

Professional Service Contract

Contract Data Forms

June 2017 (with amendments January 2023)



Contract Execution

This agreement is made between the Client, the Consultant and the Named Suppliers.

Terms in this agreement have the meanings given to them in the contract between the Environment Agency and for Colne and Holme Model Update, including Calder Dewsbury (the *service*).

The Consultant offers to Provide the Services in accordance with these conditions of contract for an amount to be determined in accordance with these conditions of contract.

The Consultant was appointed to the 2024 Mapping and Modelling Framework and executed the framework agreement



Contract Data

PART ONE – DATA PROVIDED BY THE CLIENT

Completion of the data in full, according to the Options chosen, is essential to create a complete contract.

1 General

The *conditions of contract* are the core clauses and the clauses for the following main Option, the Option for resolving and avoiding disputes and secondary Options of the NEC4 Professional Service Contract June 2017 (with amendments January 2019)

Main Option

С

Option for resolving and avoiding disputes

W2

Secondary Options

X2 Changes in the Law

X10 Information Modelling

X11 Termination by the Client

X18 Limitation of Liability

Y(UK)2, The Housing Grants Construction and Regeneration Act 1996

additional conditions of contract

Z1, Disputes

Z2,Prevention

Z3, Disallowable Costs

Z4,Share on Termination

Z6 Schedule of Cost Components

Z24 Requirements for Invoice

Z125 Limitation of Liability

The service is

Updates to the *Clients* existing Hydraulic modelling of the Colne, Holme, and mid Calder catchments, including MapEdit and Flood Warning update deliverables.

The Client is

Name

Environment Agency

Address for communications

Horizon House Deanery Road Bristol BS1 5AH

Address for electronic communications

enquiries@environment-agency.gov.uk

Name

Address for communications

Address for electronic communications:

The Scope is in

NEC4 PSC Scope - Colne Holme Calder V4. Rev 2, Dated 13/01/2025

	The language of the contract is	English England and Wales, subject to the jurisdiction of the courts of England and Wales				
	The law of the contract is the law of					
	The period for reply is	2 weeks	except that			
	• The period for reply for	n/a	is n/a			
	• The period for reply for	n/a	is n/a			
	The period for retention is 6 year The following matters will be included in the N/A	ar(s) following Completion of Early Warning Register	or earlier termination			
2 The Consultant's m	Early warning meetings are to be held at in longer than ain responsibilities		weeks			
f the <i>Client</i> has identified	The key dates and conditions to be met are					
work which is set to meet a stated <i>condition</i> by a <i>key</i>	condition to be met key date					
date	(1) Not used					
	(2) Not used					
	(3) Not used					
f Option A is used	The Consultant prepares forecasts of the intervals no longer than		t applicable			
f Option C or E is used	The Consultant prepares forecasts of the plus Fee and expenses at intervals no lo		weeks			
3 Time						
	The starting date is	1	7/03/2025			

	The Client provides access to the	following persons, places and	tnings
	access	a	ccess date
	(1)		
	(2)		
	(3)		
	(6)		
	The Consultant submits revised	d programmes at intervals no	
	longer than		4 weeks
f the <i>Client</i> has decided he <i>completion date</i> for the whole of the <i>service</i>	The completion date for the who	ole of the <i>service</i> is	
f no programme is	The period after the Contract Da	ate within which the	
dentified in part two of the Contract Data	Consultant is to submit a first pr	ogramme for acceptance is	4 weeks
4 Quality managemen	t		
	The period after the Contract D	ate within which the Consultant	1
	is to submit a quality policy stat	tement and quality plan is	4 weeks, if not previously provided by the <i>Consultant</i>
	The period between Completion	n of the whole of the service	
	and the defects date is		26 weeks
5 Payment			
o i dymont	The currency of the contract is th	20	£ sterling
	The currency of the contract is the	ie	
	The assessment interval is		Monthly
f the Client states any	The expenses stated by the Client	t are	
expenses	item	amount	
	item	amount	
f the period in which payments are made is not hree weeks and Y(UK)2 is	The period within which paymen	ats are made is 1 Month	
not used f Option C or E is used and the <i>Client</i> states any ecations	The locations for which the Consultant provides a charge for the cost of support people and office overhead are	N/A	

	(A)			
on	a monthly	(data)		

6 Compensation events

If there are additional

These are additional compensation events

occurrence

None

8 Liabilities and insurance

If there are additional Client's liabilities These are additional Client's liabilities

- 1) Not used
- (2) Not used
- (3) Not used

The minimum amount of cover and the periods for which the *Consultant* maintains insurance are



