

# RECORD OF MEETING

JBA Project Code 2011s5031  
 Contract Thorne, Crowle and Goole Moors WLMP Implementation  
 Client Doncaster East Internal Drainage Board  
 Day, Date and Time 21/01/2017  
 Meeting Steering Group Meeting - 007  
 Venue JBA Doncaster



Attending	Paul Duncan	Natural England	PD (NE)
	Tim Kohler	Natural England	TK (NE)
	David Hargreaves	Natural England	DH (NE)
	David Hoskins	Independent Consultant & Former EA Project Manager	DH
	Morgan Wray	Environment Agency	MW (EA)
	Karen Carter	Environment Agency	KC (EA)
	Matt Cox	North Lincolnshire Wildlife Trust	DB (NLWT)
	To be confirmed	Collective Representative of IDB	()
	Martin Oldknow	Doncaster East IDB	MO (DEIDB)
	Sue Wilkinson	Doncaster East IDB	SW (DEIDB)
	Craig Benson	Finance Officer IDB	CB (IDB)
	David MacFarlane	JBA Consulting	DM (JBA)
	Darren Whitaker	JBA Consulting	DW (JBA)
	Chris Wright & Balaji Angamuthu	JBA Consulting	CW & BA (JBA)
	<i>Notes/Minutes to be taken by JBA</i>		

Item	Action
<p><b>1 Apologies</b>                      Morgan Wray, Karen Carter – EA; Sue Wilkinson – Doncaster East IDB, Darren Whitaker and David MacFarlane – JBA Consulting. Craig Benson attended the meeting only for the sections between 6 and 9.</p>	
<p><b>2 Introductions</b>                      No introductions were required.</p>	
<p><b>3 Minutes of Last Meeting</b></p> <p><b>3.1 Matters Arising</b>                      4.2 &amp; 5.4 - H&amp;S File working draft in progress. BA/DM</p> <p>5.3 – Pumping Station Civils &amp; M&amp;E works may be complete by early May. In that case, TK confirmed that there is no need to amend HRA.</p> <p>TK has spoken to Mr P Birtwistle regarding proposed dams on land close to his and he has no complaints. TK will email this confirmation to Mr Birtwistle with a copy to Paul Jones at the IDB. TK</p> <p>8.1- TK &amp; DW have agreed what needs to be done for HRAs. DW has issued draft HRAs to TK. BA said the EIA report needs to be finalised and signed off by NE. TK is to respond. BA will upload the finalised EIA report to the web site. TK/BA</p>	
<p><b>4 Health and safety and Environmental issues</b></p> <p><b>4.1 Issues to report</b>                      No accidents reported.</p>	



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<p>CDM – BA concerned that the pumping station contractor were not reporting design changes.</p> <p>PD asked what action was required. BA said design change had to be checked by appropriate person with CDM advisor copied in and JBA’s Structural Engineer has carried out design check based on the information provided so far. PD asked what was the risk to the project and if any help was required from NE. BA said he will need support from client – he has set a deadline for documents requested from NMC at end of February for design data &amp; concrete test results. However, BA emphasised that we can only follow the procedures as per the contract.</p> <p>A local resident from Crowle interrupting the contractor’s work – is he a H&amp;S risk? Agreed that if confronted, the contractor should report it to the police.</p> <p><b>4.2 Neighbour relations</b></p> <p>Complaint received from one resident in Dole Road, Crowle about the muddy condition of the road. This has been addressed as the Contractor was maintaining the road. Discussion on email correspondence with resident. PB proposed and all agreed that emails need to be carefully monitored, particularly emails to residents need to be checked before sending. BA agreed to make improvements as these emails have been sent without his knowledge.</p> <p>BA mentioned that the complaints have been forwarded to the IDB administration team as soon as we have received them. MO asked if a complaints register is kept. Agreed it should be kept and actions recorded.</p> <p>Main access road – improvements done just after the Pumping Station work has been started, but now deteriorated. Owner expects long term maintenance by NE. BA told Mrs Julie Cawkwell that the condition will be improved over existing condition but has made no commitment to maintenance after works complete. All agreed but no significant improvement to the original state of the road be done.</p> <p>MC complained that he had not been informed when the contractor was to start on site. Some works not on NLWT land – land owner did not want the works. NLWT had to manage the owners. Agreed that notice of starting on site should be sent to land owners and NLWT. Also, improvement to access track was not notified to NLWT and owner.</p> <p>BA has emailed the proposed works in Crowle Moor to NLWT, North Lincs Council and NE in last July and November. Also, the works including the access track improvements and programme were presented and discussed at the previous steering group meeting. The communication gap was mainly due to the decision to have the landowner consultation at the last minute. Moreover, the contractor has brought forward the programme suddenly as they have completed the other two contracts within the Moors earlier than anticipated, and the access track improvement was required to avoid any delays and resulting compensation event. MC agreed that communications have improved after the mobilisation of the contractor. BA had identified break in communication chain as things have changed at the last minute.</p> <p>PD/MO requested a communications strategy – better communications with owners and NLWT required. BA had already established communication protocol within the project team members but because of these issues here afterwards BA will lead all the activities as the delegated member of the project team could not communicate effectively.</p> <p><b>4.3 HRA and EIA</b> See Section 3.1</p>		<p></p> <p></p> <p></p> <p>BA</p> <p>BA</p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>BA</p>
<p><b>5 Programme of works</b></p>		



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5.1	<p><b>Works completed to date</b>                      Last year's works of plastic sheet piled weirs and peat bunding (Lot 1, 2 and 3 contracts) completed before Christmas.</p>	
5.2	<p><b>Works in progress</b>                      Peat bunding works (Lot A contract) in Crowle will be completed by the end of February. Lot A reduction in scope due to landowner not wanting works on his land.</p> <p>The following remedial works and any extra works on the peat bunding and plastic sheet piled weir contracts to be completed by the end of March.</p> <p>Lot 3 - remedial work of resetting some pipes, Lot B - additional weir to be installed to stage WL drop as Weir 8A failed due to poorer ground conditions and high water differential, and Lot A- potential requirement for security gate on Crowle. Lot A – Access track improved on Crowle to ensure access could be maintained for the contract. Condition so good that NLWT suggested a security gate to stop public vehicular access. MC and BA are liaising with North Lincs Council to find out whether the trust can legally install the gate.</p> <p>MC asked if there is a snagging list for Crowle. BA said not yet but asked NE and MC to let him know of any problems that need to be resolved with the works. BA reported a scrub clearance contractor from Life+ Project removed a peat bunding, TK aware and will arrange reinstatement.</p> <p>Number of delays in PS contractor's programme including change in pump sump design (10 days), delayed delivery of piles (3 weeks), M&amp;E delay (2 weeks). Contractor mitigating by accelerating works e.g. closing access road to lay pipes across in one excavation instead of half and half.</p>	BA/MC
5.3	<p><b>Programme of future works</b></p>	
5.4	<p><b>Handover of completed works</b>                      BA &amp; DM will compile one Health &amp; Safety File for the whole scheme.</p> <p>A meeting in April with Natural England is to be arranged to discuss the Health and Safety File and the project handover meeting.</p>	BA/DM BA
6	<p><b>Financial</b></p> <p><b>6.1 Spend profile</b>                      CB presented a full financial report; attached to these minutes as an addendum. CB mentioned that his current spend profile estimate account for the worst-case scenario of variations on the contracts. The IDB Finance Committee satisfied in budget based on the audit carried out.</p> <p>The balance at the end of the scheme to be spent on works but will need EA approval.</p> <p><b>6.2 Variations</b>                      BA presented variations (attached to these minutes as an addendum) sheet showing the list of variations, balance expected, actual amount spent, and estimates of remaining to spend for each contract.</p> <p><b>6.3 Invoices</b>                      Contractors invoices included in the meeting papers.</p>	
7	<p><b>Works information</b></p> <p><b>7.1 Additional works</b></p>	

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<p>See section 6.1</p> <p><b>7.2 Original scope of works</b></p> <p>DH asked for commissioning date and the current version of programme says it will be in the week 24/4 to 02/5. BA to confirm this to IDB &amp; steering group.</p> <p>DH (EA) raised access for pump delivery – will lorry be able to gain access. BA mentioned that the contractor has already confirmed that the lorry access is possible however he will check this.</p> <p><b>7.3 Construction of a fixed weir across Western Boundary Drain at Green Belt</b></p> <p>This will be part of the additional works that will be carried after the completion of the original scheme providing sufficient funds are available.</p> <p><b>7.4 Condition of access tracks</b></p> <p>See Section 4.2</p>		<p>BA</p> <p>BA</p>
<p><b>8 Any other business</b></p> <p>BA is leaving JBA Consulting on 08<sup>th</sup> May 2017 and as per the current programmed works will be completed by then.</p>		
<p><b>9 Date of next meeting</b></p> <p>The next steering group meeting is on Tuesday 02 May 2017 at 10 AM at the Natural England Office in Hatfield. Site visit to follow this meeting.</p> <p>The meeting closed at 12:30PM.</p>		



2011s5031-Thorne Moors Water Level Management Plan (WLMP)

Programme for 2015-16 and 2016-17

S.No.	Activities	Apr-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	
<b>Financial Year: 2015-16</b>																										
<b>1</b>	<b>Steel Pile Structures - Angle Drain and Blue Bridge</b>																									
1.1	Tendering	Completed	Completed																							
1.2	Construction & hand over					Completed	Completed	Completed	Completed				Completed													
<b>2</b>	<b>Peat bunding - Phase I, 22 weirs and 22 pipe culverts</b>																									
2.1	Design & tender documents	Completed	Completed	Completed	Completed																					
2.2	Tendering					Completed	Completed																			
2.3	Construction including scrub clearance & hand over							Completed	Completed									Completed	Completed							
<b>3</b>	<b>Pumping Station</b>																									
3.1	Design & tender documents	Completed	Completed	Completed	Completed																					
3.2	Tendering						Completed	Completed					Completed													
<b>Financial Year: 2016-17</b>																										
3.3	Construction & hand over													Completed		Completed										
<b>4</b>	<b>9 Weirs - Phase II</b>																									
4.1	Design & tender documents								Completed	Completed	Completed	Completed														
4.2	Tendering												Completed	Completed												
4.3	Construction & hand over															Completed										
<b>5</b>	<b>Peat bunding - Phase II</b>																									
5.1	Design & tender documents									Completed	Completed	Completed														
5.2	Tendering												Completed	Completed												
5.3	Construction & hand over												Completed	Completed		Completed										
Final Health and Safety File for works completed to date																										

