

NEC4 Engineering and Construction

Short Contract

FCRM Operational Framework – SE Hub				
A contract between	The Environment Agency Horizon House Deanery Road Bristol BS1 5AH			
And	Breheny Civil Engineering Ltd			
For	Maddle Farm Borehole Replacement Contract Forms - Contract Data - The Contractor's Offer and Client's Acceptance - Price List - Scope - Site Information			

Contract Data

The Client's Contract Data

	The Client is	
Name	Environment Agency	
Address for communications	Kings Meadow House, King RG1 8DQ	gs Meadow Road, Reading, Berkshire.
Address for electronic communications	defra.bravosolution.co.uk	
The works are	To drill a new dual aquifer	observation borehole
The sites are	Maddle Farm OBH	
The starting date is	18/10/2021	
The completion date is	31/03/2022	
The delay damages are	N/A	Per day
The <i>period</i> for reply is	2	weeks
The defects date is	52	weeks after Completion
The defects correction period is	4	weeks
The assessment day is	the last working day	of each month
The retention is	nil	%

The United Kingdom Housing Grants, Construction and Regeneration Act (1996) does apply

The Adjudicator is:

In the event that a first dispute is referred to adjudication, the referring Party at the same time applies to the Institution of Civil Engineers to appoint an *Adjudicator*. The application to the Institution includes a copy of this definition of the *Adjudicator*. The referring Party pays the administrative charge made by the Institution. The person appointed is also *Adjudicator* for later disputes.

Contract Data

The Client's Contract Data

The int	erest rate on late payment is		% per complete week	of delay.	
Insert	a rate only if a rate less than 0.5%	per week of de	elay has been agreed.		
For an	y one event, the liability of the	£100,000			
	ctor to the Client for loss of or	•			
damag	e to the Client's property is limited				
to					
The Cl	ient provides this insurance	None			
		Insurance 1	Гable		
Event			Cover	Cover provided until	
Loss of	f or damage to the works		The replacement cost	The Client's certificate of	
	-		·	Completion has been issued	
	f or damage to Equipment, Plant and		The replacement cost	The defects Certificate	
The Co	ontractor's liability for loss of or dama	ge to property	Minimum £5,000,000 in	has been issued	
	t the works, Plant and Materials an		respect of every claim		
	r bodily injury to or death of a pe		without limit to the		
	yee of the <i>Contractor</i>) arising from or	in connection	number of claims		
	e Contractor's Providing the Works	olovees of the	The amount required by	1	
	Liability for death of or bodily injury to employees of the Contractor arising out of and in the course of their the applicable law				
	ment in connection with this contract		are applicable law		
	of the Contractor to use the skill and		Minimum £5,000,000 in	6 years following	
used by professionals providing works similar to the works		respect of every claim			
			without limit to the	of the works or earlier	
			number of claims	termination	
The Ac	diudicator nominating hody is	The Institution	of Civil Engineers		
THE AC	djudicator nominating body is	THE ITISHULION	Of Civil Engineers		
The tril	bunal is	litigation in the	courts		
	enditions of contract are the NEC4 En	gineering and C	Construction Short Contrac	t June 2017 and the	
	ng additional conditions Inter details here if additional cond	itions are reas	irod		
Z1.0	Sub-contracting	inons are requ	ili eu.		
Z1.1		each proposed	subcontractor to the Clien	t for acceptance A reason	
	Z1.1 The <i>Contractor</i> submits the name of each proposed subcontractor to the <i>Client</i> for acceptance. A reason for not accepting the subcontractor is that their appointment will not allow the <i>Contractor</i> to Provide the				
	Works. The <i>Contractor</i> does not appoint a proposed subcontractor until the <i>Client</i> has accepted them.				
Z1.2	Payment to subcontractors and sup				
Z2.0	Environment Agency as a regulator				
Z2.1	The Environment Agency's position				
	and distinct. Actions taken in one ca				
Z2.2	Where statutory consents must be obtained from the Environment Agency in its capacity as a regulatory authority, the <i>Contractor</i> is responsible for obtaining these and paying fees (unless stated otherwise in				
	authority, the Contractor is respons	ible for obtaining	ig tnese and paying fees (uniess stated otherwise in	