The Consultant provides these additional insurances

(1) Insurance against	
Minimum amount of cover is	

The deductibles are	n/a			
(2) Insurance against	n/a			
Minimum amount of cover is	n/a			
The deductibles are	n/a			
(3) Insurance against	n/a			
Minimum amount of cover is	n/a			
The deductibles are	n/a			
The Consultant's total liability to the Client for all matters arising under or in connection with the contract, other than				

the excluded matters is limited to

Resolving and avoidi	ng disputes		
	The <i>tribunal</i> is	Litigation in the cour	ts
the tribunal is arbitration	The arbitration procedure is	to be confirmed	
	The place where arbitration		
	is to be held is	to be confirmed	
	The person or organisation who choice or if the arbitration proceed		
	to be confirmed		
	The Senior Representatives of the	e Clientare	
	Name (1)		
	Address for communications		
	Address for electronic comm	unications	
	Name (2)		
	Address for communications		
	Address for electronic comm	unications	
	Address for electronic confi	unications	
	The <i>Adjudicator</i> is		
	Name	to be cor	nfirmed
	Address for communications	to be cor	nfirmed
	Address for electronic comm	unications to be cor	nfirmed

The Adjudicator nominating body is

Institution of Civil Engineers

X2: Changes in the la	aw				
If Option X2 is used	The law of the project is	The law of England and W			
		jurisdiction of the courts of	jurisdiction of the courts of England and Wales		
X5: Sectional Comple	etion				
If Option X5 is used	The completion date for each	th section of the service is			
	section	description	completion date		
	(1)	Not used			
	(2)				
	(3)				
	(4)				
X7: Delay damages					
If Option X7 is used without Option X5	Delay damages for Comple	etion of the whole of the service a	re Not used per day		
If Option X7 is used with	Delay damages for each sec	ction of the service are			
Option X5	section	description	amount per day		
	(1)	Not used			
	(2)				
	(3)				
	(4)				
		e remainder of the service are			
X8: Undertakings to	Others				
If Option X8 is used	The undertakings to Others	are provided to			
	Not Used				
X10: Information mode	elling				
If Option X10 is used					
If no information	The period after the Con	tract Date within which the Consu	ultant is to submit a first		
execution plan is	Information Execution Pla		4 weeks		
identified in part two of the Contract Data			45		
X11: Termination by th	e Client				
X13: Performance bond	1				
A TOTAL OF TOTAL CONTROL DOTAL	in .				

The amount of the performance bond is

N/A

If Option X13 is used

X18: Limitation of liability If Option X18 is used The Consultant's liability to the Client for indirect or consequential loss is limited to

The Consultant's liability to the Client for Defects that are not found until after the defects date is limited to

The end of liability date is 6 years after the Completion of the whole of the service

Y(UK)1: Project Bank Account Charges made and interest The Consultant is not to pay any charges made and to be paid any interest paid by the paid by the project bank project bank Y(UK)2: The Housing Grants, Construction and Regeneration Act 1996 If Option Y(UK)2 is used The period for payment is 14 days after the date on which payment becomes due and the final date for payment is not fourteen days after the date on which payment becomes due Y(UK)3: The Contracts (Rights of Third Parties) Act 1999 If Option Y(UK)3 is used term beneficiary If Y(UK)3 is used with term beneficiary Y(UK)1 the following The provisions of Named Suppliers entry is added to the

Options Y(UK)1

table for Y(UK)3

Z: Additional conditions of contract

If Option Z is used The additional conditions of contract are

Z1 Disputes:

Delete existing clause W2.1

Z2 Prevention

The text of clause 18 Prevention is deleted.

Delete the text of clause 60.1(12) and replace with:

The service is affected by any of the following events

- War, civil war, rebellion, revolution, insurrection, military or usurped power;
- Strikes, riots and civil commotion not confined to the employees of the Consultant and sub consultants,
- Ionising radiation or radioactive contamination from nuclear fuel or nuclear waste resulting from the combustion of nuclear fuel.
- Radioactive, toxic, explosive or other hazardous properties of an explosive nuclear device,
- Natural disaster,
- · Fire and explosion,
- Impact by aircraft or other aerial device or thing dropped from them.