**Key**

To begin	Yellow
Ongoing	Blue
Completed	Green

Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016												2017								
						July	August	September	October	November	December	January	February	March	April	May	June									
<b>Total</b>						168																		18-Jul-16 A	24-Mar-17	0
<b>Key Dates</b>						154																		18-Jul-16 A	06-Mar-17	14
<b>Award</b>						72																		18-Jul-16 A	31-Oct-16	3
11	Contract Award - Lot 1	0		18-Jul-16 A		◆ Contract Award - Lot 1																				
21	Start on site - Lot 1	0	31-Oct-16*		3	◆ Start on site - Lot 1																				
<b>Completion</b>						0																		06-Mar-17	06-Mar-17	0
<b>Lot 1</b>						0																		06-Mar-17	06-Mar-17	0
6552	Completion - Lot 1	0		06-Mar-17*	0	◆ Completion - Lot 1																				
<b>Early Warnings &amp; Compensation Event Notifications</b>						58																		09-Sep-16 A	11-Oct-16 A	
EW L1-002_10	EW002 Issued - Change to wind turbine - MOVED TO LOT 2 - M&E	0		06-Sep-16 A		◆ EW002 Issued - Change to wind turbine - MOVED TO LOT 2 - M&E																				
EW L1-003_10	EW003 Issued - Change to access track and line of fence and additional thickness to outfall structure	0		06-Sep-16 A		◆ EW003 Issued - Change to access track and line of fence and additional thickness to outfall structure																				
EW L1-004_10	EW004 Issued - Change to compressive strength of concrete	0		06-Sep-16 A		◆ EW004 Issued - Change to compressive strength of concrete																				
EW L1-005_10	EW005 Issued - Change to pile load requirement	0		06-Sep-16 A		◆ EW005 Issued - Change to pile load requirement																				
EW L1-006_10	EW006 Issued - Postponement of site mobilisation and works	0		06-Sep-16 A		◆ EW006 Issued - Postponement of site mobilisation and works																				
EW L1-001_10	EW001 Issued - Issue of Contract after tender validity expiry date	0		06-Sep-16 A		◆ EW001 Issued - Issue of Contract after tender validity expiry date																				
EW L1-007_10	EW007 Issued - Continue postponement of site mobilisation and works	0		06-Sep-16 A		◆ EW007 Issued - Continue postponement of site mobilisation and works																				
EW L1-008_10	EWN 008 Issued - Late issue of drawings	0		09-Sep-16 A		◆ EWN 008 Issued - Late issue of drawings																				
CE L1-001_10	CE001 Issued - Issue of Contract after Tender Validity Expiry Date	0		15-Sep-16 A		◆ CE001 Issued - Issue of Contract after Tender Validity Expiry Date																				
CE L1-004_10	CE004 Issued - Change to compressive strength of concrete	0		15-Sep-16 A		◆ CE004 Issued - Change to compressive strength of concrete																				
CE L1-006_10	CE006 Issued - Postponement of Site Mobilisation and Works	0		15-Sep-16 A		◆ CE006 Issued - Postponement of Site Mobilisation and Works																				
CE L1-007_10	CE007 Issued - Continued Postponement of Site Mobilisation and Works	0		19-Sep-16 A		◆ CE007 Issued - Continued Postponement of Site Mobilisation and Works																				
EW L1-009_10	EW009 Issued - Confirmation of re-use/suitability of excavated material	0		30-Sep-16 A		◆ EW009 Issued - Confirmation of re-use/suitability of excavated material																				
EW L1-010_10	EW010 Issued - Drawing received to delete Manhole	0		06-Oct-16 A		◆ EW010 Issued - Drawing received to delete Manhole																				
EW L1-008_20	EWN008 - Date for Pile drawings issued	0		11-Oct-16 A		◆ EWN008 - Date for Pile drawings issued																				
<b>Early Warnings &amp; Compensation Event Delays</b>						91																		30-Aug-16 A	06-Mar-17	0
PD1000	Commence on Site Date as shown on NMC Programme submitted on 03/08/2016	0		30-Aug-16 A		PD1000 ◆ Commence on Site Date as shown on NMC Programme submitted on 03/08/2016																				
PD1030	EWN008 Delay Period from date Drawings were to be Issued as per JBA email 24/08/16	17	30-Aug-16 A	11-Oct-16 A		PD1030 [Orange Bar]																				
PD1010	EWN006 Initial Postponement period from 30/08/16	6	31-Aug-16 A	05-Sep-16 A		PD1010 [Orange Bar]																				
PD1020	EWN007 Continued Postponement from 06/09/16 until JBA Reinstated	9	06-Sep-16 A	19-Sep-16 A		PD1020 [Orange Bar]																				
PD1050	EWN008 NMC Design & Mobilisation period (3 weeks as shown on NMC Programme submitted on 03/08/16)	15	12-Oct-16 A	31-Oct-16	0	PD1050 [Orange Bar] EWN008 NMC Design & Mobilisation period (3 weeks as shown on NMC Programme submitted on 03/08/16)																				
PD1060	EWN007 Mobilisation Period to Start on site	8	20-Oct-16	31-Oct-16*	0	[Orange Bar] EWN007 Mobilisation Period to Start on site																				
PD1070	EWN001 - Winter Working increased Programme Time allowance (to be distributed to tasks in future programmes)	9	22-Feb-17	06-Mar-17	0	[Orange Bar] EWN001 - Winter Working; increased Programme Time allowance																				
<b>Temporary Works Consent</b>						68																		20-Jul-16 A	19-Sep-16 A	
3922	Drainage Board/EA notice working near or above water. Dyke side only	50	20-Jul-16 A	19-Sep-16 A		[Blue Bar]																				
6652	Drainage board Approval	0		19-Sep-16 A		◆ Drainage board Approval																				
<b>Advance Documentation</b>						62																		20-Jul-16 A	17-Oct-16	104
3941	Client Issue Contract Specifications	15	20-Jul-16 A	26-Jul-16 A		[Blue Bar]																				
4011	NMC Produce Detailed Construction Programme	10	20-Jul-16 A	02-Aug-16 A		[Blue Bar]																				
3961	NMC Issue Construction Programme For Approval	0		02-Aug-16 A		◆ NMC Issue Construction Programme For Approval																				
3971	NMC Issue Project Management Plan	0		03-Aug-16 A		◆ NMC Issue Project Management Plan																				
3991	NMC Produce Project Management Plan (Incorporating H&S Plan)	10	03-Aug-16 A	03-Aug-16 A		[Blue Bar]																				
4051	Environmental Plan (EP)	0		03-Aug-16 A		◆ Environmental Plan (EP)																				
4001	Client Approval of Construction Programme	10	03-Aug-16 A	17-Oct-16	12	[Blue Bar] Client Approval of Construction Programme																				
3981	Client Approval of Health & Safety Plan (H&SP)	10	03-Aug-16 A	05-Aug-16 A		[Blue Bar]																				

	Remaining Level of Effort		Actual Work		Delay Bar		Milestone		WBS Summary
	Actual Level of Effort		Critical Remaining Work						
	Remaining Work		Delay Bar						

Date	Revision	Checked	Approved
18-Oct-16	First Revised Cl31 prog for Issue	GW	BF

# Thorne Moors Pumping Station Lot 1 programme First Revised Clause 31 Programme



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2016												2017					
						July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June						
4041	Waste Management Plan (WMP)	0		03-Aug-16 A		◆ Waste Management Plan (WMP)																	
3951	Client Issue Remaining Contract Drawings (now part of EWN008)	15	08-Aug-16 A	17-Oct-16	0	Client Issue Remaining Contract Drawings (now part of EWN008)																	
6692	Client Issue Headwall Contract Drawing	15	08-Aug-16 A	08-Aug-16 A																			
3931	Assumed Date for Client Issue F10 Notification of Works	0		17-Oct-16*	9	◆ Assumed Date for Client Issue F10 Notification of Works																	
<b>Welfare Procurement</b>		<b>18</b>	<b>20-Jul-16 A</b>	<b>15-Aug-16 A</b>																			
4881	Produce Enquiry	2	20-Jul-16 A	21-Jul-16 A																			
4901	Quotation Period	5	22-Jul-16 A	28-Jul-16 A		■																	
4911	Review & Place Order	1	29-Jul-16 A	29-Jul-16 A																			
4921	Mobilisation Period	10	01-Aug-16 A	12-Aug-16 A		■																	
4891	Available for Site	0	15-Aug-16 A			◆ Available for Site																	
<b>Temporary Works Procurement</b>		<b>53</b>	<b>10-Aug-16 A</b>	<b>24-Oct-16</b>	<b>6</b>																		
<b>Headwall</b>		<b>53</b>	<b>10-Aug-16 A</b>	<b>24-Oct-16</b>	<b>4</b>																		
6702	Produce Enquiry	1	10-Aug-16 A	10-Aug-16 A																			
6712	Quotation Period	5	11-Aug-16 A	17-Aug-16 A		■																	
6722	Place Order	1	24-Oct-16	24-Oct-16	4	Place Order																	
<b>Pump Station</b>		<b>21</b>	<b>26-Sep-16 A</b>	<b>24-Oct-16</b>	<b>6</b>																		
5422	Produce Enquiry	1	26-Sep-16 A	26-Sep-16 A																			
5412	Quotation Period	5	27-Sep-16 A	03-Oct-16 A		■																	
5432	Place Order	1	24-Oct-16	24-Oct-16	6	Place Order																	
<b>Design of Temporary Works</b>		<b>11</b>	<b>25-Oct-16</b>	<b>08-Nov-16</b>	<b>6</b>																		
<b>Headwall</b>		<b>11</b>	<b>25-Oct-16</b>	<b>08-Nov-16</b>	<b>4</b>																		
5482	NMC S/C Produce Drawings	4	25-Oct-16	28-Oct-16	4	■ NMC S/C Produce Drawings																	
5502	Review Drawings/Documents	1	31-Oct-16	31-Oct-16	4	Review Drawings/Documents																	
5442	Approval of Documents	1	01-Nov-16	01-Nov-16	4	Approval of Documents																	
5492	Manufacturing/Mobilisation Period	5	02-Nov-16	08-Nov-16	4	■ Manufacturing/Mobilisation Period																	
5402	Available for site	0	08-Nov-16	08-Nov-16	4	◆ Available for site																	
<b>Pump Station</b>		<b>11</b>	<b>25-Oct-16</b>	<b>08-Nov-16</b>	<b>6</b>																		
6732	Produce Drawings	4	25-Oct-16	28-Oct-16	6	■ Produce Drawings																	
6742	Review Drawings/Documents	1	31-Oct-16	31-Oct-16	6	Review Drawings/Documents																	
6762	Approval of Documents	1	01-Nov-16	01-Nov-16	6	Approval of Documents																	
6772	Manufacturing/Mobilisation Period	5	02-Nov-16	08-Nov-16	6	■ Manufacturing/Mobilisation Period																	
6782	Available for site	0	08-Nov-16	08-Nov-16	6	◆ Available for site																	
<b>Design of Tilting Weir &amp; Actuator</b>		<b>54</b>	<b>22-Aug-16 A</b>	<b>13-Dec-16</b>	<b>54</b>																		
101	Prepare Specifications	5	22-Aug-16 A	26-Aug-16 A		■																	
111	Produce Documents	5	30-Aug-16 A	06-Sep-16 A		■																	
121	Produce Calculations	5	05-Sep-16 A	09-Sep-16 A		■																	
131	Produce Drawings	10	12-Sep-16 A	15-Sep-16 A		■																	
141	Review Drawings/Documents	0		16-Sep-16 A		◆ Review Drawings/Documents																	
151	Submit Tilting Weir specification to PM for approval	0		17-Oct-16*	29	◆ Submit Tilting Weir specification to PM for approval																	
161	Approval of Tilting Weir submission by PM	2	17-Oct-16	18-Oct-16	29	Approval of Tilting Weir submission by PM																	
201	Manufacturing Period of tilting weir	40	19-Oct-16	13-Dec-16	29	■ Manufacturing Period of tilting weir																	
202	Manufacturing Period of actuator	40	19-Oct-16	13-Dec-16	54	■ Manufacturing Period of actuator																	
211	Delivery to Site weir	0		13-Dec-16	29	◆ Delivery to Site weir																	
5232	Delivery to Site actuator	0		13-Dec-16	54	◆ Delivery to Site actuator																	

