

Southampton to London Pipeline Project

Deadline 6

Signed SoCG with The Environment Agency
Application Document: 8.4.01

Planning Inspectorate Reference Number: EN070005

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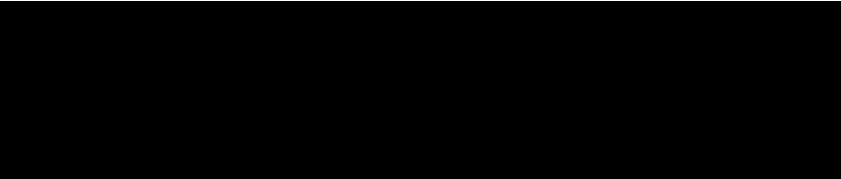
Southampton to London Pipeline Project

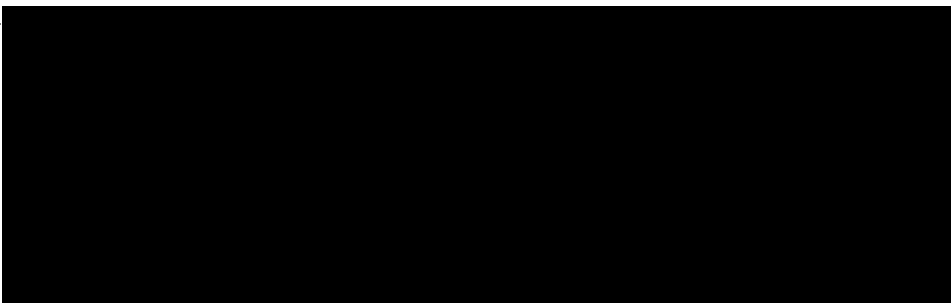
Statement of Common Ground Between: Esso Petroleum Company, Limited and the Environment Agency

Date: March 2020

Application Document Reference:



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On behalf of	Esso Petroleum Company, Limited
Date	05/03/2020

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1. Introduction

1.1 Purpose of Document

1.1.1 A Statement of Common Ground (SoCG) is a written statement prepared jointly by the applicant for a Development Consent Order (DCO) and another party. It sets out matters of agreement between both parties, as well as matters where there is not an agreement and matters which are under discussion.

1.1.2 The aim of SoCGs is to provide a clear record of the issues discussed and the stage each issue is at during the discussion. The SoCG can be used as evidence of these discussions in representations to the Planning Inspectorate as part of their examination of the DCO application.

1.2 Description of the Project

1.2.1 Esso Petroleum Company, Limited launched the Southampton to London Pipeline Project late in 2017. The project proposes to replace 90km of the 105km aviation fuel pipeline that runs from the Fawley Refinery near Southampton, to the West London Terminal storage facility in Hounslow. Esso recently completed the public consultation on their preferred route for the replacement pipeline. This was the project's second public consultation.

1.2.2 More information can be found on our website [www.slpproject.co.uk].

1.3 This Statement of Common Ground

1.3.1 This SoCG has been prepared in respect of the scheme by Esso Petroleum Company Limited (Esso) as the Applicant, and the Environment Agency as a prescribed consultee.

1.3.2 Esso is a brand of ExxonMobil, which has operated in the UK for over 120 years. In the early days ExxonMobil imported high quality lamp oil to the UK market. Today their focus on quality fuels remains, but operations are far more extensive. Esso owns and operates the UK's largest refinery at Fawley, which provides fuel for more than 800,000 retail customers every day at Esso-branded service stations. An underground distribution pipeline network transports fuel from Fawley to Esso's fuel terminals at Avonmouth, Birmingham, Hythe, Purfleet, West London and also for use at the UK's busiest airports.

1.3.3 The Environment Agency is an executive non-departmental public body, sponsored by the Department for Environment, Food and Rural Affairs with the stated purpose "to protect or enhance the environment, taken as a whole". Within England it is responsible for:

- Regulating major industry and waste;



- Treatment of contaminated land;
- Water quality and resources;
- Fisheries;
- Conservation and ecology; and
- Managing the risk of flooding from Main Rivers, reservoirs, estuaries and the sea.

1.3.4 Throughout this SoCG:

- Where a section begins 'matters agreed', this sets out matters that have been specifically agreed between the Environment Agency and Esso.
- Where a section begins 'matters not agreed', this sets out matters that are not agreed between the Environment Agency and Esso.
- Where a section begins 'matters subject to ongoing discussion', this sets out matters that are subject to further negotiation between the Environment Agency and Esso.

1.4 Structure of the Statement of Common Ground

1.4.1 This SoCG has been structured to reflect matters and topics of relevance to the Environment Agency in respect of the Southampton to London Pipeline Project.

- Section 2 provides an overview of the engagement to date between the Environment Agency and Esso.
- Section 3 provides a summary of areas that have been agreed.
- Section 4 provides a record of areas that have not yet been agreed.
- Section 5 provides a note of matters which are subject to ongoing discussion.
- Section 6 provides a record of relevant documents and drawings.

2. Record of Engagement Undertaken to Date

2.1 Pre-application Engagement and Consultation

2.1.1 The table below sets out the consultation that has been undertaken between Esso and the Environment Agency prior to the submission of the DCO application.

Date	Format	Topic	Discussion Points
04/12/2017	Letter	Project launch	Esso's Project Executive wrote to the Environment Agency to launch the project.
11/12/2017	Letter	Project launch	Esso's Project Executive wrote to the Environment Agency to introduce the project's Land Agents, Fisher German.
07/02/2018	Workshop	Project overview	Attended by Environment Agency Principal Planning Officer, Solent and South Downs Area, with others in attendance: <ul style="list-style-type: none"> • Scheme overview • Environmental constraints • Timescales and future engagement
19/03/2018	Letter	Corridor Consultation launch	Esso's Project Executive wrote to the Environment Agency to launch the corridor consultation.
27/03/2018	Information Sharing	Person with Interest in Land	Environment Agency's Estates Officer, completed a Person with Interest in Land questionnaire on behalf of the Environment Agency.
09/04/2018	Meeting	Groundwater/ Land quality/ Water quality	Environment Agency's Strategic Planning Specialist (Thames), Principal Planning Officer (Solent and South Downs Area), and three other EA officers: <ul style="list-style-type: none"> • Route optioneering • Pipeline construction and integrity • Scoping and survey strategy • Data requests • EIA approach • Environment Agency role going forward
25/04/2018	Letter	Environmental Survey Strategy	The Environment Agency wrote to Esso to provide detailed advice on the project's survey strategy. In addition, the EA stated that they were satisfied with the approach being taken to avoid sensitive groundwater

Date	Format	Topic	Discussion Points
			receptors whilst acknowledging that this would not be possible in all areas.
02/05/2018	Email	Ground investigation locations	The project sent the EA's Strategic Planning Specialist (Thames) and Principal Planning Officer (Solent and South Downs Area) draft proposed Ground Investigation locations covering all proposed corridors, by email for comment.
09/05/2018	Email	Ground investigation locations	EA replied to the email dated 02/05/2019 with a series of queries.
17/05/2018	Meeting	Surface water/ Flood risk/ Water Framework Directive	<p>Attended by the EA's Strategic Planning Specialist (Thames), Principal Planning Officer (Solent and South Downs Area) and five other EA officers:</p> <ul style="list-style-type: none"> • Project update • Data request • Survey strategy • Scoping • River Thames Scheme • Flood risk and surface water quality • Geomorphology, Water Framework Directive and Aquatic Ecology • Watercourse crossings
25/05/2018	Letter	Response to Route Corridor Consultation	<p>EA wrote to respond to the Corridor Consultation:</p> <ul style="list-style-type: none"> • Corridor preference • Key issues
30/05/2018	Letter	Preferred corridor announcement	Esso's Land and Pipeline Technical Lead wrote to the Environment Agency to announce the preferred corridor.
14/06/2018	Workshop	Initial Working Route Announcement	<p>Attended by EA's Principal Planning Officer (Solent and South Downs Area) with other organisations in attendance:</p> <ul style="list-style-type: none"> • Consultation feedback • Scoping • Initial Working Route • Cumulative effects with Heathrow Expansion • Survey methodology • Watercourse crossings • Ground investigation works

Date	Format	Topic	Discussion Points
			<ul style="list-style-type: none"> Water Framework Directive Assessment
27/06/2018	Letter	Initial Working Route	Esso's Land and Pipeline Technical Lead wrote to the Environment Agency to announce the Initial Working Route.
02/07/2018	Email	Ground investigation locations	The project sent EA responses to the queries received 09/05/2019.
09/07/2018	Meeting	Land quality and groundwater	<p>Attended by the EA's Strategic Planning Specialist (Thames)), Principal Planning Officer (Solent and South Downs Area) and Groundwater, Hydrology & Contaminated Land Technical Specialist (Thames):</p> <ul style="list-style-type: none"> Project update Data request Pipeline design, integrity and monitoring Land quality Groundwater – presentation of assessment approaches for water supplies and Groundwater Dependent Terrestrial Ecosystems (GWDTE)
23/07/2018	Email	Ground investigation locations	The EA provided detailed comments on the draft GI locations to reply to the project emails dated 02/05/2018 and 02/07/2018.
26/07/2018	Email	Scoping	The project emailed the EA's Strategic Planning Specialist (Thames) and Principal Planning Officer (Solent and South Downs Area) the submitted EIA Scoping Report, requested comment, and invited the EA to Scoping Workshops in August 2018.
24/08/2018	Consultation response	Response to Planning Inspectorate Scoping Consultation	<p>Environment Agency's consultation response to the Scoping consultation, provided via the Planning Inspectorate:</p> <ul style="list-style-type: none"> Route Construction techniques Ecology Flood risk Groundwater Habitat Regulations Assessment
24/08/2018	Email	Ground investigation locations	Project responded to the EA response dated 23/07/2018.