Z3 Disallowed Costs Option C

Add the following in second bullet of 11.2 (18) add:

(including compensation events with the sub contractor, i.e. payment for work that should not have been undertaken). Add the following additional bullets after 'and the cost of ':

- Mistakes or delays caused by the Consultant's failure to follow standards in Scopes/quality plans.
- Reorganisation of the Consultant's project team.
- Additional costs or delays incurred due to *Consultant's* failure to comply with published and known guidance or document formats.
- Exceeding the Scope without prior instruction that leads to abortive cost
- Re-working of documents due to inadequate QA prior to submission, i.e. grammatical, factual arithmetical or design errors.
- Production or preparation of self-promotional material.
- Excessive charges for project management time on a commission for secondments or full time appointments (greater than 5% of commission value)
- Any hours exceeding 8 per day unless with prior written agreement of the Service Manager
- Any hours for travel beyond the location of the nearest consultant office to the project unless previously agreed with the Service Manager
- Attendance of additional individuals to meetings/ workshops etc who have not been previously invited by the Service Manager
- Costs associated with the attendance at additional meetings after programmed completion, if delay is due to *Consultant* performance.
- Costs associated with rectifications that are due to *Consultant* error or omission.
- Costs associated with the identification of opportunities to improve our processes and procedures for project delivery through the *Consultant's* involvement
- Was incurred due to a breach of safety requirements, or due additional work to comply with safety requirements
- Was incurred as a result of the Client issuing a Yellow or Red Card to prepare a Performance Improvement Plan
- Was incurred as a resulting of rectifying a non-compliance with the Framework Agreement and/or any call off contracts following an audit

Z4 Share on termination

Delete existing clause 93.3 and 93.4 and replace with:

92.3 In the event of termination in respect of a contract relating to services there is no Consultant's share'

Z6 The Schedule of Cost Components

Amend Clause 11.2 (17)

Defined Cost is the cost of the components in the Short Schedule of Cost Components as amended in the Framework Schedule 2 less Disallowed Cost.

Add clause 11.2 (19)

The People Rates are the *people rates* unless later changed in accordance with the contract.

Z24 Requirement for Invoice

Add the following sentence to the end of clause 51.1:

The Party to which payment is due submits an invoice to the other Party for the amount to be paid within one week of the Service Manager's Assessment.

Delete existing clause 51.2 and replace with:

51.2 Each certified payment is made within one week after the paying Party receives an invoice from the other Party and If a certified payment is late, interest is paid on the late payment. Interest is assessed from the date by which the late payment should have been made until the date when the late payment is made, and is included in the first assessment after the late payment is made

Under clause 87.1 after the fourth bullet point insert the additional bullet points: • loss of or damage to the *Client's* property, to the sum that the *Consultant* is required to insure under the contract in respect of such loss or damage, • death of or bodily injury to employees of the *Consultant* arising out of and in the course of their employment in connection with the contract, to the sum that the *Consultant* is required to insure under the contract in respect of such death or bodily injury.

Z125 Limitation of Liability

X10: Information	modelling				
	modelling				
If Option X10 is used					
If an information execution plan is to be identified in the Contract Data	The information in the Contraction	on execution plan ident et Data is	ified		
Y(UK)1: Project E	Bank Accour	nt			
If Option Y(UK)1 is used	d The <i>pro</i>	iect bank is			
	namea	suppliers are			
Data for the Short	Schedule of	Cost Component	es .		
The people rates are					
category of person (grade1-5)	Unit (hours)	Rate (Staff Grade Rate Cap £/hr)	Contract Rate Variance (<=1)	Contract people rate (£/hr)	_
					•
					1

2 The Consultant's m	ain responsibilities	
f the <i>Consultant</i> is to provide Scope	The Scope provided by the Consultant is in	
5 Payment		
f the Consultant states expenses	The expenses stated by the Consultant are any item amount]
f Option A or C is used	The activity schedule is	
Resolving and avoidi	ng disputes	
	The Senior Representatives of the Consultant are	
	Name (1)	
	Address for communications	
	Address for electronic communications	
	Name (2)	
	Address for communications	

Address for electronic communications

X10: Information	modelling				
	modelling				
If Option X10 is used					
If an information execution plan is to be identified in the Contract Data	The information in the Contraction	on execution plan ident et Data is	ified		
Y(UK)1: Project E	Bank Accour	nt			
If Option Y(UK)1 is used	d The <i>pro</i>	iect bank is			
	namea	suppliers are			
Data for the Short	Schedule of	Cost Component	es .		
The people rates are					
category of person (grade1-5)	Unit (hours)	Rate (Staff Grade Rate Cap £/hr)	Contract Rate Variance (<=1)	Contract people rate (£/hr)	_
					•
					1

CONTROLLED CONTENT

2024_MMF | NEC4 Professional Services Contract (PSC) | Scope | M & M Project

Template: LIT 72659

Published: 16/04/2024

Environment Agency

NEC4 Professional Services Contract (PSC)

Scope for M&M Projects

This template is a constituent part of a PSC for services let by the Environment Agency. It is a contract document, following the NEC4 format, for use as part of individual Calloff Contracts for projects let under the 2024 Mapping and Modelling Framework. Templates and further guidance (including a Framework User Guide) are available through the Framework SharePoint site.