does not constitue Z2.3 An action by the compensation extended and co	Publicity nay publicise the works only with the <i>Client's</i> written agreement.
Z3.0 Confidentiality & Z3.1 The Contractor in Z4.0 Correctness of S Z4.1 Site Information by the Client but Information they Z5.0 The Contracts (F Z5.1 For the purposes purports to confer Z6.0 Design Z6.1 Where design is normally used by Z6.2 The Contractor in Z6.3 The Contractor is Z6.4 Contractor is Z6.5 Conference in Z6.5 Contractor is Z6.5 Conference in Z6.5 Contractor is Z6.5 Conference in Z6.5 Conference i	Publicity nay publicise the works only with the <i>Client's</i> written agreement. Site Information about the ground, subsoil, ducts, cables, pipes and structures is provided in good faith it is not warranted correct. The <i>Contractor</i> checks the correctness of any such Site rely on for the purpose of Providing the Works. Rights of Third Parties) Act 1999 Sof the Contracts (Rights of Third Parties) Act 1999, nothing in this contract confers or er on a third party any benefit or any right to enforce a term of this contract.
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Z6.1 Where design is normally used by Z6.2 The Contractor of Z6.3 The Contractor s	professionals providing similar design services.
normally used by Z6.2 The Contractor of Z6.3 The Contractor s	professionals providing similar design services.
Z6.3 The Contractor s	lesigns the parts of the works which the Scope states they are to design
applicable law.	ubmits the particulars of their design as the Scope requires to the <i>Client</i> for acceptance. accepting the <i>Contractor's</i> design is that it does not comply with either the Scope or the
	loes not proceed with the relevant work until the Client has accepted this design.
assessed fully.	may submit their design for acceptance in parts if the design of each part can be
Z7.0 Change to Comp	
	f Clause 60.1(11) and replace by:
	fected by any one of the following events
	rebellion revolution, insurrection, military or usurped power
	nd civil commotion not confined to the employees of the <i>Contractor</i> and sub-contractors
combustion of nu	ion or radioactive contamination from nuclear fuel or nuclear waste resulting from the
1	oxic, explosive or other hazardous properties of an explosive nuclear device
Natural disaster	
Fire and explosion	
•	raft or other device or thing dropped from them
Z8.0 Framework Agre	
Z8.1 The Contractor	shall ensure at all times during this contract it complies with all the obligations and Framework Agreement made with the <i>Client</i> .
Z9.0 Termination	
	f Clause 92.3 and replace with:
	terminates for Reason 1 or 6, the amount due on termination also includes 5% of any
	cast of the amount due at Completion had there been no termination over the amount
due on termination	on assessed as for normal payments.
710.0 Data Drata etica	
Z10.0 Data Protection	a of the Data Dratagtian Cahadula shall be incornerated into this contract
	s of the Data Protection Schedule shall be incorporated into this contract
	ion claims and regulatory fines for breaches of Data Protection Legislation are excluded
from any limit of	g ,
Z12.0 Packaging	
	ntaining packages of projects the Client's Contract Data, Scope and Site Information
	ndividual project is contained within its Site Specific Pack
	ensation Event COVID-19
	igating the impact of Covid 19 and work in accordance with Public Health England guidance, as
	ne to time, from 1st July to 31st October 2021.
Z30.0 Material Price Vo	platility
The Client recog	nises the ongoing pricing uncertainty in relation to materials for the period from 1 July
	2022 the Client will mitigate this additional cost through this clause. Payment is made

per assessment based upon a general average material proportion within assessments, calculated at 40%.

Z30.1 Defined terms

- a) The Latest Index (L) is the latest index as issued by the Client. The L, which is at the discretion of the Client, is based upon the issued consumer price index ((CPI) based upon the 12-month rate) before the date of assessment of an amount due.
- b) The Price Volatility Provision (PVP) at each date of assessment of an amount due is the total of the Material Factor as defined below multiplied by L for the index linked to it.
- c) Material Factor (MF) 40% is used, based on a general average material proportion across our programme. The volatility provision is only associated with material element. No volatility provision is applicable to any other component of costs.

Z30.2 Price Volatility Provision

Through a Compensation Event the Client shall pay the PVP. PVP is calculated as:

Assessment x MF x L = PVP

Z30.3 | Price Increase

Each time the amount due is assessed, an amount for price increase is added to the total of the Prices which is the change in the Price for Work Done to Date for the materials component only (and the corresponding proportion) since the last assessment of the amount due multiplied PVP for the date of the current assessment.

Z30.4 Compensation Events

The Contractor shall submit a compensation event for the PVP on a monthly basis (where applicable) capturing Defined Cost only for the PWDD increase in month. Forecasted costs should only be considered for the June 2022 period compensation event.