Date	Format	Topic	Discussion Points
31/08/2018	Teleconference	Land quality	Phone call between the project and Rob Devonshire, EA Thames Region permitting team, to discuss: <ul style="list-style-type: none"> • Thames region permitting • Authorised and historic landfills • Mineral waste permitting
06/09/2018	Letter	Preferred route consultation launch	Esso's Land and Pipeline Technical Lead wrote to the Environment Agency to launch the Preferred Route Statutory Consultation.
06/09/2018	Meeting	Water Framework Directive/ Geomorphology/ Aquatic ecology	Attended by the EA's Strategic Planning Specialist (Thames), Principal Planning Officer (Solent and South Downs Area), the Fisheries & Biodiversity Officer (Thames), and Planning Advisor (Solent & South Downs): <ul style="list-style-type: none"> • Project update • Data request • Scoping Opinion • Surface water • Construction methodology • Aquatic ecology • Geomorphology
12/09/2018	Meeting	Flood Risk Assessment	Attended by EA's Strategic Planning Specialist (Thames) and Technical Specialist – Flood Risk Assessment (Thames): <ul style="list-style-type: none"> • Project update • Scoping Opinion • Flood Risk Assessment (FRA) methodology
18/09/2018	Email	Ground investigation locations	EA provided advice to respond to project email dated 24/08/2019.
16/10/2018	Consultation response	Response to preferred route consultation	<ul style="list-style-type: none"> • Crossing techniques • Biodiversity • Flood risk
11/10/2018	Meeting	River Thames Scheme	Meeting attended by SLP project with two EA staff and two EA-appointed consultants, to discuss routeing of and interactions between the SLP and RTS projects.
19/11/2018	Meeting	Herts & North London area	Attended by EA's Strategic Planning Specialist (Thames) and five other EA officers:

Date	Format	Topic	Discussion Points
			<ul style="list-style-type: none"> • Land quality and groundwater - presentation of dewatering assessment methodology at river crossing points • Aquatic ecology and geomorphology • FRA
24/01/2019	Meeting	Flood Risk Assessment	<p>Attended by Strategic Planning Specialist (Thames) and two other EA officers: Draft FRA Report contents and conclusions:</p> <ul style="list-style-type: none"> • Programme for Environment Agency pre-application review of Draft FRA Report • FRA approach and assessment criteria • Potential effects and proposed mitigation • Floodplain storage • Design refinements • Role of Lead Local Flood Authorities <p>Also discussed:</p> <ul style="list-style-type: none"> • Protected provisions • Biodiversity enhancement
11/02/2019	Meeting	Thames FAS	Meeting with Brett Aggregates and the EA re. any interaction with Thames Flood Alleviation Scheme (FAS).
14/02/2019	Consultation response	Response to design refinement consultation	<ul style="list-style-type: none"> • Construction methodology • Permitted landfills and regulated facilities • Temporary logistics hubs
Feb – May 2019	Correspondence	Land interests, Draft DCO and Protective provisions	Various correspondence between SLP and the EA in relation to land interests, the Draft Development Consent Order and Protective provisions.
20/03/2019	E-mail	Two areas of EA land interest	E-mail from SLP project to EA with two areas of EA land interest.
28/03/2019	Correspondence	Final route release	The project issued a letter to the EA announcing the final route and offering a meeting if required.

Date	Format	Topic	Discussion Points
29/03/2019	Letter	FRA update meeting, Cove Brook FSA	Letter from EA's Strategic Planning Specialist (Thames): <ul style="list-style-type: none"> Agreed the minutes of FRA meeting 24/01/2019; Comments on proposal to cross Cove Brook Flood Storage Area (FSA), including crossing method and storage of materials.
03/04/2019	Consultation response	Response to Draft FRA	Email from EA's Strategic Planning Specialist (Thames) with comments on the Draft FRA, including: <ul style="list-style-type: none"> Specific flood risk comments; Fisheries and biodiversity.
02/05/2019	Site visit	Cove Brook FSA	Site visit to Cove Brook FSA for project team with two EA officers to discuss issues arising from the proposed crossing of the FSA and embankment dam.
13/05/2019	E-mail	EA land interest issues	E-mail from EA to SLP project responding to EA land interest issues.

2.2 Engagement Following Submission of Application

2.2.1 The table below sets out the consultation that has been undertaken between Esso and the Environment Agency since the submission of the DCO application.

Date	Format	Topic	Discussion Points
19/06/2019	E-mail	Borehole drilling query for Littleton Lane	E-mail from SLP project to EA with borehole drilling query for Littleton Lane, Shepperton, Brett Aggregates (landfill) site.
12/07/2019	Letter	Permit variation	Letter (ref: WA/2019/126850/01-L01) from EA to SLP Project. Permit variation yet to be agreed between EA and operator (CQA Plan not agreed).
29/07/2019	Meeting	Relevant Representations, Statement of Common Ground	Meeting to discuss EA comments on the Application and SOCG.
16/08/2019	Meeting	River Thames Scheme interaction meeting	Representatives for EA, Esso and Bretts Aggregates regarding River Thames Scheme interaction.

Date	Format	Topic	Discussion Points
19/09/2019	Meeting	Relevant Representations, Statement of Common Ground	Meeting to discuss EA comments on the Application and progress a SOCG, including: <ul style="list-style-type: none"> • Cove Brook Flood Storage Area • River Thames Scheme • Legal matters • Flood risk • Groundwater and land contamination, including active landfill permitting • Biodiversity and fisheries
11/10/2019	Email	Minutes of Meeting and SoCG	Email – SLP project to EA: Minutes of 19 September 2019 meeting, six Technical Notes and the draft SoCG.
4/11/2019	Telephone call	Protective Provisions	Call by the EA to SLP project. Legal discussions surrounding the protective provisions within the draft DCO.
13/11/2019	Letter	Protective Provisions	Environment Agency's proposed amendments to the protective provisions within the draft DCO.
29/11/2019	Meeting	Flood risk and Biodiversity	Meeting to discuss the following flood risk issues: <ul style="list-style-type: none"> • Cove Brook • Stockpiles in high risk areas • Compounds in Flood Zone 3 Also, to discuss watercourses where fish may be present.
12/12/2019	Meeting	Water Framework Directive	Meeting to provide final clarification on the Water Framework Directive.
27/01/2020, 29/01/2020	Emails	SOCG, Water Framework Directive	Emails relating to the draft SOCG. EA also supplied data on non-Heavily Modified Water Bodies (HMWB) mitigation measures to the project for consideration.
30/01/2020	Site visit	Fish	Site visit and meeting at five locations where the project crosses watercourses where fish may be present.
11/02/2020	Conference call	Protective provisions	Call to discuss outstanding matters relating to protective provisions.
13/02/2020	Conference call	Flood risks	Call to discuss outstanding matters relating to flood risks.
14/02/2020	Meeting	Landfill permitting	Meeting to discuss landfill permitting with the EA and a landfill operator along the route.

2.2.2 Although not considered to be an examination issue, the Parties will continue to engage on the voluntary Environmental Investment Programme and intend for the broad scope of this programme to be agreed shortly.

3. Matters Agreed

3.1.1 The table below sets out the matters agreed in relation to different topics:

Examining Authority's suggested theme	Ref	Topic	Matter agreed
Development Consent Order	EA-DCO-01	Route	That, when considering all factors, the selection of the final pipeline Order Limits are appropriate.
Water environment effects, including flood risk and effects on flood alleviation and storage schemes, watercourses and waterbodies, and drainage matters	EA-WEE-01	Watercourse crossings	That the Environment Agency has had the opportunity to influence decisions regarding watercourse crossing techniques.
Water environment effects	EA-WEE-02	Watercourse crossings	That the Environment Agency agrees with the Project's proposals to use trenchless crossing techniques at the Ford Lake Stream, River Wey, Basingstoke Canal SSSI, River Blackwater, Cove Brook, Halebourne, River Thames, Queen Mary Reservoir Intake Canal, Staines Reservoir Aqueduct, and also at the Chertsey Bourne and River Ash.
Water environment effects	EA-WEE-03	Watercourse crossings	That the commitment to only utilise a 10m width when crossing through boundaries between fields where these include hedgerows, trees or watercourses (O1) is appropriate.
Flood Risk Assessment	EA-FRA-01	Cove Brook Flood Storage Area	That the Environment Agency agrees with the Project's decision to use trenchless crossing techniques to cross the dam at the Cove Brook Flood Storage Area, and that agreement will be required on the detailed proposals prior to construction.
Flood Risk Assessment	EA-FRA-02	Flood Risk Assessment – climate change	Following the changes to the number and location of logistics hubs, the EA are

			satisfied that there are no outstanding concerns relating to the treatment of climate change in the assessment for fluvial and pluvial flood risk during construction.
Flood Risk Assessment	EA-FRA-03	Flood Risks – impacts	That the operational phase of the development will have no impact on fluvial flood risk.
Flood Risk Assessment	EA-FRA-04	Flood Risks – impacts	That the storage of excavated material and the location of launch and reception pits for trenchless crossings have been located outside of Flood Zone 3 where possible.
Biodiversity and fisheries	EA-BIO-01	Aquatic ecology	<p>That open cut methods for crossing four watercourses would be acceptable, subject to Commitment G171 being amended to:</p> <p>The ditch leading to the tributary of the River Hamble (WCX006) would be subject to constraints between 1st October to 15th May. The tributary of the River Hamble (WCX007) would be subject to constraints from 1st October to 31st December and 15th March to 15th May providing a redd survey is undertaken downstream at the end of December or beginning of January and no redds are found; should redds be found then the full timing restriction of 1st October to 15th May will be required. The Caker Stream (WCX012) and Ryebidge Stream (WCX021) would be subject to constraints between 1st October to 28th February. The tributary of the Cove Brook (WCX047) would be subject to constraints between 15th March and 15th June. Any open cut crossing or in-channel works will only take place outside of the stated exclusion period. All dates are inclusive.</p>
Land contamination and groundwater including source protection zones, groundwater dependent ecosystems, and existing landfill	EA-LCG-01	Groundwater assessment - GWDTEs, Source Protection Zones, Working at depth	That the methodologies used for the prediction and assessment of effects of the project on Groundwater Dependent Terrestrial Ecosystems (GWDTEs), Source Protection Zones and in relation to working at depth, are appropriate.

