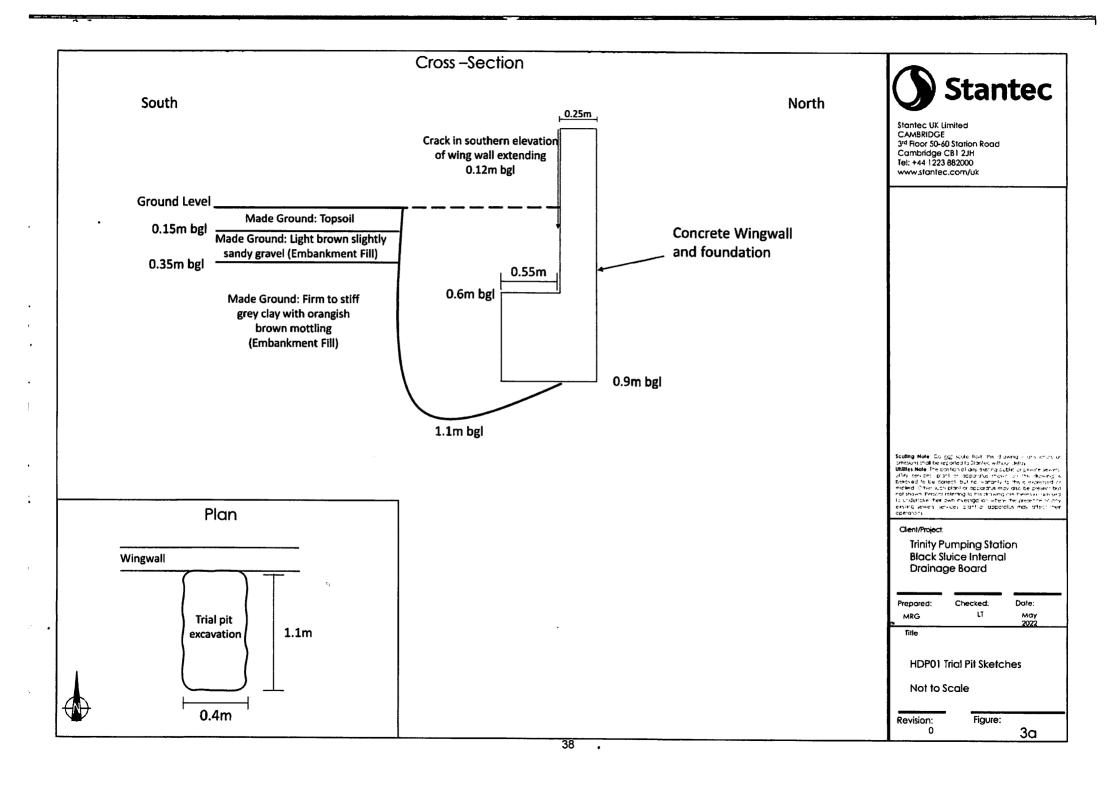
Web: www.scape.co.uk

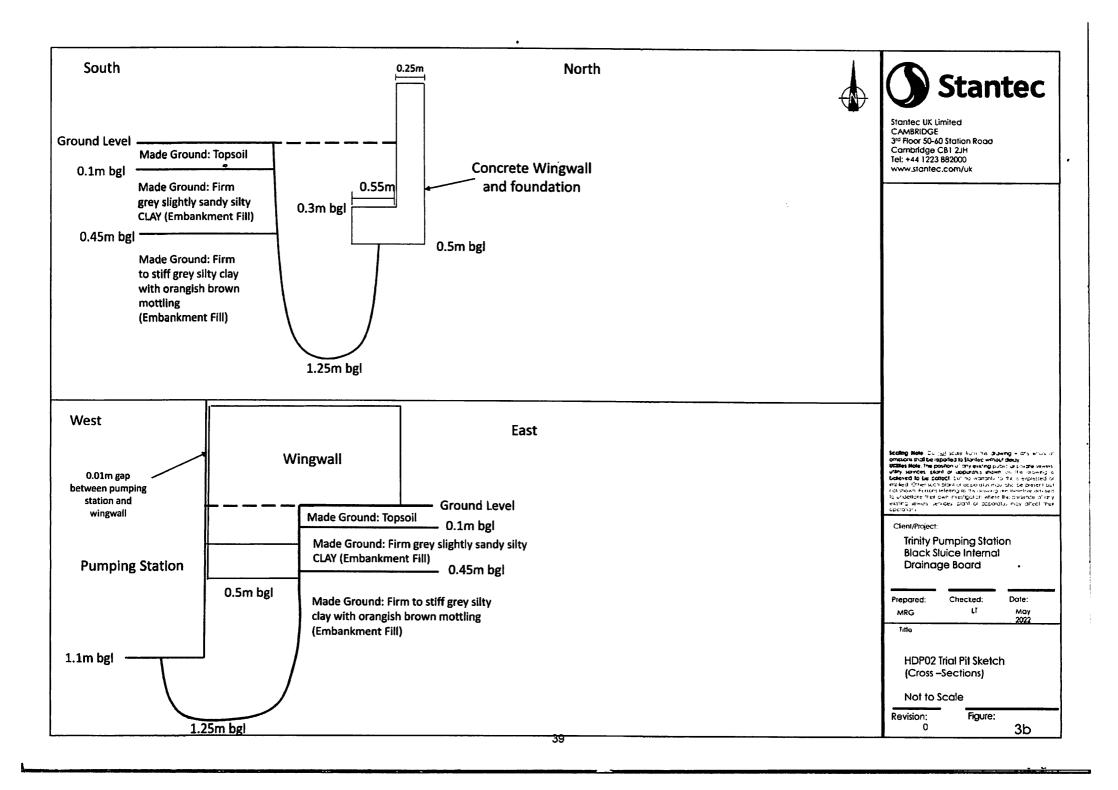
Nottingham: 2nd Floor, East West Building, Tollhouse Hill, Nottingham, NG1 5AT