Template Change Log

Revision date	Summary of changes	Version number
Aug 2023	Framework Tender issue	0.1
April 2024	Final updates from Task & Finish Group prior to issue	1.0

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Project & Contract Information:

Project name	Colne and Holme model Update, including Calder Dewsbury
Project code - SOP reference	2022/23-012217
Contract reference number	

Assurance:

Role	Role & Name	Date

Scope revision history

Revision date	Summary of changes	Version number
13/01/2025	Correction to dates required for client review of deliverables. Removal of Draft completion date from Appendix 2.	4
18/12/2024	Correction to model outputs required in section 10 of appendix 2. Replacement of LIT 13258 with LIT 56326 and link to Gov.uk. Minor edit to table headings to address issue in which black text was on a black background.	3
12/12/2024	Scope and appendix updated following clarifications.	2
28/11/2024	PSC scope updated following CSM comments	1.1
14/10/2024	PSC scope created	1.0

Documents Included in Scope by Reference

This Scope shall be read in conjunction with the documents detailed in the table below current at the Contract Date. In the event of conflict, this Scope shall prevail. The service is to be compliant with the following:

Document	Document Title	Version Number	Issue date
LIT 56326 & River modelling: technical standards and assessment - GOV.UK	Fluvial Modelling Standards	V4	18/07/2022
LIT 18686 Available here: <u>SharePoint</u>	NEC4 Minimum Technical Requirements for Modelling	7	01/02/2023
LIT 17641	Exchange Information Requirements	3.0	20/12/2022
LIT 16559	SHEW CoP SHEW CoP	6.0	12/12/2023
LIT 14284	Carbon Operating Instruction	6.0	15/08/2023

LIT 18749 National standard techn specifications for survey services		01/03/2023	
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Scope

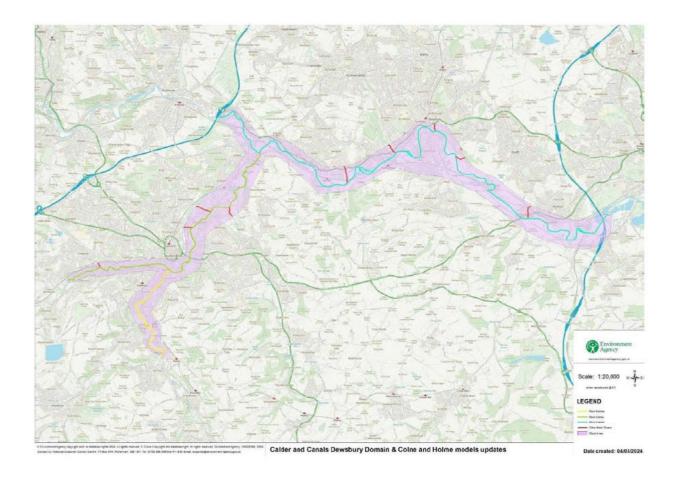
S 100 Purpose of the Service

S 105 Client Objectives

- Update and improve our understanding of flood risk for the catchments of the rivers Holme and Colne, and part of the mid to lower Calder catchment through the delivery of an updated and consolidated model.
- Update our flood risk mapping products, fulfil our KPI requirements for outputs to be delivered and uploaded to MapEdit and improve our Flood Warning service alerts and triggers.
- 3. Provide essential information for our Asset Performance Team on the standard of protection of defences in the study area and the number of properties protected, allowing them to make informed decisions about the continued maintenance of these assets. Examples of the type of maintenance carried in this study area are, repairs of outfalls, toe repairs where scour had eroded the base of a flood wall and any substantial repairs to any linear assets that are in poor condition.