Land contamination and groundwater including source protection zones, groundwater dependent ecosystems, and existing landfill	EA- LCG-02	Groundwater assessment, EIA and Ground Investigations	That the groundwater assessments and ground investigations have been provided to the satisfaction of the Environment Agency.
The effectiveness of mitigation measures including the content of the Construction Environmental Management Plan, Code of Construction Practice and Register of Environmental Actions and Commitments	EA- MTG-01	Mitigation measures	That the Environment Agency agrees that suitable environmental mitigation measures have been committed to by the project. That the commitments will be secured by DCO Article 5 Code of Construction Practice and Article 6 Outline Construction Environmental Management Plan. That both of these documents have been updated at DCO Deadline 4 to include specific additional commitments requested by the Environment Agency.
Environmental permits, consents and licences	EA- EPC-01	Protective provisions	<p>That the protective provisions are agreed subject to final confirmation on the mitigation relating to Flood Zone 3.</p> <p>That the EA agrees to the provisions set out in Article 35 (Application, exclusion and modification of legislative provisions) as respects legislation it is responsible for.</p>
Environmental permits, consents and licences	EA- EPC-02	Permits	<p>That the EA agrees with the approach taken by the Applicant to crossing permitted landfill sites.</p> <p>The EA agrees that Home Farm will require a permit variation from the permit owner and has agreed to the submitted reports that the Applicant has undertaken to provide to support this variation.</p> <p>The EA agrees that Laleham and Littleton Landfills will require submission of a single Construction Quality Assurance plan to cover both sites and that permit variation is not required.</p>



<p>Enhancement measures</p>	<p>EA-EMS-01</p>	<p>Environmental Investment Programme</p>	<p>That although not considered to be an Examination issue, the Parties will continue to engage on the voluntary Environmental Investment Programme and intend for the broad scope of this programme to be agreed shortly.</p>
<p>Water Framework Directive compliance</p>	<p>EA-WFD-01</p>	<p>Water Framework Directive Compliance Assessment</p>	<p>The EA provided data on 27 January 2020 in relation to Water Framework Directive non-HMWB mitigation measures. The project provided a Technical Note to respond on 11 February 2020. Following the further assessment and discussion with the Applicant, the EA have no outstanding questions or issues in relation to the Water Framework Directive Compliance Assessment (ES Appendix 8.6, Application document APP-107).</p>



4. Matters Not Agreed

4.1.1 The table below sets out the matters not agreed in relation to different topics.

Topic	Matter not agreed

5. Matters Subject to On-going Discussion

5.1.1 The table below sets out the matters subject to ongoing discussion.

Examining Authority's suggested theme	Ref	Topic	Matter subject to ongoing discussion
Water environment effects, including effects on flood alleviation schemes	EA-WEE-02	River Thames Scheme	<p>The interaction between the SLP project and the Environment Agency's River Thames Scheme is subject to ongoing detailed discussions between the Environment Agency and the project.</p> <p>The SLP project is undertaking a ground investigation and will submit further information to the EA on engineering options and potential costs in relation to the interaction of the two projects. The SLP project aims to reach agreement with the EA through further negotiations.</p>
Flood Risk Assessment	EA-FRA-05	Flood Risk Assessment – soil storage durations in FZ3	<p>The SLP project and the EA are still discussing soil storage durations within Flood Zone 3.</p> <p>The SLP project provided a Technical Note to the EA on 25 February 2020 to respond to the EA's further queries and there are ongoing discussions on this.</p>

6. Relevant documents and drawings

6.1 List of relevant documents and drawings

The following is a list of documents and drawings upon which this Statement of Common Ground is based.

Application Reference	Title	Content	Date
APP-048	Environmental Statement (ES) Chapter 8 Water	Report of the Environmental Statement	14 May 2019
APP-062	Environmental Statement Chapter 8 Figures	Illustrative material to support the Environmental Statement	14 May 2019
APP-102	ES Appendix 8.1 Groundwater Baseline	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-103	ES Appendix 8.2 Detailed Trenchless and Targeted Trench Assessments	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-104	ES Appendix 8.3 Groundwater Dependent Terrestrial Ecosystems	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-105	ES Appendix 8.4 Groundwater Abstraction Assessment	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-106	ES Appendix 8.5 Potential Effects on Groundwater	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-107	ES Appendix 8.6 Water Framework Directive Compliance Assessment	Additional data and evidence to support the Environmental Statement	14 May 2019
APP-134	Flood Risk Assessment	Flood Risk Assessment	14 May 2019
N/A	Technical Note: Environment Agency – Works within Flood Zone 3	Additional information submitted to the Environment Agency to support the SoCG.	October 2019
N/A	Technical Note: Environment Agency – Crossing Assessments	Additional information submitted to the Environment Agency to support the SoCG.	October 2019
N/A	Technical Note: Environment Agency – Source Protection Zone Assessment	Additional information submitted to the Environment Agency to support the SoCG.	October 2019
N/A	Technical Note: Environment Agency – Groundwater Dependent Terrestrial Ecosystems Assessment and Private Supplies	Additional information submitted to the Environment Agency to support the SoCG.	October 2019

Application Reference	Title	Content	Date
N/A	Technical Note: Environment Agency - Fish	Additional information submitted to the Environment Agency to support the SoCG.	October 2019
N/A	Technical Note: Environment Agency – Working at Depth	Additional information submitted to the Environment Agency to support the SoCG.	October 2019
REP2-010	ES Appendix 16.1 Code of Construction Practice	Additional data and evidence to support the Environmental Statement – updated at Deadline 2, including to secure the trenchless crossing of Cove Brook Flood Storage Area	November 2019
REP2-012	Deadline 2 Submission - 8.4.01 - Signed SoCG with The Environment Agency	A signed Statement of Common Ground with the Environment Agency reflecting the positions of the SLP project and the EA at Deadline 2.	November 2019
REP2-065	Environment Agency Written Representation	Outstanding issues and queries from the Environment Agency at Deadline 2 regarding the SLP project.	November 2019
REP3-022	Deadline 3 Submission - 8.29 - Change Request - Temporary Logistics Hubs	The Applicant's formal written request for a change to the number of temporary logistics hubs required to support the main construction works.	December 2019
REP4-012	Deadline 4 Submission - 6.4 - Appendix 16.1 - Code of Construction Practice (clean) - Revision No. 3.0	The Applicant's additional submission in response to further written questions.	January 2020
REP4-036	Deadline 4 Submission - 8.51 - Outline Construction Environmental Management Plan (CEMP) - Revision No 1.0	The Applicant's additional submission in response to further written questions.	January 2020
REP4-038	Deadline 4 Submission - 8.51 - Appendix B: Outline Water Management Plan - Revision No. 1.0	The Applicant's additional submission in response to further written questions.	January 2020
REP4-059 REP4-060	Environment Agency - Deadline 4 Submissions	The Environment Agency's Response to the Examining Authority's written questions and requests for information, and submission on Protective Provisions.	January 2020
N/A	Technical Note: Environment Agency – Water Framework Directive	Additional assessment of whether the project would compromise the abilities of non-Heavily Modified Water Bodies achieving future objective status using data provided by the Environment Agency.	February 2020
N/A	Technical Note: Environment Agency – Works within Flood Zone 3	Additional information to clarify flood risk matters in response to queries from the Environment Agency	February 2020





1 Technical Note 2: Environment Agency – Works within Flood Zone 3

1.1 Introduction

- 1.1.1 The Southampton to London Pipeline Project ('the project') submitted an application for Development Consent, including a supporting Environmental Statement (ES) and Flood Risk Assessment (FRA) in May 2019. Through the discussions on the Statement of Common Ground (SOCG), the Environment Agency has asked for clarification regarding the works within Flood Zone 3 (FZ3).
- 1.1.2 The Applicant has produced a number of outline plans that have been submitted into the examination process. These include the Outline Construction Environmental Management Plan (CEMP) (**REP4-036**) which includes Appendix B Outline Water Management Plan (WMP) (**REP4-038**). The Outline CEMP and appendices will be certified during examination and the final CEMP will be in accordance with the Outline CEMP (Requirement 6). Appendix B (WMP) will be issued to the Environment Agency for consultation in accordance with Requirement 6.