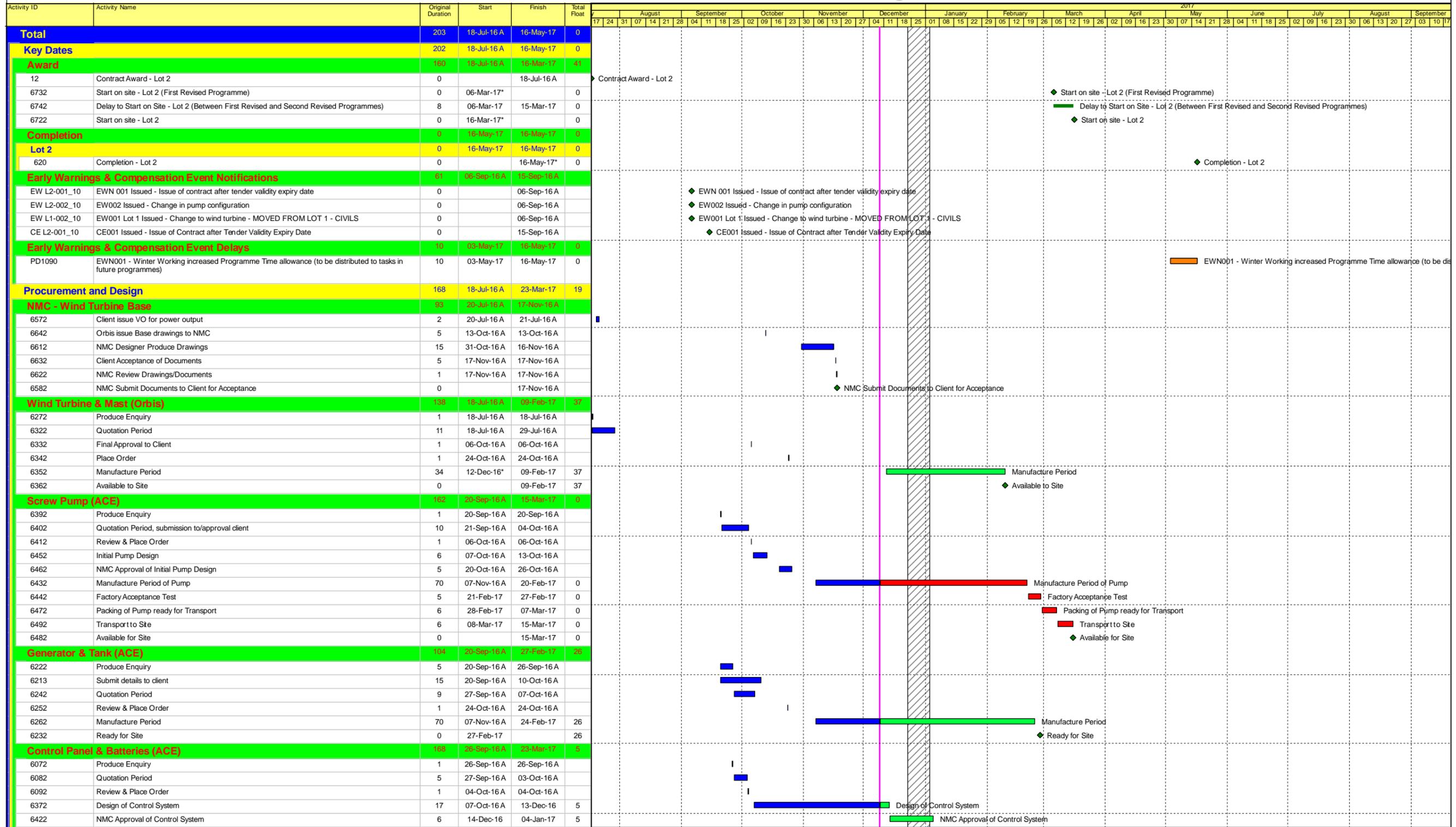
■ Remaining Level of Effort	■ Actual Work	■ Delay Bar
■ Actual Level of Effort	■ Critical Remaining Work	◆ Milestone
■ Remaining Work	■ Delay Bar	▽ WBS Summary

Date	Revision	Checked	Approved
18-Oct-16	First Revised CI31 prog for Issue	GW	BF





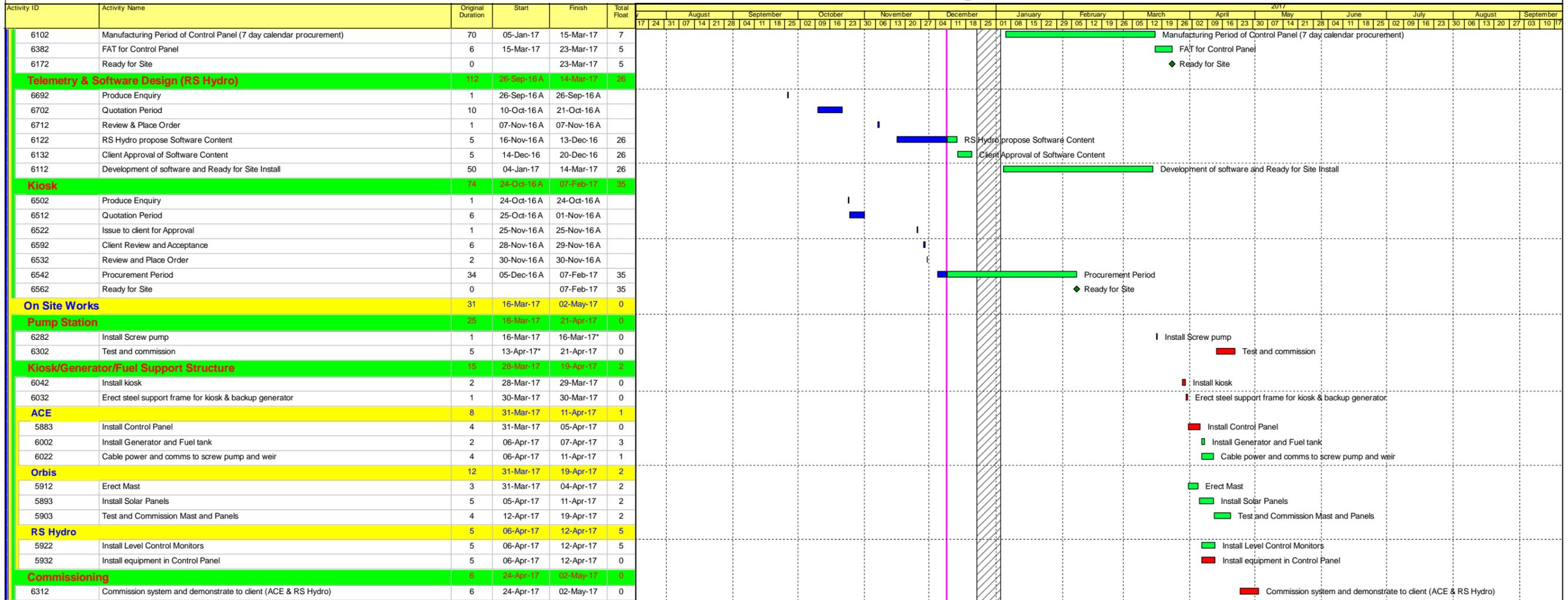




█ Remaining Level of Effort    █ Remaining Work    ▾ WBS Summary  
█ Actual Level of Effort    ◆ Milestone    █ CE/EW  
█ Actual Work    █ Critical Remaining Work

Date	Revision	Checked	Approved
09-Jan-17	Second Revised Cl31 prog for Issue - all activities	GW	BF

# Thorne Moors Pumping Station Lot 2 programme Second Revised Clause 31 Programme



Remaining Level of Effort	Remaining Work	WBS Summary
Actual Level of Effort	Milestone	CE/EW
Actual Work	Critical Remaining Work	

Date	Revision	Checked	Approved
09-Jan-17	Second Revised Cl31 prog for Issue - all activities	GW	BF





















Thorne, Crowle & Goole Moors SSSI WLMP Spend Profile	Estimated Final Costs	Estimated Final Contributions	Estimated Final Net Expenditure	EA Grant Approved	Expenditure to date to 08-Feb-17	Contributions To date to 08-Feb-17	Net Expenditure to date to 08-Feb-17	EA Grant balance 08-Feb-17	Actual 2016/17				Estimated Expenditure 2017/18				Estimated EA Grant Final Balance
									Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
									apr to jun	Jul to sep	Oct to Dec	Jan to Mar					
Environmental Statement	£103,252	£13,252	£90,000	£90,000	£100,432	£13,252	£87,180	£2,820	-	£7,462	£0	3,000	-	-	-	-	£0
Design and Appraisal	£477,864	£7,223	£470,640	£514,480	£468,884	£7,223	£461,660	£52,820	£1,027	£32,028	£14,468	£7,517	-	-	4,000	-	£43,840
Construction Works	£2,242,175	£43,328	£2,198,847	£2,329,610	£1,564,491	£43,328	£1,521,163	£808,447	£169,130	£68,635	£204,570	£638,413	347,376	-	-	-	£130,763
Contingencies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTALS</b>	<b>£2,823,291</b>	<b>£63,803</b>	<b>£2,759,488</b>	<b>£2,934,090</b>	<b>£2,133,806</b>	<b>£63,803</b>	<b>£2,070,003</b>	<b>£864,087</b>	<b>£170,157</b>	<b>£108,125</b>	<b>£219,038</b>	<b>£648,930</b>	<b>£347,376</b>	<b>£0</b>	<b>£4,000</b>	<b>£0</b>	<b>£174,602</b>
									Year Total				Year Total				

**NOTES**

The current project forecast indicates that the final total expenditure on the scheme is estimated to be £2,823,291

The project has generated contributions from various sources to a current value of £63,803

This contribution figure is expected to increase with the addition of any further bank interest gained and the likely contribution of € 12,000 from Natural England with respect to the construction of the pumping station.

The estimated net final expenditure figure is £2,759,488 and is less than the EA approved figure of £2,934,090

In summary it is envisaged that the scheme will be under budget by £174,602

The project has to date incurred expenditure of £2,133,806 and income of £63,803

This results in a net expenditure of £2,070,003 The maximum amount of EA grant to spend is £864,087

However the Environment Agency are looking for efficiency savings on this scheme.

It has been confirmed by the EA that savings can also include reinvesting unspent monies on the project to deliver more.

Natural England and the WLMP Steering Group have identified a number of additional works for this purpose

The spend profile over the next six months shows how this remaining grant money is to be spent.

In summary, it is estimated that the total expenditure for 2016/17 is £1,146,250

Which confirms the underspend of £174,602 (which can be used on identified and agreed additional works)

The monies left will be used for works on the ground and Project Management, Design and site supervision costs.

It is envisaged that the additional works would be undertaken during 2017/18 and after the original scope of works are complete.