S 110 Background

1. The study joins part of the modelling of the river Calder – from the m62 downstream of Brighouse to the M1 Downstream of Horbury – to the modelling of it's largest tributary, the river Colne. The Colne model is also joined by one of its own tributaries, the river Holme. The project aims to update the hydrological assessment of these pre-existing fluvial models and update the modelling of the Calder to further our understanding of fluvial flood risk in this area. This will allow us to review the multiple flood warnings in the area, support development, and create a renewed evidence base to support other internal capital schemes. The proposed study area is shown in the below map:



2. The modelling of the Calder in this study area is outdated and requires a more comprehensive update to modernise the hydrological assessments and calibrate to the numerous large events that have occurred in the interim. The modelling of the rivers Colne and Holme is more modern and is expected to require a less intensive update, predominantly focused on the hydrological aspects of the model. This project will improve our understanding of flood risk in these catchments, including that associated with climate change. This will also allow our Asset Performance teams to have more data they can use to inform maintenance and operation of their defences in the area, and for Flood Resilience teams to increase understanding of the Flood Alerts and Warnings needed in this area. This project is part of our larger ambition to update modelling across the Calder catchment.

S 200 Description of the service

S 205 Outcome Specification

The *Consultant* shall deliver the *service* such that it meets the specification listed in this section.

- 1. The *Consultant* shall ensure that the final solution/model takes into consideration all relevant guidance and legislation.
- The model will also demonstrate that the Consultant has learnt from best practice and take into account optimum flood risk reduction, natural processes, carbon reduction, recreation, and good ecological water quality as appropriate.
- 3. This commission must consider all necessary permissions/licences required and enable them to be obtained. (ie FRA, etc).
- The Consultant shall compile the supporting technical documentation required for the Client to approve/accept the model and associated outputs.
- The Consultant shall collate all available data and identify any missing data. The Consultant shall collate this evidence and agree the study area and study boundaries with the Client.
- 6. The *Consultant* shall be responsible for ensuring the design/model is acceptable to the *Client*.
- 7. The *Consultant* shall provide the *services* specified in the Modelling Technical Scope created in the Quick Scope Writer included in Appendix 2.
- The Consultant shall provide the service in accordance with the Minimum Technical Requirements for Modelling and the Modelling Technical Scope, included in Appendix 2.
- The Consultant shall provide the services specified in the Flood Warning Scope included in Appendix 3.

S 210 Constraints

 The Consultant shall attend at a project start-up meeting and progress meetings throughout the duration of the project. Any key decisions agreed with the Service Manager must be documented by the Consultant and promptly issued to the Service Manager. The Consultant shall take minutes, with actions identified

- (responsible party, date required), which shall be provided within 1 working week of meeting date for review by the *Service Manager*.
- 2. Monthly project progress reports to be provided to the Service Manager, including: a financial update and forecast; an updated programme; and a summary of work completed in month, an overview of upcoming stages and milestones, and key issues and risks. These must be provided by the 10th of every month unless stated otherwise by the Service Manager.
- 3. The *Consultant* shall complete a monthly risk register review, including an update (including *Consultant*'s risk budget) and implementation of resulting actions.

S 215 Consultant Project Management

- In managing the service the Consultant shall follow all the requirements as set out in the 2024 Mapping and Modelling Framework schedules and the relevant content of the Minimum Technical Requirements for Modelling.
- 2. In managing the service the Consultant shall:
 - provide a list of data requirements necessary to enable service delivery. This
 list shall be provided to the Client at the project start-up meetings, if not
 before, and shall be updated at weekly intervals thereafter.
 - provide input into the *Client's* risk register at each monthly progress meeting, by reporting new risks, and progress made on risk mitigation.
 - Provide input to project efficiency CERT Form.
 - Arrange monthly progress meetings and prepare record minutes within a week for the Client to issue.
 - Provide fortnightly project progress updates via phone and/or email throughout the project to the *Client*. Any key decisions agreed with the *Client* must be documented by the *Consultant* and promptly issued to the *Client*.
 - Deliver a monthly progress report in the Client's standard template (<u>LIT 12295</u>) giving progress against programme, deliverables received and expected through IDP and MIDP, financial summary against programme and forecast project carbon.
 - Provide a monthly FastDraft Cost Forecast
 - Shall, when carbon reporting requirements for the framework have been agreed, provide a monthly FastDraft Carbon Forecast
 - Attend project board meetings as required.
 - Ensure quarterly input into framework satisfaction surveys.
 - Capture lessons learnt relevant to project delivery for the Service Manager to include in the project lessons learnt log.

- The Consultant shall provide evidence of costs with all Applications for Payment on Client's cost template which shall include
 - Project details
 - MMF Actual Costs
 - MMF Expenses
 - MMF Sub-contractor

Submission of an Application for Payment without use of *Client's* cost template shall be treated as non-compliant submission.