1.2 Construction Compounds

- 1.2.1 The assessment of construction compounds is set out in Appendix D of the FRA (**Application Document APP-134**) and is summarised in Section 7 and Section 13 in relation to fluvial flood risk. As stated in paragraph 3.4.29 of ES Chapter 3 (**Application Document APP-043**) 'Approximately 52 temporary compounds would be established along the route of the new pipeline. The compounds are at frequent locations along the Order Limits and each compound would serve a small part of the working length'. Following the installation of each section of the pipeline the compound will be removed.
- 1.2.2 For all compounds there is no land raising anticipated as part of their formation. As stated in Section 3.2.8 of the FRA (**Application Document APP-134**), the project design is that existing permeable areas within the temporary compounds would remain permeable and would not include a positive drainage system.
- 1.2.3 Vehicles and plant will be readily moved from compounds in a flood event.
- 1.2.4 As stated in Section 13.2.3 of the FRA (**Application Document APP-134**), three construction compounds were identified to be located within FZ3 within Appendix D of the FRA. The project has made the following commitments in relation to these compounds which are secured through the Outline WMP:
- Frimley Green Road (DCO Works No. CO-5A): This compound is partially within FZ3 along its northern boundary (17.5m² which is 1% of the total compound area which is approximately 1,400m²). Commitment W15, found in the Outline WMP (**REP4-038**), states '*Frimley Green Road Construction Compound would be sized and located so that it does not sit within FZ3 or within 8m of the top of bank of the watercourse*'.



- Mead Lane (DCO Works No.CO-5N): The predicted River Thames 1% AEP level provided by the Environment Agency is 12.25m AOD. The minimum elevation from LiDAR is 11.28m AOD. Therefore, to raise the temporary buildings above the 1% AEP peak water level would require them to be raised up to a maximum of 1.0m above ground level. Commitment W16, found in the Outline WMP (**REP4-038**) states, ‘*The project would raise temporary buildings to a maximum of 1m above ground level which is above the 1%AEP (1:100 year) event at the Mead Lane Construction Compound DCO*’.
- Shepperton Road North (DCO Works no CO-5P): The predicted 1% AEP level provided by the Environment Agency is 12.48m AOD. The minimum elevation from LiDAR is 10.70m AOD. However, the site lies on a slope, with parts of the compound lying outside of the 1% AEP level. Commitment W16, found in the Outline WMP (**REP4-038**), states ‘*The project would locate any temporary buildings outside of FZ3 at the Shepperton Road North Construction Compound (DCO Works No 5P)*’.

1.3 General Works within Flood Zone 3

- 1.3.1 The FRA (**APP-134**) was submitted as part of the application for Development Consent. This assessed the impacts of the proposed project on flood risk.
- 1.3.2 Table 7.5 of the FRA (**APP-134**), provides further assessment of the impact of topsoil and subsoil where the unmitigated risk of increasing flood risk to receptors has been assessed as either Medium or High (i.e. the Ively Brook, Cove Brook, River Ash and River Thames as High risk and the Windle Brook as Medium risk).
- 1.3.3 Table 1 summarises the existing commitments relevant to the works in FZ3, which are all secured through Requirement 6, Construction Environmental Management Plan (CEMP) through their inclusion in Outline CEMP Appendix B – Outline Water Management Plan (**REP4-038**).

Table 1: Project Commitments and Securing Mechanism

Ref	Measure Description
G123	All works within or adjacent to watercourses would be carried out in accordance with the requirements of permits and licences agreed with either the Environment Agency or relevant Local Lead Flood Authority or in accordance with the provisions of the DCO.
G124	All construction activities within Flood Zone 3 would be undertaken in a manner that reduces any significant increase in flood risk. This may include providing suitable breaks within spoil piles.
G125	With the exception of the Thames flood plain, all construction compounds would be located outside of flood zone 3.
G127	The contractor(s) would subscribe to the Environment Agency’s Floodline service which provides advance warning of potential local flooding events and subscribe to the Met Office’s Weather Warnings email alerts system and any other relevant flood warning information. The contractor(s) would implement a suitable flood risk action plan which would include appropriate evacuation procedures should a flood occur or be forecast.
G184	Stockpiles would not be located within 10m of any main rivers or ordinary watercourse crossings
G185	Temporary haul and access road construction material within Flood Zone 3 and areas of High and Medium Risk of Flooding from Surface Water (RoFSW) would be removed at the end of the construction phase and the ground surface would be re-instated to pre-project levels.

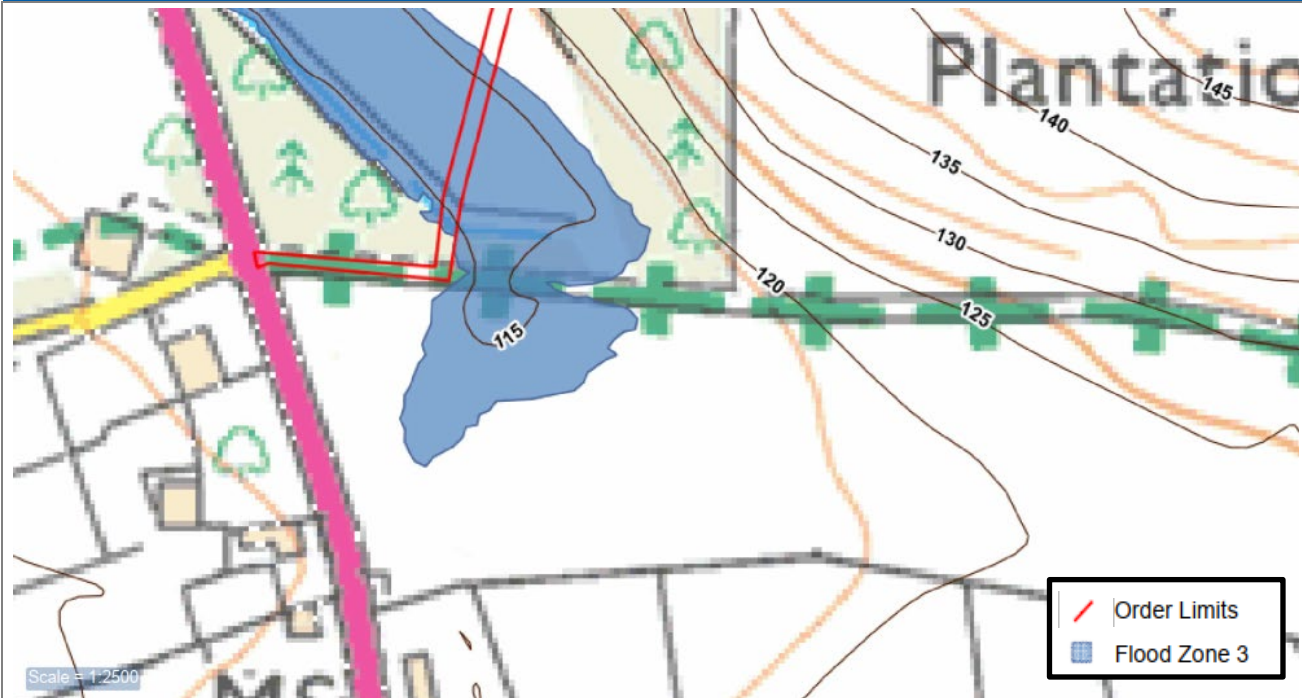


Ref	Measure Description
W1	The extent of Flood Zone 3 and areas of RoFSW would be identified and marked where appropriate.
W2	Screening and fencing within logistics hubs and construction compounds would be designed to reduce the impedance of flood water. This would be subject to any commitments regarding great crested newts.
W3	Temporary buildings within Flood Zone 3 and areas of High and Medium RoFSW would be elevated above the 1 in 10 (10%) annual exceedance probability event peak water level, or a minimum of 300mm if this is not practicable.
W4	Afflux at temporary main rivers and ordinary watercourse crossings would be maintained at less than 100mm.
W5	Topsoil and subsoil would be stockpiled for as short a duration as practicable within Flood Zone 3 and areas of High and Medium RoFSW.
W6	Stockpiles in Flood Zone 3 or areas of High or Medium RoFSW would not exceed 10m between breaks. Breaks in between stockpiles would be at least 1m. Breaks would be located opposite each other on either side of the excavation where practicable.
W7	Stockpiles would not be stored within Ively Brook Flood Zone 3, east of A327.
W8	Works in the Cove Brook flood storage area would be scheduled taking advantage of long-term forecasts making use of dry weather conditions.
W15	Construction Compound 33 (DCO Works No CO5A) would be sized and located so that it does not sit within FZ3 or within 8m of the top of bank of the watercourse.
W16	The project would raise temporary buildings to a maximum of 1m above ground level which is above the 1%AEP (1:100 year) event at the Mead Lane Construction Compound DCO (Works No 5N).
W17	The project would locate any temporary buildings outside of FZ3 at the Shepperton Road North Construction Compound (DCO Works No 5P).
W19	There would be no land raising undertaken in locations identified as Flood Zone 3.

1.3.4 Table 2 outlines the assessment for each location of FZ3 within the Order Limits where FZ3 extends further than 10m from the watercourse and is therefore not covered by existing Commitment G184 and / or Protective Provisions. Areas of Flood Zone 3 crossing by trenchless techniques are not included.