# FIELD ARCHAEOLOGY SPECIALISTS LTD

Unit 8 Fulford Business Centre  
 35 Hospital Fields Road  
 York YO10 4DZ

TELEPHONE (01904) 652000  
 FACSIMILE (01904) 749014  
 fas@fieldarchaeologyspecialists.co.uk

## INVOICE

<b>DONCASTER EAST DRAINAGE BOARD</b> Epsom House Chase Park Redhouse Interchange Doncaster DN6 7FE	INVOICE	fas_2016/1679
	INVOICE DATE	9 February 2017
	ORDER NUMBER	
	REFERENCE	Lot B2016/17

DESCRIPTION	NET AMOUNT £	VAT %
<b>THORNE MOORS</b> <b>ARCHAEOLOGICAL WATCHING BRIEF</b>  Ponybridge Wood - New contract Monitoring of bunding 01/11/16, 06/12/16, 08/12/16, 13/12/16, 06/01/17, 05/01/17  Project Officer:           x6 days at £255.00 per day:	1,530.00	20.00

<b>BANK DETAILS</b>	<b>TOTAL EXCLUDING VAT</b>	£	1,530.00
BARCLAYS BANK PLC           ACCOUNT No: 10367036	VAT	£	306.00
PO BOX 24                        SORT CODE: 20 99 56	<b>TOTAL INCLUDING VAT</b>	£	<b>1,836.00</b>
1-3 PARLIAMENT STREET			
YORK YO1 8XD			

<b>PAYMENT TERMS</b>	within 30 days
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 35 Hospital Fields Road  
 York YO10 4DZ

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 FACSIMILE (01904) 749014  
 fas@fieldarchaeologyspecialists.co.uk

## INVOICE

<b>DONCASTER EAST DRAINAGE BOARD</b> Epsom House Chase Park Redhouse Interchange Doncaster DN6 7FE	INVOICE	fas_2016/1680
	INVOICE DATE	9 February 2017
	ORDER NUMBER	
	REFERENCE	

DESCRIPTION	NET AMOUNT £	VAT %
<b>THORNE MOORS</b> <b>ARCHAEOLOGICAL WATCHING BRIEF</b>  Thorne Moors Pumping Station 04/10/16, 19/12/16, 03/01/17, 09/01/17  Project Officer:      x4 days at £255.00 per day:	1,020.00	20.00

<b>BANK DETAILS</b>	<b>TOTAL EXCLUDING VAT</b>	£	1,020.00
BARCLAYS BANK PLC      ACCOUNT No: 10367036 PO BOX 24                    SORT CODE: 20 99 56 1-3 PARLIAMENT STREET YORK YO1 8XD	<b>VAT</b>	£	204.00
	<b>TOTAL INCLUDING VAT</b>	£	<b>1,224.00</b>

<b>PAYMENT TERMS</b>	within 30 days
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Unit 8 Fulford Business Centre  
35 Hospital Fields Road  
York YO10 4DZ

TELEPHONE (01904) 652000  
FACSIMILE (01904) 749014  
fas@fieldarchaeologyspecialists.co.uk

## INVOICE

**DONCASTER EAST DRAINAGE BOARD**

Epsom House  
Chase Park  
Redhouse Interchange  
Doncaster  
DN6 7FE

INVOICE

fas\_2016/1681

INVOICE DATE

9 February 2017

ORDER NUMBER

REFERENCE

LIFE13NAT/UK00451

DESCRIPTION	NET AMOUNT £	VAT %
<b>THORNE MOORS</b> ARCHAEOLOGICAL WATCHING BRIEF  Crowle Moor - continuation of contract. Monitoring of bunding 11/01/17  Project Officer:           x1 day at £255.00 per day:	255.00	20.00

### BANK DETAILS

BARCLAYS BANK PLC           ACCOUNT No: 10367036  
PO BOX 24                        SORT CODE: 20 99 56  
1-3 PARLIAMENT STREET  
YORK YO1 8XD

TOTAL EXCLUDING VAT

£           255.00

VAT

£           51.00

**TOTAL INCLUDING VAT**

**£           306.00**

PAYMENT TERMS

within 30 days



# FIELD ARCHAEOLOGY SPECIALISTS LTD

Unit 8 Fulford Business Centre  
35 Hospital Fields Road  
York YO10 4DZ

TELEPHONE (01904) 652000  
FACSIMILE (01904) 749014  
fas@fieldarchaeologyspecialists.co.uk

## INVOICE

DONCASTER EAST DRAINAGE BOARD Epsom House Chase Park Redhouse Interchange Doncaster DN6 7FE	INVOICE	fas_2016/1682
	INVOICE DATE	9 February 2017
	ORDER NUMBER	
	REFERENCE	LIFE13NAT/UK00451

DESCRIPTION	NET AMOUNT £	VAT %
<b>THORNE MOORS</b> ARCHAEOLOGICAL WATCHING BRIEF  Thorne Moors - western edge - continuation of contract. Monitoring of bunding 02/11/16, 12/12/16  Project Officer:           x2 days at £255.00 per day:	510.00	20.00

<b>BANK DETAILS</b>	<b>TOTAL EXCLUDING VAT</b>	£	510.00
BARCLAYS BANK PLC           ACCOUNT No: 10367036	VAT	£	102.00
PO BOX 24                        SORT CODE: 20 99 56	<b>TOTAL INCLUDING VAT</b>	£	<b>612.00</b>
1-3 PARLIAMENT STREET			
YORK YO1 8XD			

<b>PAYMENT TERMS</b>	within 30 days
----------------------	----------------

# INVOICE



**To:** Doncaster East Internal Drainage Board  
 Epsom House  
 Chase Park  
 Redhouse Interchange  
 DONCASTER  
 DN6 7FE

**FAO:** Ian Benn

South Barn  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE  
 United Kingdom

**Client:** Doncaster East Internal Drainage Board  
**Contract:** Thorne, Crowle and Goole Moors WLMP EIA  
**Client Order No:** EA Grant Letter dated 21 February 2011  
**Client Contact:** Ian Benn  
**JBA Project Code:** 2011s4941

T +44 (0) 1756 799 919  
 E info@jbaconsulting.com

www.jbaconsulting.com

**Invoice Number:** 2017/0605  
**Tax Date:** 8 February 2017  
**Stage:** Interim invoice No. 12

**Registered Office**  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE

United Kingdom

**Jeremy Benn Associates Ltd**  
 Registered in England 3246693

Item	Description	Net Amount	VAT Rate	VAT
1	<i>For professional services rendered and expenses incurred in connection with preparation of an EIA and HRA for the period from 01 December 2016 to 31 January 2017.</i> <b>Ecology for HRA</b> <b>Staff Costs (4 hours)</b>	£137.46	20.00%	£27.49
2	<b>Project Management</b> <b>Staff Costs (0.75 hours)</b>	£41.80	20.00%	£8.36

*R. S. A. M.*

<b>Net Total:</b>	<b>£179.26</b>
<b>VAT:</b>	<b>£35.85</b>
<b>Total now due:</b>	<b>£215.11</b>

VAT Registration No. GB 665 3009 41

Payment to 'Jeremy Benn Associates Ltd' at our Skipton office address, or BACS to Sort Code 20-78-42, A/C No. 10869538  
 SWIFT: BARC GB 22; IBAN: GB28 BARC 2078 4210 8695 38

Payment Terms are strictly 28 days net from date of invoice.

Finance contact: [finance@jbaconsulting.com](mailto:finance@jbaconsulting.com)



# INVOICE



**To:** Doncaster East Internal Drainage Board  
 Epsom House  
 Chase Park  
 Redhouse Interchange  
 DONCASTER  
 DN6 7FE

**FAO:** Ian Benn

South Barn  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE  
 United Kingdom

**Client:** Doncaster East Internal Drainage Board  
**Contract:** Thorne, Crowle and Goole Moors WLMP Implementation  
**Client Order No:** Meeting dated 5th April 2011  
**Client Contact:** Ian Benn  
**JBA Project Code:** 2011s5031

T +44 (0) 1756 799 919  
 E info@jbaconsulting.com

www.jbaconsulting.com

**Invoice Number:** 2017/0604  
**Tax Date:** 8 February 2017  
**Stage:** Interim invoice No. 57

**Registered Office**  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE

United Kingdom

**Jeremy Benn Associates Ltd**  
 Registered in England 3246693

Item	Description	Net Amount	VAT Rate	VAT
1	<i>For professional services rendered and expenses incurred in connection with the implementation of the WLMP for the period from the 01 January 2017 to 31 January 2017</i> <b>Design and Appraisal</b> Staff Costs (30 hours) Expenses Travel	£1,414.60 £0.00 £0.00	20.00% 20.00% 20.00%	£282.92 £0.00 £0.00
2	<b>Construction Works</b> Staff Costs (211.57 hours) Expenses Travel	£8,843.11 £0.00 £410.20	20.00% 20.00% 20.00%	£1,768.62 £0.00 £82.04
3	<b>CDM Regulations</b> CDM Advisor - Sub-contract	£450.00	20.00%	£90.00

*R. S. A. M.*

**Net Total:** £11,117.91  
**VAT:** £2,223.58  
**Total now due:** £13,341.49

VAT Registration No. GB 665 3009 41

Payment to 'Jeremy Benn Associates Ltd' at our Skipton office address, or BACS to Sort Code 20-78-42, A/C No. 10869538  
 SWIFT: BARC GB 22; IBAN: GB28 BARC 2078 4210 8695 38

Payment Terms are strictly 28 days net from date of invoice.

Finance contact: [finance@jbaconsulting.com](mailto:finance@jbaconsulting.com)



# INVOICE



**To:** Doncaster East Internal Drainage Board  
 Epsom House  
 Chase Park  
 Redhouse Interchange  
 DONCASTER  
 DN6 7FE

**FAO:** Ian Benn

South Barn  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE  
 United Kingdom

**Client:** Doncaster East Internal Drainage Board  
**Contract:** Thorne, Crowle and Goole Moors WLMP Implementation  
**Client Order No:** Meeting dated 6th April 2011  
**Client Contact:** Ian Benn  
**JBA Project Code:** 2011s5031

**T +44 (0) 1756 799 919**  
**E info@jbaconsulting.com**

www.jbaconsulting.com

**Invoice Number:** 2016/3803  
**Tax Date:** 6 December 2016  
**Stage:** Interim invoice No. 55

Registered Office  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE

United Kingdom

Jeremy Benn Associates Ltd  
 Registered in England 3246693

Item	Description	Net Amount	VAT Rate	VAT
1	<i>For professional services rendered and expenses incurred in connection with the implementation of the WLMP for the period from the 01 November 2016 to 30 November 2016</i> Design and Appraisal Staff Costs (170 hours) Expenses Travel	£6,642.85 £0.00 £67.20	20.00% 20.00% 20.00%	£1,328.57 £0.00 £13.44
2	Construction Works Staff Costs (177.5 hours) Expenses Travel	£6,050.58 £0.00 £67.40	20.00% 20.00% 20.00%	£1,210.12 £0.00 £13.48
3	CDM Regulations CDM Advisor - Sub-contract (2015)	£4,250.00	20.00%	£850.00

*R. S. A. M.*

Net Total: £17,078.03  
 VAT: £3,415.61  
**Total now due: £20,493.64**

VAT Registration No. GB 665 3009 41

Payment to 'Jeremy Benn Associates Ltd' at our Skipton office address, or BACS to Sort Code 20-78-42, A/C No. 10869538  
 SWIFT: BARC GB 22; IBAN: GB28 BARC 2078 4210 8695 38

Payment Terms are strictly 28 days net from date of invoice.

Finance contact: [finance@jbaconsulting.com](mailto:finance@jbaconsulting.com)



# INVOICE



**To:** Doncaster East Internal Drainage Board  
 Epsom House  
 Chase Park  
 Redhouse Interchange  
 DONCASTER  
 DN6 7FE

**FAO:** Ian Benn

South Barn  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE  
 United Kingdom

**Client:** Doncaster East Internal Drainage Board  
**Contract:** Thorne, Crowle and Goole Moors WLMP Implementation  
**Client Order No:** Meeting dated 6th April 2011  
**Client Contact:** Ian Benn  
**JBA Project Code:** 2011s5031

T +44 (0) 1756 799 919  
 E info@jbaconsulting.com

www.jbaconsulting.com

**Invoice Number:** 2017/0075  
**Tax Date:** 4 January 2017  
**Stage:** Interim invoice No. 56

**Registered Office**  
 Broughton Hall  
 Skipton  
 North Yorkshire  
 BD23 3AE  
 United Kingdom

**Jeremy Benn Associates Ltd**  
 Registered in England 3246693

Item	Description	Net Amount	VAT Rate	VAT
1	<i>For professional services rendered and expenses incurred in connection with the implementation of the WLMP for the period from the 01 December 2016 to 31 December 2016</i>			
	<i>Design and Appraisal</i>			
	<i>Staff Costs (26.75 hours)</i>	£1,120.51	20.00%	£224.10
	<i>Expenses</i>	£0.00	20.00%	£0.00
	<i>Travel</i>	£0.00	20.00%	£0.00
2	<i>Construction Works</i>			
	<i>Staff Costs (114.2 hours)</i>	£4,744.82	20.00%	£948.96
	<i>Expenses (Bamboo cains for marking out)</i>	£13.00	20.00%	£2.60
	<i>Travel</i>	£339.50	20.00%	£67.90
3	<i>CDM Regulations</i>			
	<i>CDM Advisor - Sub-contract</i>	£500.00	20.00%	£100.00

*R. S. A. M.*

**Net Total:** £6,717.83  
**VAT:** £1,343.57  
**Total now due:** £8,061.40

VAT Registration No. GB 665 3009 41

Payment to 'Jeremy Benn Associates Ltd' at our Skipton office address, or BACS to Sort Code 20-78-42, A/C No. 10869538

SWIFT: BARC GB 22; IBAN: GB28 BARC 2078 4210 8695 38

Payment Terms are strictly 28 days net from date of invoice.