- 4. The contract will be administered using the *Client's* contract management system (FastDraft).
- 5. Procurement of sub-contractors
 - Sub-contractors shall be selected using best value processes.
 - This requires the Consultant to demonstrate that they have made reasonable attempts to obtain three competitive tenders for all work in excess of £25,000.
 - Best practice is for Consultant to invite tenders on their sub-contracts through Contract Finder on gov.uk
 - The only exception to this is work which has been accepted (in writing) by the hub Commercial Services Manager for strategic suppliers or for emergency work.
- 6. The *Consultant* is responsible for any new data requirements and third-party data they procure.
- 7. The *Consultant* is responsible for obtaining any third party data considered necessary and ensuring it is correctly licensed for use.

S 220 Outputs and Deliverables

- Unless an alternative has been submitted and accepted by the Client the Consultant shall complete a data review for the whole project to analyse the completeness, accuracy, content and size of previous studies and data and identifies any risks or issues associated with these within 2 weeks of the Project Start-up Meeting.
- The Consultant shall produce an initial data review report to identify any major concerns within 3 weeks of the Project Start-up Meeting and utilising MS Teams or equivalent shall discuss the content of the report with the Client to allow appropriate action to be taken.

- The Consultant will record all actions agreed through MS Teams or emails in the Contract Management System (FastDraft>Records>Consultant meetings)
- 4. The Consultant shall produce the following key documents for this commission
 - Hydraulic Model Review
 - Hydrological Method Statement
 - Modelling Methodology Statement
 - Modelling report.
 - Hydrology report and calculation
 - Model Calibration and Validation report
 - Design simulations and results.
 - Updated/new flood warning area.
 - Updated/new RES FW threshold(s)
 - Programme showing milestones to project completion *Client* notification and review periods. The Programme shall take account of the timeframe required for all approvals necessary for mitigation and enabling works to be carried out in advance of main construction.
 - MapEdits outputs (GeoCobie data).
 - Master Information Delivery Plan (MIDP).
- The Consultant shall follow the Technical Scope for this contract which is defined in the Modelling Technical Scope (output from the Quick Scope Writer as included in Appendix 2)

S 300 Existing Information

S 305 Topographic Survey

- The Consultant will review previous topographic survey to identify gaps in existing data. The Consultant will use this to inform the scope of supplementary topographic survey required.
- 2. Should survey be required, the *Consultant* shall discuss this with the *Client*. Upon agreement, the *Consultant* shall complete the following clauses:
- The Consultant shall provide the topographical survey services specified in the Modelling Technical Scope created in the Quick Scope Writer included in Appendix 2 in accordance with LIT 18749 National Standard Contract and Specification for Surveying Services.

- The Consultant shall specify the survey scope in accordance with the Client's standard survey specification LIT 18749 <u>National standard technical specifications</u> for surveying services.
- 5. The Consultant shall:
 - Prepare a brief and procure the survey in accordance with the current version of the Environment Agency's National Standard Technical Specifications for Surveying Services, to enable the above.
 - · Review and agree surveyors' site risk assessment.
 - Supervise and manage the topographic survey company.
 - Review data / check deliverables.
- The Consultant shall use the outputs from the topographic survey in their modelling.

S 400 Specification and standards

S 405 Hydrology and Hydraulics

- 1. The *Consultant* shall include existing models listed in the Modelling Technical Scope (Appendix 2).
- 2. The Client shall provide a completed Modelling Technical Scope using the latest version of the EA Quick Scope Writer which covers all modelling elements of any study. This is provided as Appendix 2. Clause 4.2 of the Quick Scope Writer should not be used to avoid duplication of S 305 Topographic survey of this Scope.

S 410 General

- 1. The *Consultant* shall carry out Hydrology and Hydraulics as defined in the Modelling Technical Scope (output from Quick Scope Writer in Appendix 2)
- The existing modelling is identified in the Modelling Technical Scope (Appendix 2). The extents of the modelling and assumptions made are within the model report.
- 3. The Consultant shall verify the existing model with quality and extent checks.

S 500 Constraints on how the *Consultant* provides the *Service*

S 505 Health and Safety

- 1. Health, Safety and Wellbeing (HSW) is the number one priority of the *Client*. The *Consultant* shall promote and adopt safe working methods and shall strive to deliver design solutions that provide optimum HSW to all.
- 2. The *Consultant* shall follow and comply with the requirements outlined in <u>LIT</u> 61559 Safety, Health Environment and Wellbeing Code of Practice (SHEW CoP)
- The Consultant shall produce a risk assessment to support a site visit as detailed in section 4.1 of Appendix 2. The Client shall support these site visits to provide necessary technical knowledge and access to land where necessary.