Table 2: Initial Assessment of FZ3 Locations (Contains OS data © Crown copyright and database right (2020) OS Licence Number AL100005237)

Lavant Stream - W008 (Work Plan 19 - Grid Ref: 470533, 135522)



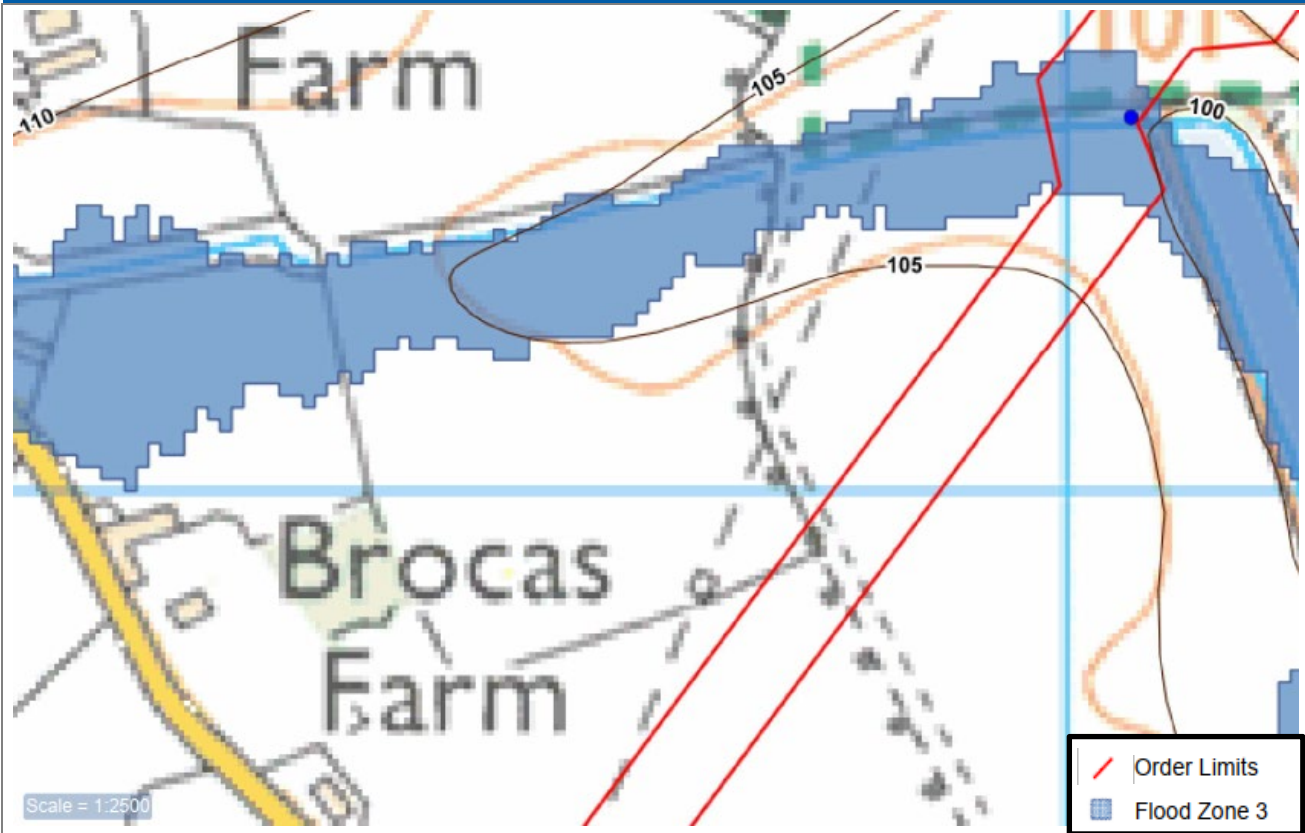
- This section of the Order Limits is for a haul road from the A32 to the pipeline installation area. Therefore material storage in this location will only comprise topsoil removal for formation of the haul road (3.5m wide and 0.3m deep).
- North of the Lavant Stream, FZ3 is approximately 80m wide. In line with commitment G184, soil would only be stored in 70m width of FZ3. This will involve 84m³ of topsoil storage and in line with commitment W6 this would result in a topsoil stockpile height of approximately 0.7m (assuming 1:3 side slopes).
- South of the watercourse FZ3 is approximately 5m wide and in line with commitment G184, no topsoil would be stored there.
- The nearest receptor upstream are properties adjacent to the A32 in Lower Farrington 170m to the south.

Tributary to the River Wey - WCX018 (Work Plan 22 - Grid Ref: 474634, 140624)



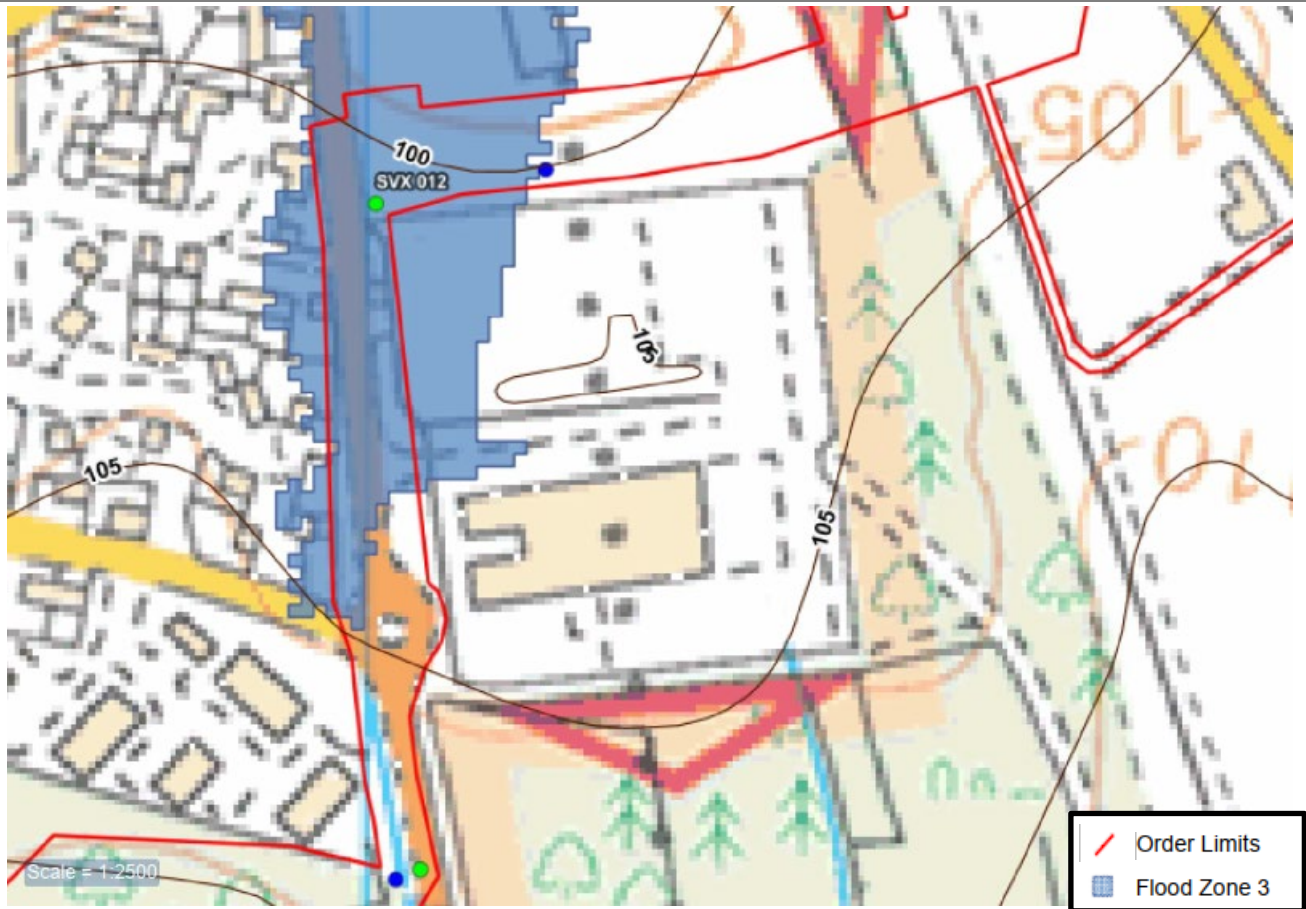
- FZ3 is approximately 50m wide within the Order Limits at this location.
- In line with commitment G184, soil would only be stored in a 25m width of FZ3 on the southern side of the watercourse. Upstream of this location is very rural, with no nearby receptors. Therefore, as indicated in Table 7.4 of the FRA there is a low risk of soil stored within FZ3 increasing flood risk to other receptors and no detailed assessment of soil stockpile volume has been made.