Finance contact: [finance@jbaconsulting.com](mailto:finance@jbaconsulting.com)



# Invoice



Doncaster East IDB  
Epsom House  
Chase Park  
Redhouse Interchange  
Doncaster  
South Yorkshire  
DN6 7FE

Invoice Date: 25/ 01/ 2017

Invoice Number: 21817

To: **Life + Project Action C5 Life + Project Reference: LIFE13NAT/UK00451**  
Lot 1 Crowle Moors  
Certificate Ref: CrowleLot1-003 – 19<sup>th</sup> January 2017

Work outlined and approved by B Angamuthu as per above certificate	£8,351	05
<b>V.A.T. @ 20%</b>	£1670	21
<b>Total Amount Due</b>	<b>£10,021</b>	<b>26</b>

**Please make Cheques payable to: Northmoor Plant Ltd**  
Payment due within 30 Days

Brincliffe, North Moor Road, Walkeringham, Doncaster DN10 4LW

T: 01427 890088 F: 01427 891567 E: northmoorplant@gmail.com W: www.northmoorplant.com

Northmoor Plant Limited VAT No: 852 9155 09 Company Reg: 05340759



# Invoice



Doncaster East IDB  
Epsom House  
Chase Park  
Redhouse Interchange  
Doncaster  
South Yorkshire  
DN6 7FE

Invoice Date: 25/ 01/ 2017

Invoice Number: 21917

To: **Life + Project Action C5 Life + Project Reference: LIFE13NAT/UK00451**  
**Lot 3 North of Limestone Road**  
**Certificate Ref:NorthLSLot3-003**

Work as outlined and approved by B Angamuthu as per above certificate

£7,488 97

**V.A.T. @ 20%**

£1,497 79

**Total Amount Due**

£8,986 75

**Please make Cheques payable to: Northmoor Plant Ltd**  
Payment due within 30 Days

Brincliffe, North Moor Road, Walkeringham, Doncaster DN10 4LW

T: 01427 890088 F: 01427 891567 E: northmoorplant@gmail.com W: www.northmoorplant.com

Northmoor Plant Limited VAT No: 852 9155 09 Company Reg: 05340759

# G Fillingham & Sons

Dobella Farm  
Dobella Lane  
Rawcliffe  
Nr Goole  
East Yorkshire  
DN14 8SQ  
Mobile 07976 564994  
V.A.T Reg No 347 6603 40

**Invoice to: Doncaster East IDB**

Epsom House  
Chase Park  
Redhouse Interchange  
Doncaster  
South Yorkshire  
DN6 7FE  
05.02.2017

Invoice Number : 20170002

Description	Qty.	Price Each	Amount
A190.4 Complying with CDM Regulations, with providing all Health and Safety File Information, including as-built drawings	1	£1,800.00	£1,800.00
A190.4 Complying with CDM Regulations on site, including welfare units	1	£16,560.00	£16,560.00
A190.6 Attendance upon the Engineer's staff	1	£350.00	£350.00
A273.1 Allow for maintaining all access roads and verges in a good condition throughout the works and for leaving good on completion of the works outside the site boundary	1	£1,500.00	£1,500.00
A273.2 Allow for maintaining all access roads and verges in a good condition through out the works and for leaving good on completion of the works inside of site boundary	1	£3,000.00	£3,000.00
A273.4 Provide a rate, to be used at the client's discretion & direction, to make the access track accessible during the works felled log and chip layer upto a depth of 400mm	1	£1,080.00	£1,080.00
A290 allow for the maintenance of a travel log listing all contractor journeys through out the site to be submitted upon request t the client.	1	£250.00	£250.00
A290.2 Allow for temporary safety fencing around site compound	1	£400.00	£400.00
A290.3 Compliance with requirements of Environmental Monitoring and Action Plan including pollution control measures	1	£800.00	£800.00
A290.4 Carry out pre-condition photographic survey and produce report s site and compound area; including turning area and mible compound areas	1	£600.00	£600.00
A290.6 Allow for temporary bog matting around mobile work sites to allow the safe passage of motor vehicles	1	£1,000.00	£1,000.00
A300 Method Related Charges	1	£12,000.00	£12,000.00
D290.03 Tree and Scrub clearance to install the weir at MD002	1	£20.00	£20.00
D290.04 Tree and Scrub clearance to install the weir at MD003	1	£20.00	£20.00
D290.05 Tree and Scrub clearance to install the weir at MD004	1	£20.00	£20.00
D290.08 Tree and Scrub clearance to install the weir at 8A	1	£20.00	£20.00
D290.09 Tree and Scrub clearance to install the weir at BP001	1	£20.00	£20.00
E900.01 Cross section MD002 allow for the scraping of material from the drain and bank approximately 300mm to either side of the centreline of structure to allow the installation os PSP weirs. All material to remain with in the drain.	1	£200.00	£200.00
E900.02 Cross section MD003 allow for the scraping of material from the drain and bank approximately 300mm to either side of the centreline of structure to allow the installation os PSP weirs. All material to remain with in the drain.	1	£100.00	£100.00
E900.03 Cross section MD004 allow for the scraping of material from the drain and bank approximately 300mm to either side of the centreline of structure to allow the installation os PSP weirs. All material to remain with in the drain.	1	£100.00	£100.00
E900.06 Cross section 8A allow for the scraping of material from the drain and bank approximately 300mm to either side of the centreline of structure to allow the installation os PSP weirs. All material to remain with in the drain.	1	£150.00	£150.00
E900.07 Cross section BP001 allow for the scraping of material from the drain and bank approximately 300mm to either side of the centreline of structure to allow the installation os PSP weirs. All material to remain with in the drain.	1	£150.00	£150.00
E900.08 Cross section of PBIR001	1	£150.00	£150.00
E900.09 Cross section of PBIR002	1	£150.00	£150.00
P900.01 Pile length 3.5m at cross section MD002	1	£1,060.00	£1,060.00
P900.02 Pile length 3.5m at cross section MD003	1	£1,190.00	£1,190.00
P900.03 Pile length 3.5m at cross section MD004	1	£1,190.00	£1,190.00
P900.06 Pile length 3.5m at cross section 8A	1	£1,210.00	£1,210.00
P900.07 Pile length 3.5m at cross section BP001	1	£968.00	£968.00
P900.08 Pile length 3.5m at cross section PBIR001	1	£960.00	£960.00
P900.09 Pile length 3.5m at cross section PBIR002	1	£960.00	£960.00
P900.10 Bracing to plastic sheet piles at cross section MD002	1	£2,330.00	£2,330.00
P900.11 Bracing to plastic sheet piles at cross section MD003	1	£2,710.00	£2,710.00
P900.12 Bracing to plastic sheet piles at cross section MD004	1	£2,710.00	£2,710.00
P900.13 Bracing to plastic sheet piles at cross section AT002	1	£1,582.00	£1,582.00
P900.14 Bracing to plastic sheet piles at cross section DWG	1	£1,817.00	£1,817.00
P900.15 Bracing to plastic sheet piles at cross section 8a	1	£2,820.00	£2,820.00
P900.16 Bracing to plastic sheet piles at cross section BP001	1	£1,950.00	£1,950.00
P900.17 Bracing to plastic sheet piles at cross section PBIR001	1	£2,070.00	£2,070.00
P900.18 Bracing to plastic sheet piles at cross section PBIR002	1	£2,070.00	£2,070.00
644m Tree Clearance	1	£2,350.09	£2,350.09
469.93m Bunding	1	£2,547.02	£2,547.02
Bund 13	1	£600.00	£600.00
Emergency track repair	1	£370.00	£370.00
Works previously invoiced	1		£95,075.00
		Sub Total	£169,019.11
		Minus 2.5% retainer	£4,225.48
		Minus amount previously Certified	£90,321.25
		SubTotal	£74,472.38
		Plus VAT @20%	£14,894.48
		<b>TOTAL</b>	<b>£89,366.86</b>

Bank : HSBC Goole  
Sort code : 40-22-13  
Bank Account : 11370146

Thank you, we appreciate your business



To:- Doncaster East IDB  
 Epsom House  
 Chase Park  
 Redhouse Interchange  
 Doncaster  
 DN6 7FE

**Invoice**

**RE: Thorne Moors Pumping Station**

VAT No	INV No	CONT No	TENDER £	ORDER No	JOB No	DATE
648 1915 16	34544-4	34544		LOT 1		05/12/2016
DESCRIPTION						AMOUNT £
Thorne Moors Pumping Station						
Works completed on the above as per certified application ..						137,375.43
<p><b>Please note that we have recently been made aware of an attempt to fraudulently change our bank details. We can confirm that we HAVE NOT changed our banking arrangements and our account number and sort code remain the same.</b></p> <p><b>Should you receive any correspondence in relation to a change of bank details please forward directly to our Finance Director Daniel Taylor at our head office</b></p> <p><b>Bank: Lloyds Bank</b>  <b>Acc name : North Midland Construction plc</b>  <b>Sort Code: 30-96-18</b>  <b>Acc No: 02853661</b></p> <p>Payment due by 26th December 2016</p>						

GROSS AMOUNT	137,375.43
LESS RETENTION @ 5%	6,868.77
SUBTOTAL	130,506.66
ADJUSTMENT FOR RELEASE OF RETENTION	0.00
SUBTOTAL	130,506.66
ADD MATERIALS ON SITE	0.00
SUBTOTAL	130,506.66
LESS PREVIOUSLY CERTIFIED	41,275.70
SUBTOTAL	89,230.96
VAT @ 20%	17,846.19
<b>TOTAL DUE £</b>	<b>107,077.15</b>

**Registered Office:**  
**NM Group**  
 Nunn Close The County Estate  
 Huthwaite Sutton-in-Ashfield Nottinghamshire NG17 2HW  
 Tel: 01623 515008



North Midland Construction PLC  
 Registered No 425188 England

Nomenca Limited  
 Registered No 3575174 England

34544-1

CONFIDENTIAL L1

### CONTRACT CERTIFICATE



**CLIENT** Doncaster East Internal Drainage Board  
**ADDRESS** Epsom House, Chase Park, Redhouse Interchange,  
Doncaster, DN6 7FE

**CONTRACT** Thorne Moors Water Level Management Plan Implementation      **CERTIFICATE No** 4  
**JBA Ref** 2011s5031  
**Contractor** North Midland Construction PLC  
**Address** Nunn Close, The Country Estate, Huthwaite, Nottinghamshire, NG17 2HW

<b>Tender Total</b>	£ 338,658.88
<b>Add/Deduct Variations</b>	

Value of Work Executed up to:	<u>30/11/16</u>	£ 137,375.43
Deduct Retention		£ 6,868.77
Add for materials on site		£ -
Sub-total		£ 130,506.66
Deduct Amount Previously Certified		£41,275.69
Amount Now Due		£ 89,230.97
Add VAT @ 20.0%		£ 17,846.19

**Amount now Certified** **£ 107,077.16**

	Prepared by	Checked by	Approved
Name	D. Macfarlane	R. Harrison	D. Macfarlane
Signed			
Date	02-12-16	02-12-16	02-12-16

Interim/Final

Interim

We hereby certify that the sum of One-Hundred and Seven Thousand, Seventy-Seven Pounds Sixteen Pence is due to the Contractor in accordance with the terms of the Contract.