S 510 General

- The Consultant shall allow a minimum of 20 working days in the programme for the Client to review draft deliverables and provide the Client with a minimum of 2 weeks' notice before the review submission.
- The Consultant shall allow a minimum of 25 working days for the initial data collection by the Client following the data review request by the Consultant.

S 600 Information and other things provided by *Client* and Others

S 605 Relevant Guidance

- The Consultant shall follow the 'documents included in the Scope by reference' in order to Provide the service.
- Any Client or Other's guidance that the Consultant needs in order to provide the service shall be listed below. The Client will make all of these guides available to the Consultant via Evidence and Risk: Minimal Technical Requirements for Modelling (sharepoint.com) or alternative means when necessary.

Ref	Report Name	Where used
183_05	Data management for FCRM projects	Mapping and modelling
LIT 582	Probable Maximum Flood	Mapping and modelling
Available here:	Calculation spreadsheet	
Sharepoint	State Control of the	
LIT 58487	MapEdit Quality Control Process	Mapping
LIT 58488	MapEdit Quality Control Tool guidance	Mapping
LIT11327 (included for awareness - this has been superseded by LIT 56326)	Computational Modelling to assess flood and coastal risk	Modelling
LIT 14710 Available here: Sharepoint	Using local data to reduce uncertainty in flood frequency analysis	Modelling
Available online here: gov.uk	Using Modelling for flood risk assessments	Modelling
ISO 9001:2015 Available online here: <u>iso.org</u>	Quality Management system Requirements	Modelling
LIT 56326 Available here: SharePoint	Fluvial Modelling Standards	Fluvial Modelling
LIT 56342 Available here: SharePoint	Fluvial Model Assessment Tool	Fluvial Modelling
LIT 56327 Available here: SharePoint	Fluvial Model Assessment Tool Guidance	Fluvial Modelling
LIT 56380 Available here: SharePoint	Real Time Model Development Guidance	Forecasting
LIT 11468	Operational Instruction 55_07 Threshold Setting in Flood Incident Management	Flood Incident Management
LIT 15640	Operational Instruction 381_03 Defining Flood Alert and Flood Warning Areas	Flood Incident Management



Ref	Report Name	Where used
R&D Manual W6_06	Extension of Rating Curves at Gauging Stations, Best Practice Guidance Manual	Hydrology
Research Project FRS 18087	Development of interim national guidance on non-stationary fluvial flood frequency estimation	Hydrology
LIT 11832 Available here: SharePoint	Flood Estimation Guidelines	Hydrology
LIT 65087	Flood Estimation Report Template	Hydrology
LIT 65088	Flood Estimation Report Template Notes (January 2023)	Hydrology
LIT 14089	Technical Guidance 466_15 High flow rating curve development using hydraulic models	Hydrology
LIT 66039 Available here: Sharepoint	Flood Estimation Calculation Review Template (May 2023)	Hydrology
Available online here: gov.uk	Flood and Coastal Risk projects, schemes and strategies: climate change allowances	Standards
SC120014	Accounting for residual uncertainty: updating the freeboard guide	Standards
LIT 11059	Environment Agency Policy: Flood Zones	Standards
Available online here: gov.uk	Joint Probability methods	Standards
CIWEM	UDG Code of Practice for the Hydraulic Modelling of Urban Drainage Systems	Surface Water modelling
CIWEM	UDG Rainfall Modelling Guide	Surface Water modelling
CIWEM	Integrated Urban Drainage Modelling Guide	Surface Water modelling
LIT 17132	Submitting locally produced	Surface Water
Available here:	information for updates to the Risk of	modelling
SharePoint LIT 14953	Flooding from Surface water	Project Management
LI1 14900	FCRM Efficiency Reporting – capital and Revenue	Project Management
LIT 12280	Lessons Log template	Project Management
LIT 55096	Integrated Assurance & Approval Strategy	Approvals
LIT 72263	Reservoir Modelling Scope	Reservoirs



Ref	Report Name	Where used
Available here: Sharepoint		
LIT 56607 Available here: Sharepoint	Reservoir Flood mapping specification	Reservoirs

S 610 Services and other things provided by the Client

- 1. Access to Environment Agency systems and resources including:
 - Asite or specify other Client Common Data Environment.
 - Contract management system (FastDraft).
 - Collaborative Delivery Community SharePoint access.
- 2. The *Client* will arrange and attend meetings with landowners and site visits with the *Consultant* in attendance.
- 3. Site access authorisation letter(s) to carry out surveys and site visits.
- Previous studies listed in the Modelling Technical Scope (formed by Quick Scope writer, in Appendix 2). The *Client* will provide the previous studies within 25 working days.
- 5. Available survey within the study area shall be provided by the *Client* within 25 working days.
- 6. Any other data owned by the *Client* which is requested by the *Consultant* will be provided along with a data licence.