Tributary to the River Wey - W111 (Work Plan 25 - Grid Ref: 477012, 144156)



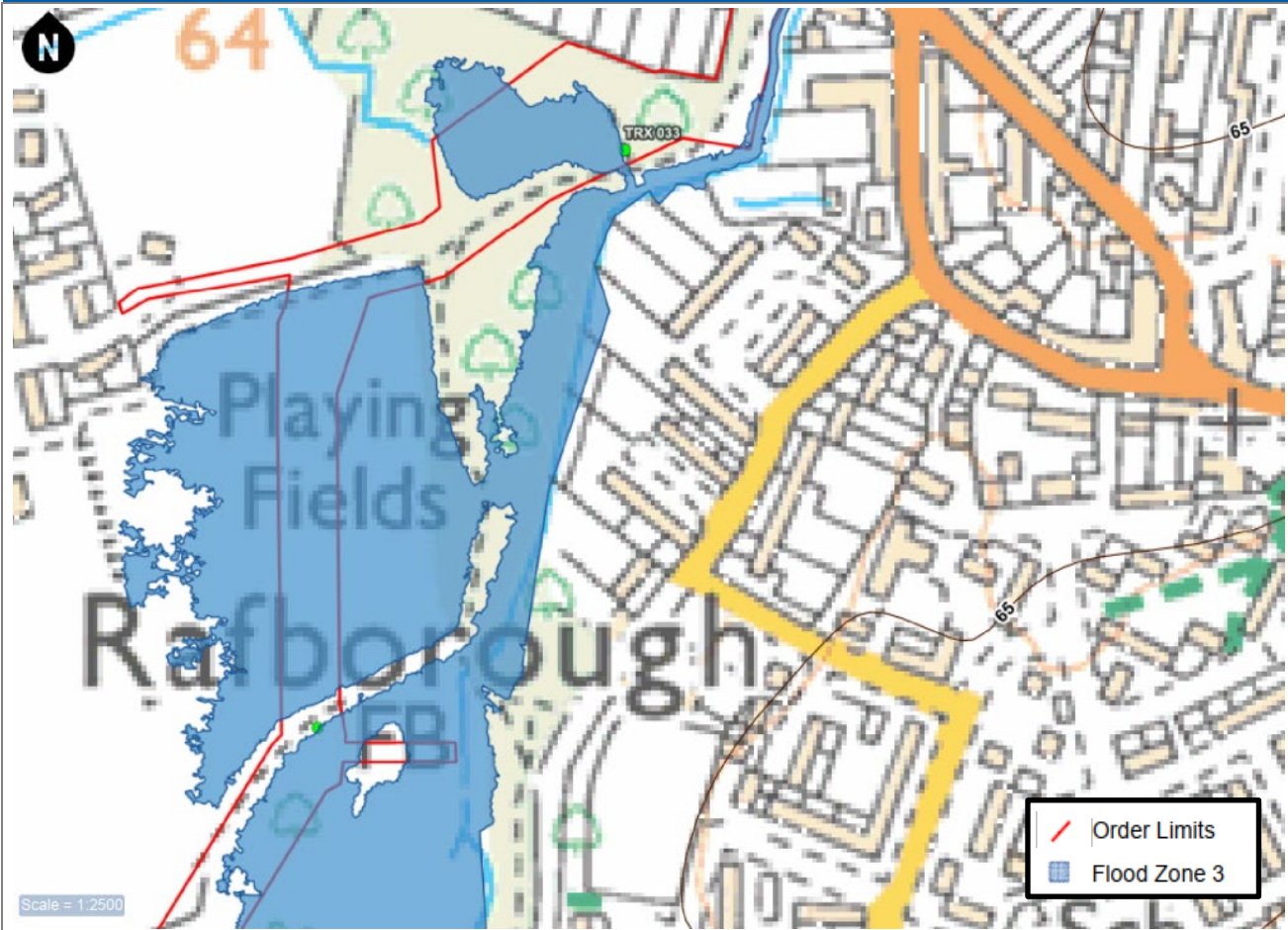
- FZ3 is approximately 55m wide within the Order Limits at this location.
- In line with commitment G184, soil would only be stored in a 35m width of FZ3 to the south of the watercourse.
- Upstream of this location is very rural, with no nearby receptors. The nearest upstream property is approximately 8m higher than the Order Limits. Therefore, as indicated in Table 7.4 of the FRA there is a low risk of soil stored within FZ3 increasing flood risk to other receptors and no detailed assessment of soil stockpile volume has been made.

Church Crookham (Beacon Hill Road) - W036a (Work Plan 102 -Grid Ref: 481997, 151753)



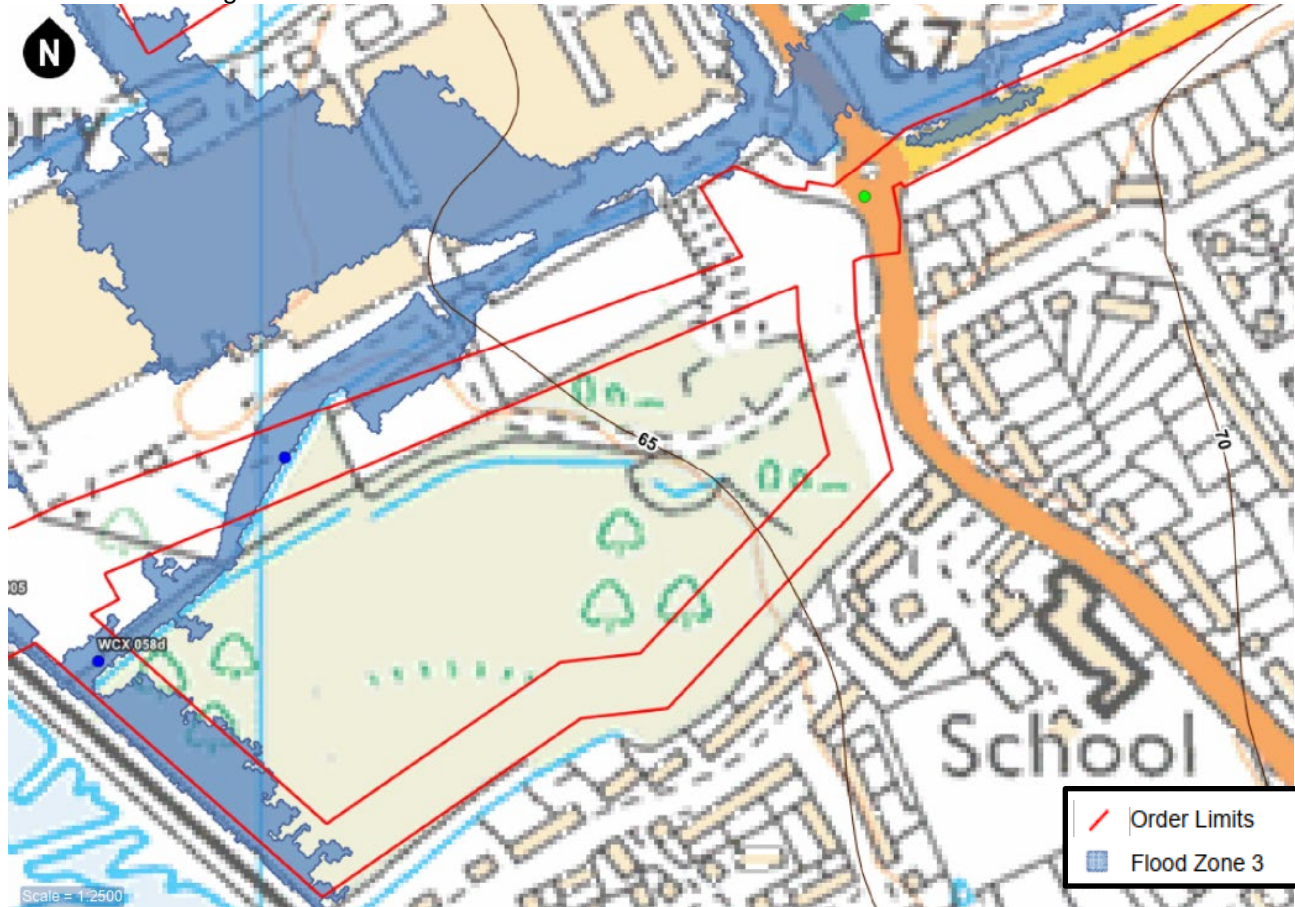
- FZ3 is approximately 260m wide within the Order Limits at this location.
- 170m is street works and as such there is no soil that needs to be stockpiled, as all excavated material would be taken offsite (see Section 2.8.8 of ES Appendix 16.1 Code of Construction Practice (CoCP) (**REP4-012**)).
- The remaining 90m is a sports pitch and the only area that would require topsoil and subsoil to be removed is from the trench, which is approximately 600mm wide (Section 2.13 of the CoCP – **REP4-012**). The stockpiles will only be present for the time at which the trench is open.

Cove Brook Flood Storage Area (Work Plan 33 and 34 - Grid Ref 485434, 155440)



- FZ3 is approximately 90m wide within the Order Limits in the southern section.
- FZ3 is approximately 210m wide within the Order Limits in the central section.

- The northern section of FZ3 will be crossed via trenchless techniques as it passes underneath the Cove Brook Flood Storage Area control structure.