Payment is due 3 weeks from date of invoice

Signed  for Project Manager

Date 02/12/2016

**NM Group**

Nunn Close, The County Estate, Huthwaite, Sutton-in-Ashfield, Nottinghamshire NG17 2HW

Tel: 01623 515008

www.northmid.co.uk



To:- **Doncaster East IDB**  
**Epsom House**  
**Chase Park**  
**Redhouse Interchange**  
**Doncaster**  
**DN6 7FE**

**Invoice****RE: Thorne Moors Pumping Station**

VAT No	INV No	CONT No	TENDER £	ORDER No	JOB No	DATE
648 1915 16	34544-6	34544		LOT 1		02/02/2017
DESCRIPTION						AMOUNT £
Thorne Moors Pumping Station						
Works completed on the above as per certified application						217,941.35
<p><b>Please note that we have recently been made aware of an attempt to fraudulently change our bank details. We can confirm that we HAVE NOT changed our banking arrangements and our account number and sort code remain the same.</b></p> <p><b>Should you receive any correspondence in relation to a change of bank details please forward directly to our Finance Director Daniel Taylor at our head office</b></p> <p><b>Bank: Lloyds Bank</b>  <b>Acc name : North Midland Construction plc</b>  <b>Sort Code: 30-96-18</b>  <b>Acc No: 02853661</b></p> <p>Payment due by 23 February 2017</p>						

GROSS AMOUNT	217,941.35
LESS RETENTION @ 5%	10,897.07
SUBTOTAL	207,044.28
ADJUSTMENT FOR RELEASE OF RETENTION	0.00
SUBTOTAL	207,044.28
ADD MATERIALS ON SITE	5,073.94
SUBTOTAL	212,118.22
LESS PREVIOUSLY CERTIFIED	167,437.56
SUBTOTAL	44,680.66
VAT @ 20%	8,936.13
<b>TOTAL DUE £</b>	<b>53,616.79</b>

**Registered Office:****NM Group**

Nunn Close The County Estate

Huthwaite Sutton-in-Ashfield Nottinghamshire NG17 2HW

Tel: 01623 515008


**INVESTORS**  
**IN PEOPLE** | Gold

 North Midland Construction PLC  
 Registered No 425188 England

 Nomenca Limited  
 Registered No 3575174 England

**Contractor: M Gould Ltd**

<b>Financial year</b>	<b>Project:</b>	<b>Angle Drain and Bluebridge structure (100% completed)</b>	
<b>2015/16</b>	<b>Date</b>	<b>Event</b>	<b>Amount (£)</b>
	04/03/2016	Wider temporary works at Blue Bridge	600.00
	19/04/2016	Temporary fencing	- 360.00
	19/04/2016	Security Guards	- 8,132.40
	19/04/2016	Site welfare	- 1,260.00
	19/04/2016	Excavation for stone pitching Blue Bridge	166.32
	19/04/2016	Excavate additional soil - Blue Bridge	400.00
	19/04/2016	Backfill - Blue Bridge	200.00
	19/04/2016	Spreading of surplus soil - Blue Bridge	200.00
	19/04/2016	Extra 2m long culvert - Blue Bridge	1,178.76
	19/04/2016	Plug and seal the existing 225mm pipe	150.00
	19/04/2016	Timber post and rail fencing at Blue Bridge	1,050.00
	05/01/2016	Driven area of AU20 piles	- 1,957.41
	05/01/2016	Driven area of AU25 piles	- 3,075.93
	04/03/2016	Splicing	- 4,400.40
	04/03/2016	Install additional AU25 piles - Blue Bridge	1,398.15
	19/04/2016	Load and transport surplus sheet piles	600.00
	11/02/2016	Continuous vertical weld	42.12
	11/02/2016	Burn off top piles - Angle Drain	1,087.50
	11/02/2016	Transport & dispose burnt off piles	1,278.00
	04/03/2016	Extra bituminous paint	334.74
	04/03/2016	Clean extra exposed steel sheet piles	312.69
	19/04/2016	Stone pitching - blue bridge	2,030.00
	19/04/2016	Extra waling beam	1,407.18
	06/03/2016	Improve access track between NE shed & Angle Drain	- 600.00
	04/04/2016	Repair access track - Blue Bridge	2,289.00
	06/03/2016	Improve access track between NE shed & Angle Drain	600.00
	29-Jun-16	Stop log locking mechanism	825.00
	31-Jul-16	Galvanised access platform and gate	3,600.00
		<b>Total cost of variation</b>	<b>- 36.68</b>
		<b>Tendered works value</b>	<b>312,739.64</b>
		<b>10% contingency</b>	<b>31,273.96</b>
		<b>Tender total</b>	<b>344,013.60</b>
		<b>Actual works value</b>	<b>310,944.96</b>
		<b>Savings</b>	<b>33,068.64</b>

<b>Contractor: Northmoor Plant Ltd</b>			
<b>Financial year</b>	<b>Project:</b>	<b>Lot 1 - Crowle Moors (100 % completed)</b>	
<b>2015/16</b>	<b>Date</b>	<b>Event</b>	<b>Amount (£)</b>
	08/04/2016	Scrub clearance	364.80
	08/04/2016	Plastic Sheet Pile Bunding 45.5m	760.65
		Tree stump removal	2,400.00
		<b>Total cost of variation</b>	<b>3,525.45</b>
		<b>Tendered works value</b>	<b>41,609.00</b>
		<b>10% contingency</b>	<b>4,160.90</b>
		<b>Tender total</b>	<b>45,769.90</b>
	19/01/2017	<b>Final value</b>	<b>43,238.08</b>
		<b>Savings</b>	<b>2,531.82</b>

<b>Contractor: G Fillingham &amp; Sons</b>			
<b>Financial year</b>	<b>Project:</b>	<b>Lot 2 - South of Limestone Road (100% completed)</b>	
<b>2015/16</b>	<b>Date</b>	<b>Event</b>	<b>Amount</b>
	07/03/2016	Hire of wide track excavator	3,100.00
	28-Aug-16	Extra bracing	1,288.00
		Hand piling due to access constraint	1,180.00
	18/03/2016	Removal of tree roots and scrub clearance	1,725.00
	15/11/2016	Additional bracing & additional piles	523.66
		<b>Total cost of variation</b>	<b>7,816.66</b>
		<b>Tendered works value</b>	<b>57,845.00</b>
		<b>10% contingency</b>	<b>5,784.50</b>
		<b>Tender total</b>	<b>63,629.50</b>
	10/0216	<b>Final value</b>	<b>65,661.66</b>
		<b>Savings</b>	<b>- 2,032.16</b>

<b>Contractor: Northmoor Plant Ltd</b>			
<b>Financial year</b>	<b>Lot 3</b>	<b>North of Limestone Road (100% completed)</b>	
<b>2015/16</b>	<b>Date</b>	<b>Event</b>	<b>Amount</b>
	14/03/2016	Alternative spec. product - weir bracings	1,316.80
	08/04/2016	Extra timber bracing for PSP Weir 93+94	648.00
	08/04/2016	Scrub clearance	252.00
	08/12/2016	Scrub Clearance	319.20
	16/12/2016	Additional temporary works - Xsn 22	7,894.00
		<b>Total cost of variation</b>	<b>10,430.00</b>
		<b>Tendered works value</b>	<b>108,433.80</b>
		<b>10% contingency</b>	<b>10,843.38</b>
		<b>Tender total</b>	<b>119,277.18</b>
	19/01/2017	<b>Actual value</b>	<b>107,589.70</b>
		<b>Savings</b>	<b>11,687.48</b>
		<b>Remedial works - to fix pipes</b>	

**Total spent to date** 216,489.44  
**Total savings** 12,187.14

Archaeologist

Contractor: FAS Heritage Ltd

Financial year							
2015/16	Project	Amount (£)	% completed	Variation	Total (£)	Actual value	Savings

Lot1	3,570.00	100%	2,805.00	6,375.00	3,825.00	2,550.00
Lot2	765.00	100%		765.00	765.00	-
Lot3	1,785.00	100%	1,530.00	3,315.00	2,295.00	1,020.00

Pumping Stn.	1,785.00	100%		1,785.00	1,275.00	510.00
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Lot A	2,805.00	100%		2,805.00	2,805.00	-
Lot B	10,455.00	100%		10,455.00	1,530.00	8,925.00

**Total** **25,500.00**    **12,495.00**    **13,005.00**

**Contractor: NMC plc**

<b>FY</b>	<b>Pumping Station - Civils (75% completed)</b>		
<b>2016/17</b>	<b>Date</b>	<b>Event</b>	<b>Amount</b>
		Issue of Contract after Tender validity date	5,411.80
		Change to wind turbine	
		Change to access track and line of fence	
		Additional thickness to outfall structure	
	15/09/2016	Change to compressive strength of concrete	
		Change to pile load requirement	
		Change in pump configuration	
		Postponement of site mobilisation and works	5,646.80
		Late Issue of Drawings	
		Excess material on site	
		Removal of Manhole	
		Change to Pile Loads and numbers	
		Change to discharge structure	
		Repairs to access track	3,213.03
		Change in Chamber design - delay in critical path	4,157.47
		Hydrotite- concrete joints	836.87
		<b>Total cost of variation</b>	<b>19,265.97</b>
		<b>Tendered works value</b>	<b>307,871.71</b>
		<b>10% contingency</b>	<b>30,787.17</b>
		<b>Tender total</b>	<b>338,658.88</b>
	02/02/2017	<b>Actual value</b>	<b>217,941.35</b>

**Contractor: NMC plc**

<b>FY</b>	<b>Pumping Station - M&amp;E (35% completed)</b>		
<b>2016/17</b>	<b>Date</b>	<b>Event</b>	<b>Amount</b>
		Issue of Contract after Tender validity date	-
		Change to wind turbine	-
		Change in pump configuration	-
		Additional telemetry items and labour	1,931.88
		<b>Total cost of variation</b>	<b>1,931.88</b>
		<b>Tendered works value</b>	<b>220,208.27</b>
		<b>10% contingency</b>	<b>22,020.83</b>
		<b>Tender total</b>	<b>242,229.10</b>
	02/02/2017	<b>Actual value</b>	<b>83,821.62</b>

**Contractor: Northmoor Plant Ltd**

<b>FY</b>	<b>Project:</b>	<b>Lot A - Crowle Moors (90 % completed)</b>	
<b>2016/17</b>	<b>Date</b>	<b>Event</b>	<b>Amount (£)</b>
	06/01/2017	Reduction in scope due to John Isle's land	- 9,935.76
	17/01/2017	Improved access track	21,344.55
		Site welfare and security	- 20,725.60
		Security gate and concrete blocks	
		<b>Total cost of variation</b>	<b>- 9,316.81</b>
		<b>Tendered works value</b>	<b>134,410.89</b>
		<b>10% contingency</b>	<b>13,441.09</b>
		<b>Tender total</b>	<b>147,851.98</b>
		<b>Actual value</b>	