Assessment Date	Defined Cost?	Forecasted Cost?
31 st Jul 21	In period costs only	No
31 st Aug 21	In period costs only	No
30 th Sept 21	In period costs only	No
31 st Oct 21	In period costs only	No
30 th Nov 21	In period costs only	No
31 st Dec 21	In period costs only	No
31 st Jan 22	In period costs only	No
28 th Feb 22	In period costs only	No
31 st Mar 22	In period costs only	No
30 th Apr 22	In period costs only	No
31 st May 22	In period costs only	No
30 th Jun 22	In period costs only	Forecasted costs for remainder of contract

The Defined Cost for compensation events is assessed using

- the Defined Cost at base date levels for amounts calculated from rates stated in the Contract Data for People and Equipment and

- the Defined Cost current at the date the compensation event was notified, adjusted to the base date 1+PVP for the last assessment of the amount due before that date, for other amounts.	by

The Contractor's Contract Data The Contractor is Name Breheny Civil Engineering Ltd Address for communications Address for electronic communications The fee percentage is As per FCRM Framework Rates %

rate

As per FCRM Framework Rates

As per FCRM Framework Rates

unit

category of person

The published list of Equipment is

The percentage for adjustment for Equipment is

Contract Data

The *Contractor's* Offer and *Client's* Acceptance

	e Works in accordance with these <i>conditions of contract</i> for an amount to be
determined in accordance with thes	se conditions of contract.
The offered total of the Prices is	£169,156.00
	Enter the total of the Prices from the Price List.
Signed on behalf of the Contractor	Effice the total of the Frices from the Frice List.
olgrica on benan of the contractor	
Name	
Position	EA SE Framework Manager
Signature	
Date	12 July 2021
	,
The Client accepts the Contractor's	Offer to Provide the Works
Signed on behalf of the Client	
Name	
Docition	Coming Communical Officers
Position	Senior Commercial Officer
Signature	
Oignature	
Date	14 Oct 2021

Price List

Entries in the first four columns in this Price List are made either by the Client or the tenderer.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tenderer enters the amount in the Price Column only: the Unit, Quantity and rate columns being left blank.

If the *Contractor* is to be paid an amount for the item of work which is the rate for the work multiplied by the quantity completed, the tenderer enters the rate which is then multiplied by the expected quantity to produce the Price, which is also entered.

Item Number	Description	Unit	Quantity	Rate	Price
1	Remove and dispose of the old concrete OBH kiosk	SUM			Included
2	Decommission the old OBH in accordance with the Environment Agency guidance: Good practice for decommissioning redundant boreholes and wells – October 2012 and inform the British Geological Survey.	SUM			£ 9,171.00
3	Health & Safety requirements Risk assessment & method statement document, Health & Safety and Environmental assessment. Delivery of an H&S File for the completed works	SUM			£ 5,228.00
4	Mobile Welfare Provision As per CDM 2015.	SUM			£ 19,070.00
5	Drill the new dual aquifer borehole, to be 250mm diameter, 122m deep through Chalk and Greensand.	SUM			£ 126,125.00
6	Supply of 75mm diam uPVC pipe (approx. 120m long) – see 'Proposed Borehole Construction' drawing	SUM			Included
7	Supply an impermeable flange/concrete seal (to separate the Chalk from the Upper Greensand.) – see 'Proposed Borehole Construction' drawing	ITEM	1		Included
8	Supply a stainless steel kiosk (1500mm x 700mm x 700mm) – see 'Proposed Kiosk Construction' drawing	ITEM	1		£ 3,016.00
9	Installation of an inner 75mm diam uPVC pipe to feed the Upper Greensand aquifer through the impermeable flange/concrete seal at approx.111m deep (to be determined by the contractor through the provision of a detailed geological log) so to separate the Chalk from the Upper Greensand. – see 'Proposed Borehole Construction' drawing	SUM			Included
10	Installation of the borehole headworks – see 'Proposed Borehole Construction' drawing Including concrete risers, 10m of plain liner (250mm diam), stainless steel kiosk (1500mm	SUM			£ 3,639.00

	x 700mm x 700mm) installed on top of a concrete plinth.				
11	Provide a detailed geological log and record of the new borehole. To be submitted to the Environment Agency and the British Geological Survey.	SUM			£ 2,492.00
12	Carbon Calculator	SUM			£415.00
				-	
				-	
		•			
	The	total of	the Prices	£169,156.00	

The method and	d rules used	to compile the P	rice List are
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Civil Engineering Standard Method of Measurement 4th edition (CESMM4) as per the Framework Price Workbook.