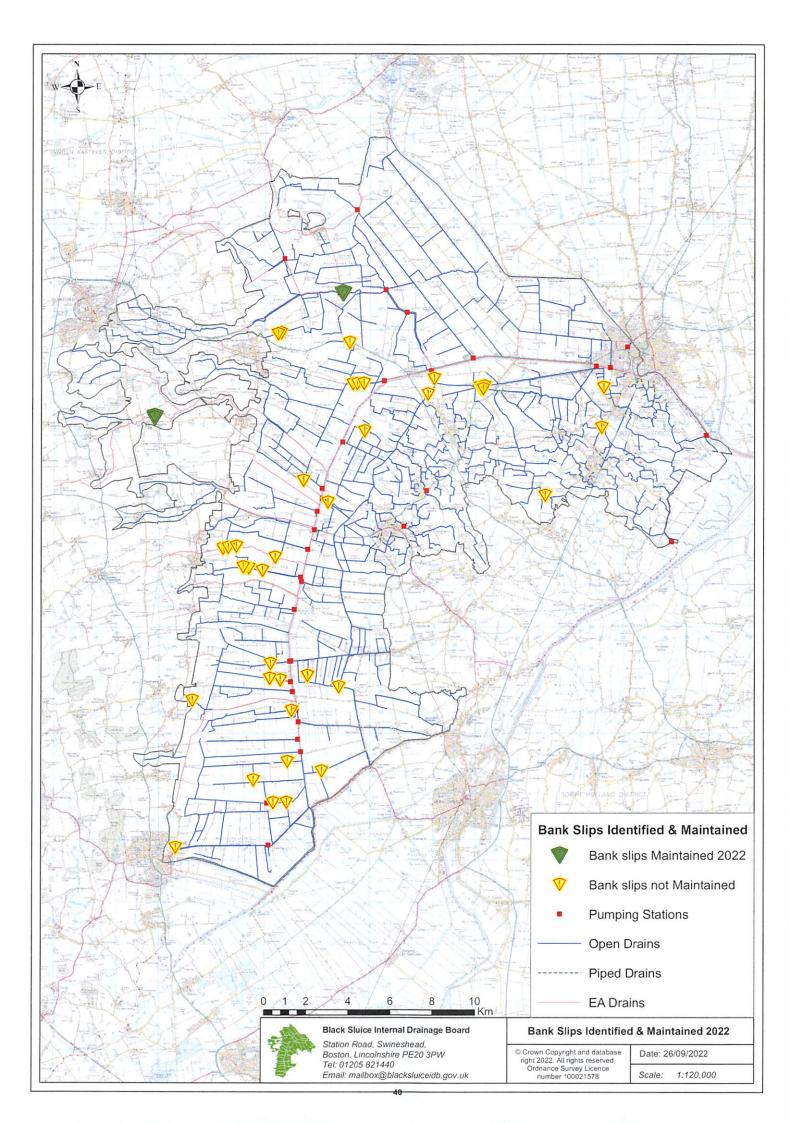
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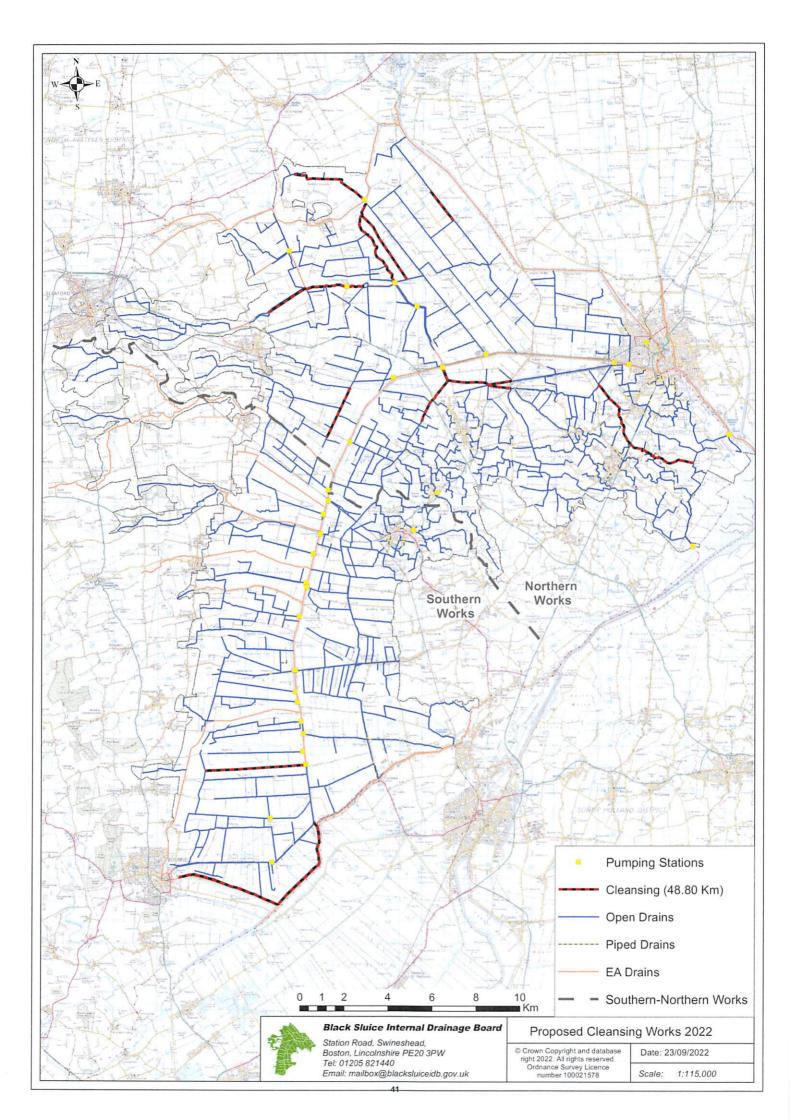
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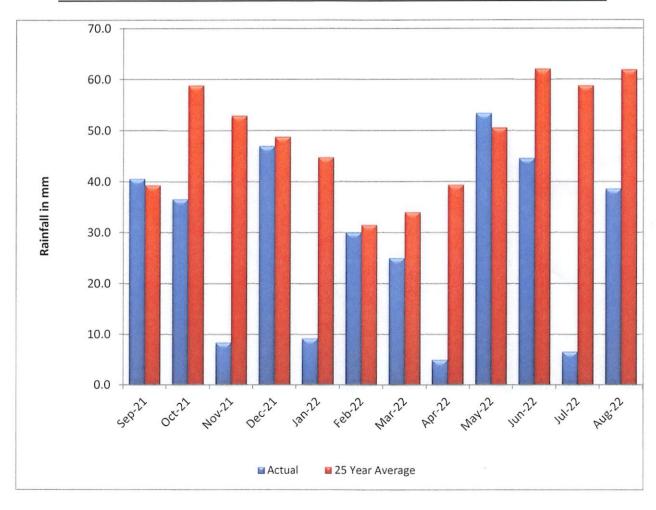




BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Black Hole Drove Pumping Station

	F	Actual / Averens		
MONTH	Actual	25 Year Average	Actual / Average	
	mm	mm	%	
Sep-21	40.6	39.3	103.31%	
Oct-21	36.6	58.9	62.14%	
Nov-21	8.4	52.9	15.88%	
Dec-21	47.0	48.8	96.31%	
Jan-22	9.2	44.8	20.54%	
Feb-22	30.0	31.5	95.24%	
Mar-22	25.0	34.0	73.53%	
Apr-22	5.0	39.4	12.69%	
May-22	53.4	50.6	105.53%	
Jun-22	44.6	62.1	71.82%	
Jul-22	6.6	58.8	11.22%	
Aug-22	38.6	61.9	62.36%	

Totals	345.0	583.0	59.18%
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BLACK SLUICE INTERNAL DRAINAGE BOARD Rainfall at Swineshead Depot

	F	A-41 / A		
MONTH	Actual	25 Year Average	Actual / Average	
	mm	mm	%	
Sep-21	47.6	41.9	113.60%	
Oct-21	46.4	64.9	71.49%	
Nov-21	15.6	53.4	29.21%	
Dec-21	50.2	51.5	97.48%	
Jan-22	12.4	47.4	26.16%	
Feb-22	49.2	34.2	143.86%	
Mar-22	30.0	34.6	86.71%	
Apr-22	7.4	39.0	18.97%	
May-22	52.6	52.1	100.96%	
Jun-22	41.0	61.4	66.78%	
Jul-22	20.8	64.8	32.10%	
Aug-22	44.2	69.9	63.23%	
Totals	417.4	615.1	67.86%	