**Contractor: G Fillingham & Sons**

<b>FY</b>	<b>Project:</b>	<b>Lot B - Ponybridge Wood, Cassons Garden &amp; Weirs (100% completed)</b>	
<b>2016/17</b>	<b>Date</b>	<b>Event</b>	<b>Amount</b>
	31/01/2017	Attendance on Engineers Staff £35p/h x10 visits	£350
		Log and chip road repair 45sq/m	£1,080
		Additional Tree Clearance at bund locations 14, 17, 22, 23, 24 Totaling 643.86 l/m	£2,350.09
		Omission of bill items D290.06 and D290.07	<b>-£40.00</b>
		Additional Bunding missed off BoQ but included on Drawing 469.93 l/m	£2,547.02
		Omission of Bill Items E900.04 and E900.05	<b>-£300.00</b>
		Omission of Bill Items P900.04 and P900.05	<b>-£1,770</b>
		Additional works required at Bund 13	£600.00
		Track repair using methon not in Bill	£370.00
		Reduction in rate (labour) for bill items P900.13 and P900.14 Items to be stored at NE shed	<b>-£586.50</b>
		<b>Total cost of variation</b>	<b>£4,600.61</b>
		<b>Tendered works value</b>	<b>164,343.00</b>
		<b>10% contingency</b>	<b>16,434.30</b>
		<b>Tender total</b>	<b>180,777.30</b>
		<b>Actual value</b>	<b>168,943.61</b>
		<b>Savings</b>	<b>11,833.69</b>
		<b>Remedial works on weirs</b>	

	Design	Construction	CDM - sub-contract	Expenses	Total
19-Sep-16 to 31st Oct 16	3,713.19	8,904.65		457.14	12,617.84
1st Nov to 30th Nov 16	6,642.85	6,050.58		134.60	12,693.43
1st Dec to 31st Dec 16	1,120.51	4,744.82	500.00	352.50	5,865.33
1st Jan to 31st Jan 17	1,414.60	8,843.11	450.00	410.20	10,257.71
<b>Running total</b>					<b>41,434.31</b>
<b>Proposed cost</b>					<b>64,374.39</b>
<b>Balance</b>					<b>22,940.08</b>
1st Feb to 28th Feb					10,000.00
1st Mar to 31st Mar					8,000.00
1st Apr to 30th Apr					8,000.00
1st May to 31st May					8,000.00
<b>Expected final cost</b>					<b>34,000.00</b>
<b>Total available balance</b>					<b>25,235.11</b>
<b>Expected variation</b>				<b>10,000 to</b>	<b>15,000.00</b>

HRA

<b>179.26</b>
<b>2,474.29</b>
<b>2,295.03</b>

**Extras:**

- 1) NMC early warnings and compensation events 1) pile load, 2) Archaeology, 3) concrete pour, 4) Christmas shutdown, 5) Telemetry, 6) Postponement and prelims in all Ces
- 2) Change and improvements in design to mitigate Compensation events & improve safety
- 3) Extension of pumping station construction programme, any delay caused by the contractor to bring £500/day
- 4) Swinefleet Gate Access Road improvement works
- 5) Security gate at Crowle
- 6) GPS instrument fault
- 7) New Weir



Lot 1			NMC's latest estimate	Amount (£)	Fee (12%)	Insurance (0.85%)
CE	Early warning	Project Manager's response				
1	Issue of contract after tender validity expiry date	The client disagrees to pay this CE as the title suggests. However, if this CE includes for an actual increase in programme due to the Christmas shutdown, then the client will pay for the welfare facilities for the period of shutdown on the site. If the winter working has increased the programme by 2 days, then the Client will pay for welfare, labour and plant for that period. The CE title should read " Christmas shutdown & winter working". 15th November was a standdown day for NMC.	11,646.75	5,411.80	575.47	40.76
2	Moved to Lot2	Agreed (20 Dec 16)	0	-	-	-
3	Change to fence line and thickness to concrete structure	Agreed (20 Dec 16)	Measure	Measure		
4	Change to compressive strength of concrete	Agreed (20 Dec 16) NMC to submit revised rate of concrete	Measure	Measure		
5	Change to pile load requirement	Agreed - £0 (20 Dec 16)	0.00	-	-	-
6	Postponement of site mobilisation	Agree to the principle and quotation partially as there is difference between the two version of quotation	5,646.80	5,646.80	600.46	42.53
7	Postponement of site mobilisation	Not applicable. Disagree the principle and quotation.	16,257.10	-	-	-
7A	Postponement of site mobilisation	Not applicable. Disagree the principle and quotation.	28,329.83	-	-	-
8	Late issue of pump sump drawings	Agreed - £0 (20 Dec 16)	0.00	-		
9	Repairs to access track	Agreed (20 Dec 16) but prelims should be corrected/reduced to actual	3,213.03	3,213.03	302.18	21.40
10	Delay path due to change in chamber design	10 days increase in path	14,149.25	4,157.47	442.09	31.31
11	Hydrotite	To be agreed by the client	1,518.42	836.87	88.99	6.30
<b>Total</b>			<b>80,761.18</b>	<b>19,265.97</b>		

Lot 2						
CE	Early warning	Project Manager's response				
1	Issue of contract after tender validity expiry date	This event does not occur as Lot 2 undergoes design and procurement during winter.		-	-	-
2	Change in Pump Configuration to alleviate NMC's risk due to Brexit vote	Agreed. However, it has incurred the same amount of cost to the client to mitigate this risk to NMC.	11,646.75	-	-	-
3	Change in Wind turbine capacity from 0.5kW to 1kW	Agreed in principle.		-	-	-
4	Change in Angle Drain and Blue Bridge Telemetry	For the additional telemetry items and labour	16,144.29	1,931.88	205.43	14.55
<b>Total</b>			<b>27,791.04</b>	<b>1,931.88</b>		

**Total**

**108,552.22 21,197.85**

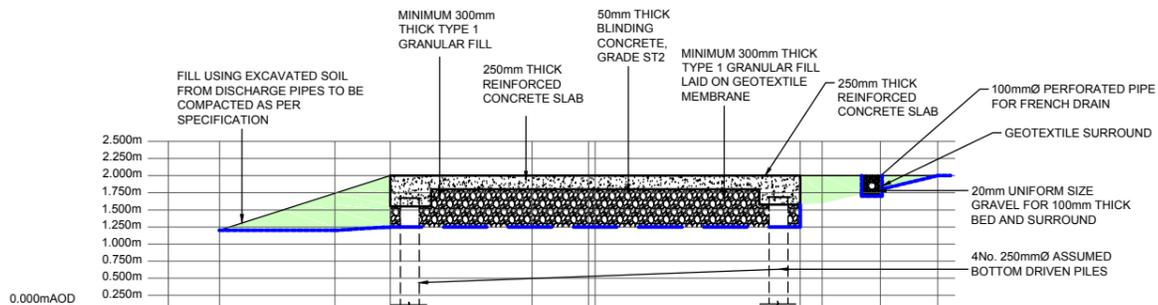
Breakdown

Sub-total	Prelims	Design	Labour	Plant	Materials	Sub-contractor	Preparation	Risk contingency	Insurances
4,795.57	3,290.00	-	1,172.48	-	-	252.00	81.09	-	-
-									
-									
5,003.81	1,286.70	-	2,933.10	702.92	-	-	81.09	-	-
-									
-									
2,518.17	329.00	-	516.14	186.00	1,460.00	-	27.03	-	-
3,684.07	2,350.01	-	-	1,280.00	-	-	54.06	-	-
741.58	54.06	-	275.00	-	385.49	-	27.03	-	-

-									
-									
-									
1,711.90	0	0	0	0	756.9	955	0	0	0

Contract	Works to do
Pumping Station	<p><b>1) Letter to Mrs Julie Cawkwell</b> Request DEIDB and NMC to write a letter about the scheme, pumping station works, programme and vehicle movements. Private access road near the Swinefleet gate will be temporarily improved and maintained by filling the potholes with gravel until the completion of works. Then, the road will be reinstated to the condition that it was found at the beginning of our works.</p> <p><b>2) Email reply to Mr Ross Hewson</b> Private access road near the Swinefleet gate will be temporarily improved by filling the potholes with gravel and will be reinstated to the condition that it was found at the beginning of our works.</p> <p><b>3) Temporary and permanent road improvement works Check</b> Speak to Janet Canning at Natural England whether they can fill the potholes with gravels initially as a part of their current road improvement works inside the Moors.</p> <p>4) Pumping station progress meeting Arrange a meeting with Tim Kohler and NMC to meet on the site next week.</p> <p>5) Supervision and quality control Chase NMC to submit all the required design DRAs and drawings.</p> <p>6) Control cost – by monitoring progress, and by checking valuation.</p> <p>7) Pre-condition survey photos from all contractors</p> <p><b>8) Submit all the design documents to Natural England prior to testing and commissioning on the site so that they can get familiarised themselves about what have been proposed. JBA to contact in advance Natural England and DEIDB to participate in the testing and commissioning of works on the site.</b></p>
LotA	<p>1) Security gates at Crowle, Liaise with Tim Allen at North Lincs Council, Matt Cox at LWT, and DEIDB to confirm that it is legally acceptable to build the gate. Matt Cox's mentioned that North Lincs Council itself may install the gate but to have to get this in writing. Be aware of Mr John Carney's interruption. Obtain quotation and get approval from the client.</p>
Lot B	<p>1) Strengthening of existing weirs along (2 weirs) Limestone Road, (1 weir) Bells Pond and (1 weir) Paul Birtwhistle's land. Strengthening to include adding a waling beam and fill the gap between the beam and the weir with plastic posts and rails. Public safety to be considered and plastic rail fence to be installed. Contact Natural England to display the warnings sign (Deep Water and this is not a designated crossing point).</p> <p>2) Modify and try to retain the existing weir 8A by alleviating the water pressure.</p> <p>3) Additional weir to be added with crest at the minimum of designed level or lowest bank level. Choose a suitable (narrower and shallower section) cross-section for this. This is to be made of steel waling beams and posts both in front and rear. Thicker plastic piles to be used for the weir. Keith to confirm the feasibility of delivering and installing the materials.</p>

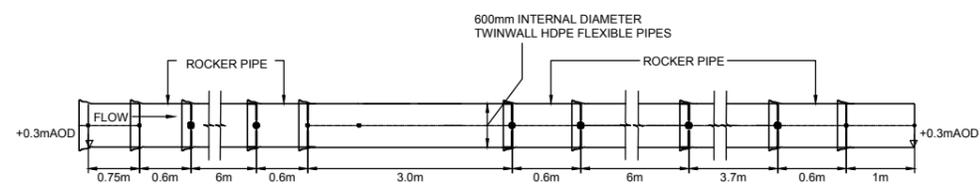
	Obtain quotation and get approval from the client.
Lot 3	<p>1) Fix adverse slope/floating pipes. Contact Northmoor Plant to confirm the location and number of pipes installed. Arrange a meeting with Keith Fillingham to go through the number of pipes that will need adverse slope fixing.</p> <p>The pipes should slope from the floodplain to discharge into the drain.</p> <p>Obtain quotation and get approval from the client.</p>
Miscellaneous	<p>1) Open and maintain complaints register</p> <p>2) Health and Safety File</p> <p>Shapefiles of the completed works to be submitted to Natural England as a part of this file. For each structure – location, photo, construction principle, year of completion, operation, and maintenance, and other CDM requirements to be included.</p> <p>3) Blackwater Dyke Telemetry not defined in the Scope of Lot 2 Pumping Station tender. But, only the site is described in the tender. It is not sure whether NMC have priced for this and will submit as a part of their design. We must wait for their design submission and decide. Since, NMC's compensation event quotations are unrealistically expensive, it was agreed by the group that RS Hydro could be appointed independently to carry out this work.</p> <p>4) Need to pass the details of Western Boundary Drain cross-section survey of the drain and stockpiled soil for the proposed additional works of Green Belt crossing.</p> <p>5) Next steering group meeting on Tuesday 02 May 2017 at natural England office. Site visit to follow this meeting.</p>