S 700 Timing, programme and Completion

S 705 Programme requirements

- 1. The *Consultant* shall provide a detailed programme in Microsoft Project format version 2016 meeting all requirements of Cl.31 of the Conditions of Contract.
- 2. The Consultant shall provide a baseline programme for the project start up meeting and shall update the programme according to the timeframe specified in the contract data for progress meetings with actual and forecast progress against the baseline. The programme shall also include alignment and submission of the

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- Buildings Information Management Execution Plan (BEP) and Master Information Delivery Plan (MIDP).
- 3. The programme shall cover all the activities and deliverables in the project, and include all major project milestones from commencement to the end of the reporting, consultation and approvals stage.
- 4. The programme shall include, but not be limited to
 - Start Up Meeting
 - Data Request and Review
 - Methodologies review & Sign Off
 - Technical/Risk Review Workshop
 - Hydrological assessment and hydrometric review
 - Hydrology and Draft Hydrology Review Report & Review
 - Interim Reviews as necessary
 - Model Calibration Review (where applicable)
 - Baseline Model Review
 - Draft Model Report & Deliverables Review
 - Final Model Report & Deliverables Review
 - Handover
 - Project Closure
- 5. The programme shall identify time risk allowance on the activities and float. A minimum of 20 working days for review by the *Client* shall be included where relevant.
- 6. The programme shall include critical path activities and all the activities to be undertaken by the *Consultant* and other members of the project team. Activities requiring *Client* input shall be clearly identified.
- 7. The Consultant shall allow 25 working days for the initial data collection by the Client
- 8. The *Consultant* will allow a minimum of 20 working days for the *Client* review of deliverables. Review periods for large or complex models shall be agreed with the *Client*. Should more than one model update be ready for review at the same time then additional review time shall be agreed with the *Client*.
- 9. The *Consultant* will provide at least 10 working days' notice of submission for the *Client* review of deliverables.

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S 725 Information required (data)

- 1. The *Consultant* shall handle, manage data in accordance with the framework schedules and Exchange Information Requirements (EIR).
- 2. All of the data listed as being supplied by the *Client* to the *Consultant* as part of these studies remains the IP of the *Client*.
- 3. All data provided by the *Client* for use in the Project shall be returned alongside the final deliverables as part of the final handover procedure.

S 735 Completion definition

- The final deliverables and reporting must be approved by the *Client* prior to Contract Completion. Multiple review periods may be required if *Client* comments are not addressed to the satisfaction of the *Client*.
- 2. The following are absolute requirements for Completion to be certified:
 - Transfer to the *Client* of Information Management data (appendix 1)
 - PSC Clause 11.2(2) work to be done by the Completion Date

S 800 Other requirements of the conditions of contract

S 805 Consultants application for payment / invoicing

- 1. After Service Manager's issue of Payment Certificate in the contract management system (FastDraft), the Consultant shall issue draft invoice <u>EA-Invoices-PA@environment-agency.gov.uk</u> for assurance.
- 2. The *Consultant* shall use the following naming convention in their email subject "Draft invoice Hub name PO1234567890 Invoice123456"
- On confirmation of assurance the Consultant shall issue invoice to SSCL at apinvoices-env-u@gov.sscl.com

S 810 Client's advisors

 The Client for the Contract is represented by the EA Project Manager, acting as the Service Manager, and in their absence, the Project Executive. Instructions may only be given by these staff.

- 2. The Client has a number of advisory departments. Instructions will only be deemed enacted from them when they are confirmed by an Instruction from the Service Manager through the Client's Contract Management System (FastDraft). These departments include Partnership & Strategic Overview, Data and Evidence, Evidence and Risk, Flood Resilience, Asset Performance, Partnership & Strategic Overview, NEAS, etc.
- 3. The *Client's* organisation has a regulatory function. Communications from the Environment Agency in its capacity as a regulator are not to be confused with communications as the *Client*.

S 815 Client documents the Consultant contributes to

- The Client maintains several project documents, the Consultant is required to contribute to these Client owned documents:
 - Project Risk Register.
 - Project Efficiency CERT Form.
 - Project Lessons Learnt Log.
 - The Cost and Carbon Tool (CCT) within ERIC.

Appendix 2 -	 Modelling 	Technical	Scope
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Appendix 3 - Flood Warning Scope