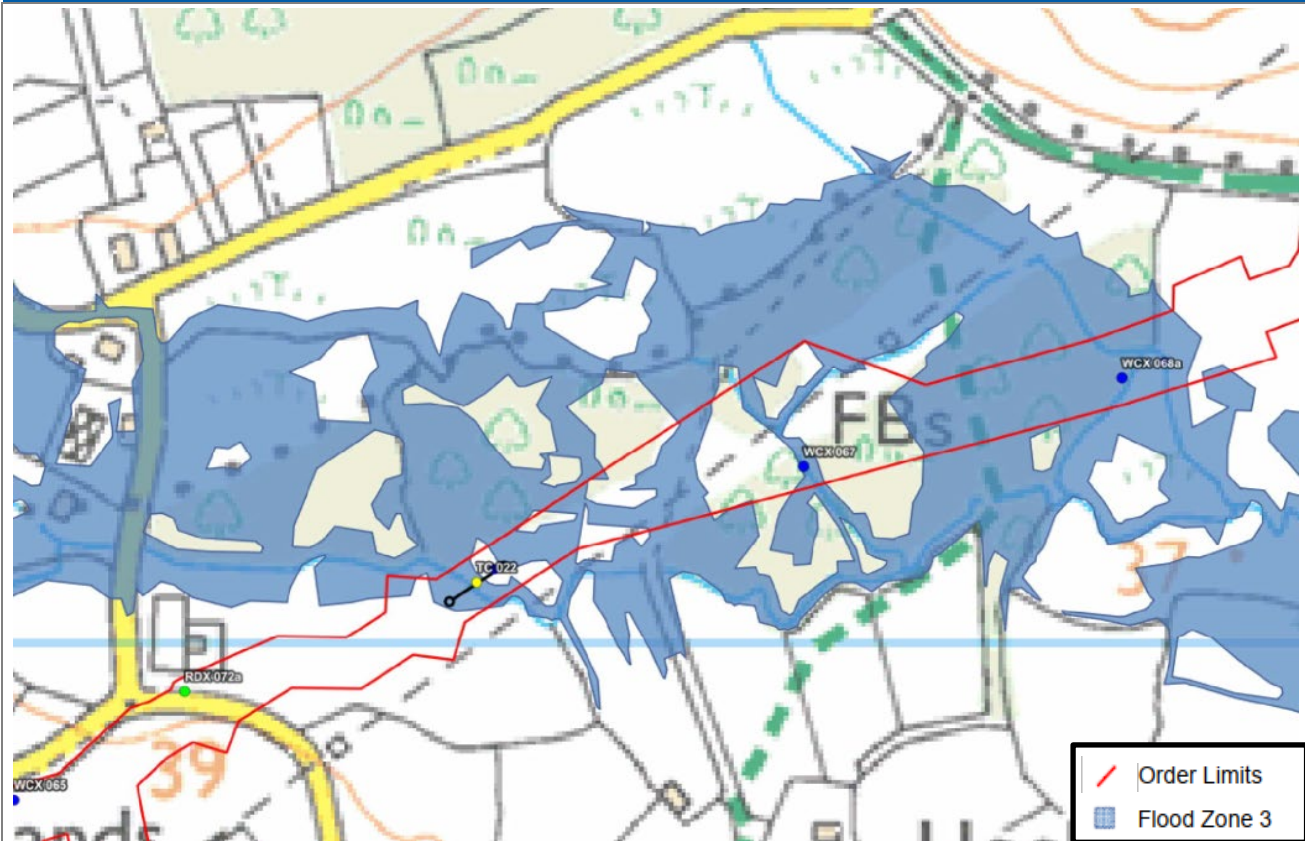


- The Applicant has included a new commitment which states that no excavated topsoil will be stored within the Cove Brook Flood Storage Area boundary. Therefore, the only storage of material in FZ3 will be subsoil from the trench while the pipe is installed. This comprises 234m³ (0.6m wide x 1.3m deep) over a 300m length of FZ3 in the southern and central sections which would result stockpiles of approximately 0.6m high. These stockpiles will only be present for the time at which the trench is open.

SC Johnson & Balmoral Drive - WCX058 (Work Plan 109 and 110 - Grid Ref: 488002, 157411)

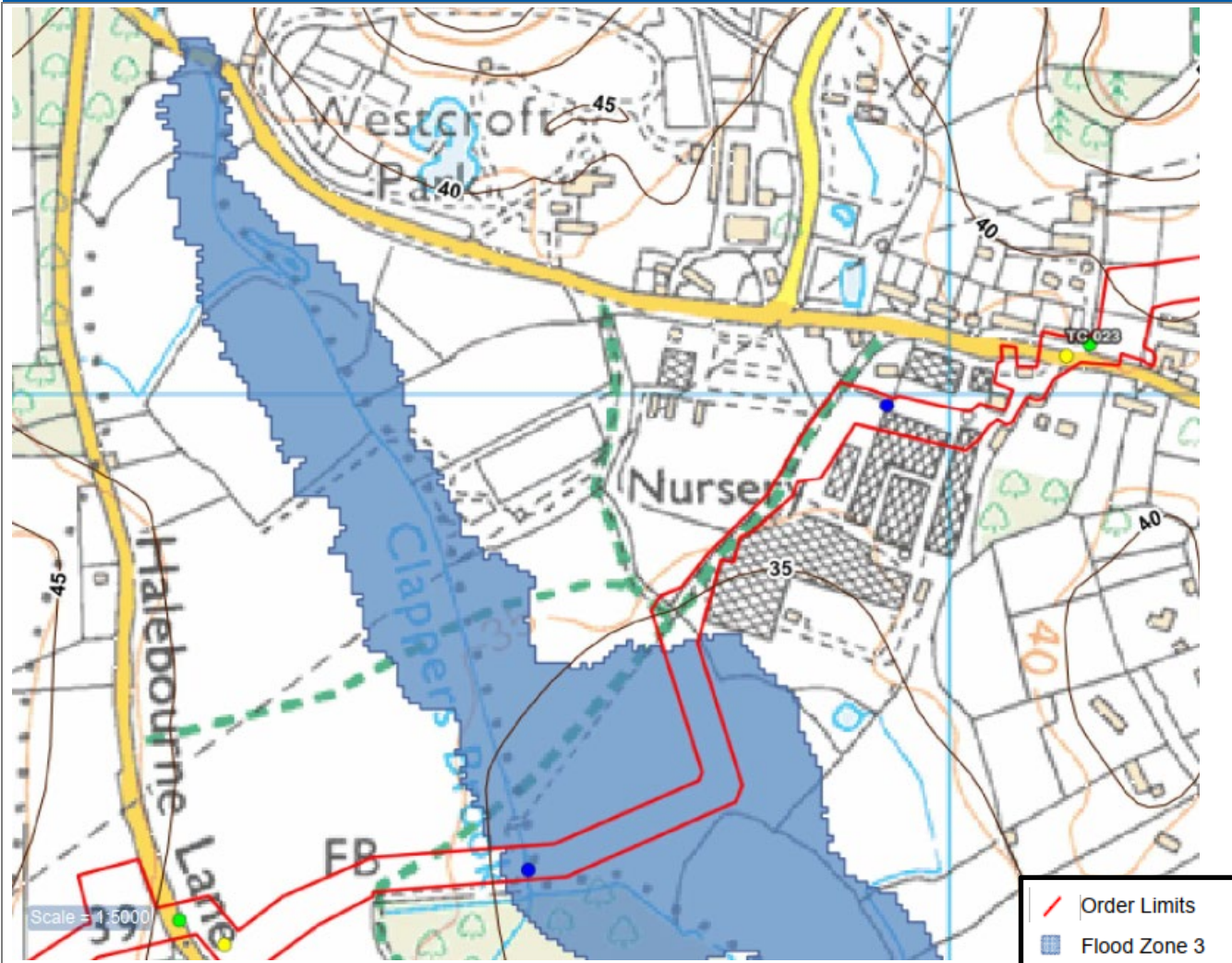
- At WCX058d FZ3 is 15m wide within the Order Limits and in line with commitment G184, no soil would be stored in FZ3 at this location.
- South of WCX058d is a 136m wide area of FZ3 that is crossed by the Order Limits in an area of woodland. Woodland working would only require the stripping of topsoil and subsoil over the pipeline trench (see Section 2.10.5 in the CoCP – **REP4-012**), therefore, the only storage of material in FZ3 will be soil from the trench while the pipe is installed. This comprises 106m³ (0.6m wide x 1.3m deep) over the 136m length of FZ3 which would result stockpiles of approximately 0.6m high. These stockpiles will only be present for the time at which the trench is open.
- FZ3 is approximately 25m wide at WCX058b. However, this area will only be used for stringing out for the trenchless crossing beneath the Blackwater valley and no soil stripping is required.
- FZ3 is approximately 60m wide where it is crossed by the Order Limits along Balmoral Drive. The Order Limits are along the road (street works) and as such there is no soil that needs to be stockpiled (see Section 2.8.8 in the CoCP – **REP4-012**).

Windle Brook - WCX066, WCX067 & WCX068 (Work Plan 41 - Grid Ref: 494612, 162102).