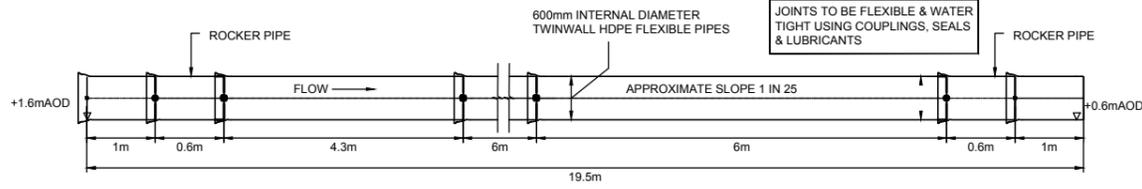
CURRENT GROUND LEVELS	1.200	1.200	1.200	1.245	1.400	1.430	1.580	1.600	1.800	2.000
DESIGN LEVEL	1.200	1.200	1.750	2.000	2.000	2.000	2.000	2.000	2.000	2.000
CHAINAGE	0.000	0.750	2.440	3.150	5.320	6.150	6.250	9.570	10.450	11.260

**Section H-H**  
SCALE 1:50

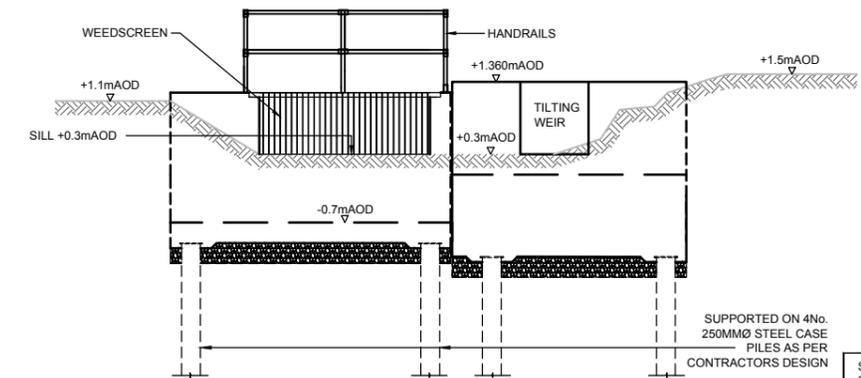
SEE DRAWING No. 2011s5031-155 FOR THE LOCATION OF SECTION H-H



**Gravity Discharge Pipe Layout**  
SCALE 1:50

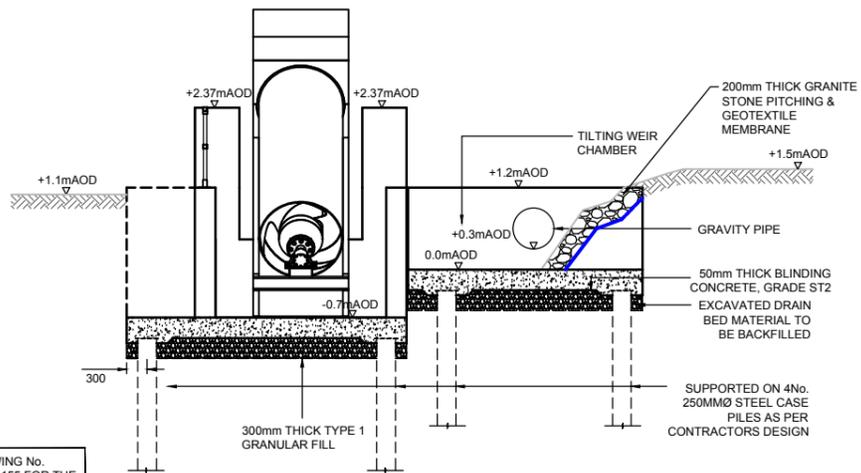


**Pump Discharge Pipe Layout**  
SCALE 1:50

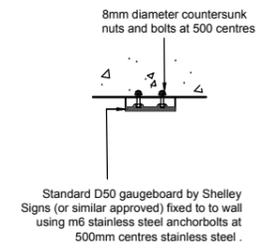


**Section I-I**  
SCALE 1:50

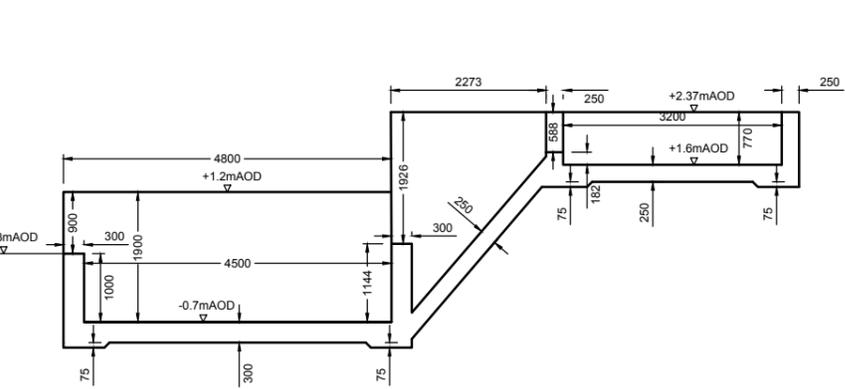
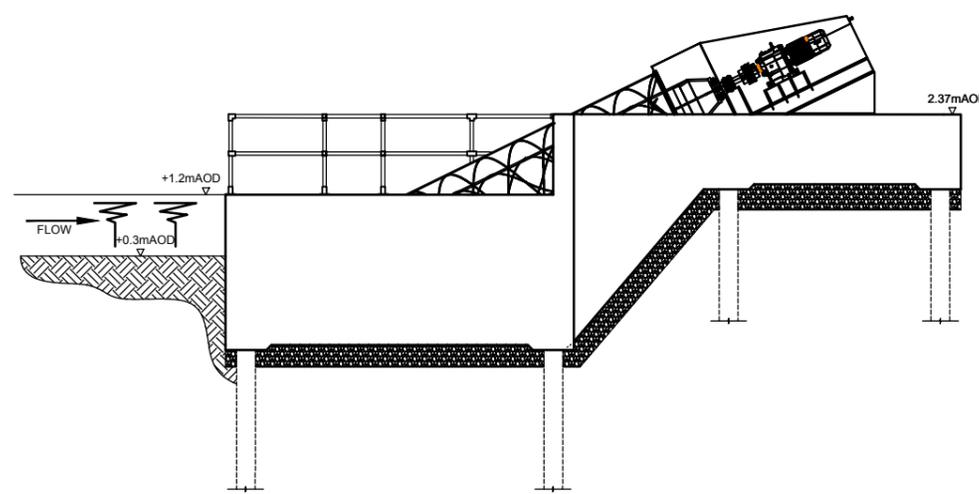
SEE DRAWING No. 2011s5031-155 FOR THE LOCATION OF SECTION I-I, G-G



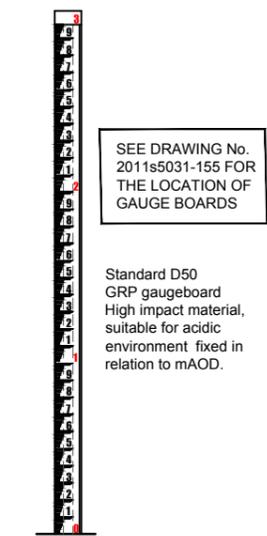
**Section G-G**  
SCALE 1:50



**Gaugeboard Fixing Detail**  
Scale 1:10



**Section J-J**  
SCALE 1:50



**Gaugeboard Detail**  
Scale 1:20

SEE DRAWING No. 2011s5031-155 FOR THE LOCATION OF GAUGE BOARDS

Standard D50 GRP gaugeboard High impact material, suitable for acidic environment fixed in relation to mAOD.

- General Notes**
- All dimensions shown are in millimetres unless otherwise stated and levels in metres to Ordnance Datum.
  - Do not scale from this drawing. All dimensions must be checked/verified on site.
  - Any discrepancies noted on site are to be reported to the Engineer immediately.
  - All works in watercourses will be carried out with care to minimise the risk of pollution adhering to Pollution Prevention Guidelines.
  - Contractor should contact Reedness & Swinefleet Drainage Board for any temporary works in Swinefleet Warring Drain to obtain consent under the Land Drainage Act 1991.
  - The locations of any known services shown on drawing are approximate and for guidance only. The Contractor will confirm the location of any services prior to the commencement of any works.
  - The electronic model of this drawing is not to be used for setting out.
  - Levels shown in blue colour indicate the additional levels taken on the 18.09.2015
  - The water and soil on the site is acidic in nature due to peat. The PH value of the water is in the range of 4 to 5. Acid resisting materials are recommended.
- Gabion Baskets & Mattresses**
- Zinc galvanised, PVC coated welded wire mesh to be used.
  - Stone density to be at least 18kN/m<sup>3</sup>. Stone used to fill gabion baskets and mattresses shall be hard, dense and durable stone free from fractures or cleavages.
  - Graded stone fill of between 100 to 200mm with a nominal 5% smaller or larger. Grading & angularity of fill to be considered to ensure better interlock of stone infill.
  - Details of jointing (horizontal & vertical) & pinning the gabions individually & together to be in accordance with gabion manufacturers recommendations.
  - Contractor to submit details of gabion baskets & mattresses for approval.
  - Gabion mattresses and baskets to be laid on geotextile membrane
- To be read in conjunction with drawings 2011s5031 - 152 to 157
  - All exposed concrete edges to have 25mm Chamfers.
  - M&E Contractor will design & install the following:
    - Screw pump & its accessories
    - Diesel generator & external fuel tank
    - Telemetry system
    - Renewable energy system
    - Battery & its accessories
    - Control panels & cabinet
    - Water level detectors
  - Works to be carried out to Civil Engineering Specification for the Water Industry 7th Edition & any supplementary clauses included.
  - All concrete to be acid resisting concrete due to the site condition mentioned in note 9.
  - All materials including stones & granular fill shall not be alkaline in nature due to PH condition of site as stated in note 9.
  - RC outfall structure, Gabion baskets and mattresses are all designed to act together as one earth retaining structure.

**Safety, Health and Environmental Information**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks:

**Construction**

- Remote site
- SSSI
- Peat bog
- Secured access points
- Working over a watercourse

**Maintenance/cleaning/operation**

- Remote site
- SSSI
- Peat bog
- Secured access points
- Working over a watercourse

**Decommissioning/demolition**

- Remote site
- SSSI
- Peat bog
- Secured access points
- Working over a watercourse

Rev.	Modifications	Date	Drawn	Designed	Checked	Approved
E	Gravity Structure amended	05.12.16	A.M.T	PB	C.W	C.W
D	Discharge amended for pump	25.10.16	DM	PB	PB	CW
C	Section I-I and G-G amended	05.10.16	DM	BA	AT	CW
B	Text standard amended & Structure sizes amended	03.10.16	DM	BA	AT	CW
A	Dimension removed from isometric view	08.08.16	DM	BA	AT	CW

**JBA**

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for

**Doncaster East Internal Drainage Board**  
Thorne, Crowle and Goole Moors  
WLMP Implementation  
Proposed Pumping Station Details 2

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Scale:	As shown @ A1	Drawn:	A. Taylor	20.11.15
		Designed:	B. Angamuthu	20.11.15
		Checked:	A. Thomas	05.01.16
		Approved:	C. Wright	05.01.16

Digital File Name: 2015s5031-157 Proposed Pumping Station Details 2

Drawing Number:	Rev.:	Sheet No.:	Status:
2011s5031 -157	E	1 of 1	CONSTRUCTION