Scope

1. Description of the works

Give a detailed description of what the *Contractor* is required to do and of any work the *Contractor* is to design.

The requirement entails a new observation borehole to replace the existing Maddle Farm OBH Chalk and Upper Greensand groundwater level monitoring site (10m away) which is blocked.

A new dual aquifer observation borehole shall be drilled to 122m below ground level (into the Upper Greensand). The borehole will require an inner and out pipe to feed the two aquifers.

- A 75mm diam uPVC dipping tube that feeds into the Upper Greensand (approx. 122 m depth), through an impermeable flange/concrete seal at approx.111m deep (to be determined by the contractor through the provision of a detailed geological log) so to separate the Chalk from the Upper Greensand.
- The tube penetrating the Upper Greensand will run down inside the large outer chalk borehole (250mm diam), which will have a plain lining for approx. 10m deep from the surface (similar to the original observation borehole).

The headworks (see 'Proposed Borehole Construction' drawing) will comprise of:

- concrete risers surrounding the outer 250mm diam pipe riser,
- pipe flange to be level with the ground,
- stainless steel kiosk (1500mm x 700mm x 700mm) installed on top of a concrete plinth.

The *Contractor* must prepare a detailed Construction Phase Plan (CPP) in accordance with the SHEW Code of Practice and any other information critical to be produced and accepted by the *Client* before commencement on site. Note: A suitably developed Construction Phase Plan must be issued for approval not less than 10 days prior to planned mobilisation.

Records

- A detailed geological log and record of the new borehole will be required to be submitted to the Environment Agency and the British Geological Survey.
- Delivery of an H&S File for the completed works

Decommission of the old observation borehole.

This will involve:

- removing/disposing of the old concrete kiosk, cap the dead electrical supply cable and bury into the old concrete riser.
- backfilled and seal the borehole in line with the EA's guidance: Good practice for decommissioning redundant boreholes and wells – October 2012 and inform the British Geological Survey.
- Backfill the top of the borehole with hardcore and soil to level the ground and make good.

The <i>Contractor</i> shall reinstate the access to any of the sites and repair any damage caused (including fences).

2. Drawings

List the drawings that apply to the contract.

Drawing Number	Revision	Title
1	1	Map of the pumping station locations
2	1	Proposed Borehole Construction
3	1	Proposed Kiosk Construction

3. Specifications

List the specifications which apply to the contract.

Title	Date or Revision	Tick if publicly available
EA's guidance: Good practice for	October 2012	
decommissioning redundant boreholes and wells		
Maddle Farm Dual Observation Borehole Specs	V1	

4. Constraints on how the Contractor Provides the Works

State any constraints on the sequence and timing of work and on the methods and conduct of work including the requirements for any work by the *Client*.

The Contractor shall not commence any work on the site until the Client, or their representative, has accepted the method statements and risk assessments related to this contract

The Contractor is to prepare, for the Client's acceptance, the Construction Phase Plan (CPP) prior to starting the works

The Contractor shall not commence any work on the site until the Landowner has agreed to the staring date/time.

Working times

The Contractor will be permitted to work between 7.30am and 6.00pm on weekdays (Monday to Friday)

5. Requirements for the programme

State whether a programme is required and, if it is, state what form it is to be in, what information is to be shown on it, when it is to be submitted and when it is to be updated.

State what the use of the works is intended to be at their Completion as defined in clause 11.2(1).

The Contractor submits his programme with the Contractor's Offer for acceptance. The Contractor shows on each programme which he submits for acceptance (in form of Gantt chart showing the critical path, proposed order and timing to undertake the works and proposed plant and labour resources) the following:

(a) Period required for mobilisation/ planning & post contract award
(b) starting date
(c) Each of the activities listed within the Price List
(d) Any key third party interfaces: lead in periods for materials and sub-contractors; time required to obtain consents/waste permits; stated constraints; Contractor's risks.

(e) Completion date

6. Services and other things provided by the Client

Describe what the Client will provide, such as services (including water and electricity) and "free issue" Plant

6. Services and other things provided by the <i>Client</i> Describe what the <i>Client</i> will provide, such as services (including water and electricity) and "free issue" Plant and Materials and equipment.		
Item	Date by which it will be provided	
Site Information		
Map of Maddle Farm OBH location		
PCI document Utilities searches		
Ounties searches		

Proposed sub-contractors		
	Name and address of proposed subcontractor	Nature and extent of work

1.	Form of Contract:	
2.	Form of Contract:	
3.	Form of Contract:	
4.	Form of Contract:	