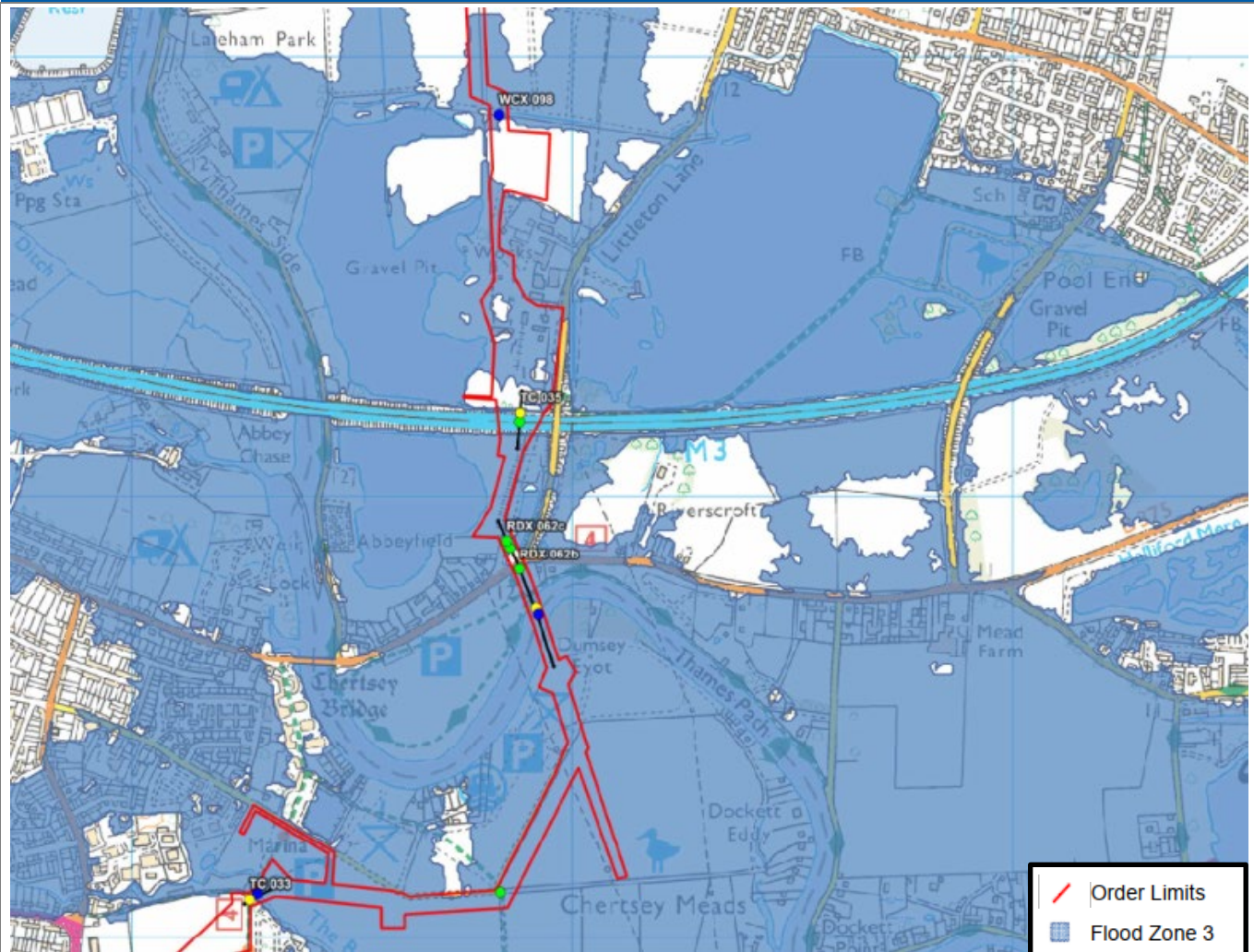
- WCX066 beneath the Windle Brook is being crossed with a trenchless method (TC 022).
- FZ3 is approximately 350m wide in this location.
- However, the width available for soil storage would be 330m in line with commitment G184.
- As indicated by Table 7.5 of the FRA a total of 2,590m³ will be stored across this area of FZ3. This comprises 2,100m³ of topsoil and 490m³ of subsoil.
- This would result in stockpiles of approximately 0.7m and 1.5m high for subsoil and topsoil respectively.
- The nearest receptors are Burnt Pollard Lane and isolated properties adjacent to the road 200m to the east of the crossing of the Windle Brook.

Clappers Brook - WCX070 (Work Plan 42 - Grid Ref: 495637, 162590)



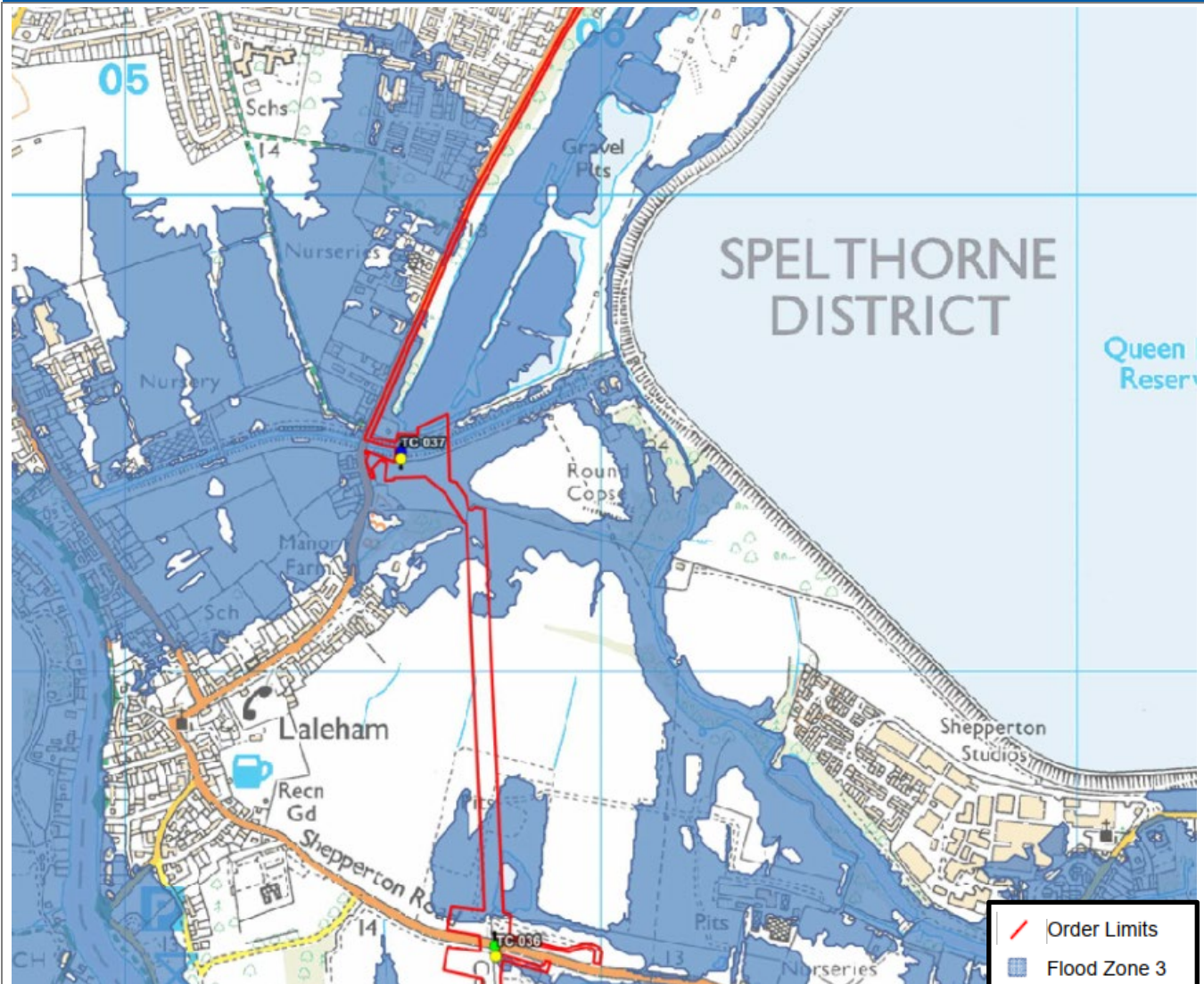
- FZ3 is approximately 335m wide in this location. However, the width available for soil storage would be 315m in line with commitment G184.
- As indicated by Table 7.5 of the FRA a total of 2479m³ will be stored across this area of FZ3. This comprises 2010m³ of topsoil and 469m³ of subsoil.
- This would result in stockpiles of approximately 0.7m and 1.5m high for subsoil and topsoil respectively.
- The nearest upstream receptors are minor roads and the Nursery to the north east of the location where the Order Limits cross FZ3. All of these receptors are outside FZ3.

River Thames Flood Plain (Work Plans 49 and 50 - Grid Ref: 505884, 167167)



- FZ3 is approximately 1710m wide south of the M3 (indicated by the pale blue line).
- FZ3 is approximately 650m wide north of the M3.
- As indicated in Table 7.5 of the FRA due to the large size of the floodplain of the River Thames the volume of material stockpiled is less than 0.4% of the total floodplain volume.

River Ash flood plain (Grid Ref: 505579, 169453 and (Grid Ref: 505579, 169453))



- FZ3 is approximately 200m wide at Shepperton Road.
- FZ3 is approximately 270m wide south of the trenchless crossing beneath the Queen Mary Reservoir intake.
- FZ3 is approximately 365m wide north of the trenchless crossing beneath the Queen Mary Reservoir intake. However, 300m of the Order Limits are along the road (street works) and as such there is no topsoil that needs to be stockpiled (see Section 2.8.8 in the CoCP (**REP4-012**)). this is street works and as such there is no soil that needs to be stockpiled. This also applies to the 100m of FZ3 in the northern section of Ashford Road.
- As indicated in Table 7.5 of the FRA due to the large size of the floodplain of the River Ash the volume of soil stockpiled is 0.5% of the total floodplain volume.



1.4 Conclusion

- 1.4.1 The FRA (**Application Document APP-134**) submitted as part of the application for Development Consent assesses the impacts of the project on flood risk. Further details have been provided within this Technical Note to clarify the assumptions regarding FZ3, in particular the compounds located within FZ3 and stockpiling of soil within FZ3.