

This integrated impact assessment (IIA) has been designed to help support the Council in making informed and effective decisions whilst ensuring compliance with a range of relevant legislation, including:

- Equality Act 2010 (Statutory Duties) (Wales) Regulations 2011
- Socio-economic Duty – Sections 1 to 3 of the Equality Act 2010
- Statutory Consultation v Doctrine of Legitimate Expectation and Gunning Principles
- Welsh Language (Wales) Measure 2011
- Well-being of Future Generations (Wales) Act 2015

PLEASE NOTE: Section 3 *Socio-economic Duty* only needs to be completed if proposals are of a strategic nature or when reviewing previous strategic decisions. See page 6 of the Preparing for the Commencement of the Socio-economic Duty Welsh Government Guidance.

1. Proposal Details			
Lead Officer	Head of Service	Service Area & Department	Date
Lazaro Raposo	Marcus Lloyd	Infrastructure	Sept. 2021

Is this proposal a... (please tick relevant box)					
Policy <input type="checkbox"/>	Strategy / Plan <input type="checkbox"/>	Practice <input type="checkbox"/>	Procedure <input type="checkbox"/>	Restructure <input type="checkbox"/>	Project <input checked="" type="checkbox"/>

What is the proposal to be assessed? *Provide brief details of the proposal and provide a link to any relevant report or documents.*

Caerphilly CBC’s Engineering Projects Group (EPG) has developed a proposal which will address water erosion and loss of support to the riverbank immediately behind residential properties along Montclair Avenue, Blackwood. The Scheme comprises headwalls, canalised and culverted constructions to convey the stream’s water to mitigate future detriment to the watercourse and neighbouring properties rear gardens. The stream currently flows between Caerphilly County Borough Council, Gwent Police, and a private owners land. CCBC Public sector housing are the riparian owner of the stream and are responsible for the scheme costs within their ownership.

2. Equality Act 2010 (Statutory Duties) (Wales) Regulations 2011

(The Public Sector Equality Duty requires the Council to have "due regard" to the need to eliminate unlawful discrimination, harassment and victimisation; advance equality of opportunity between different groups; and foster good relations between different groups). Please note that an individual may have more than one protected characteristic.

<u>Protected Characteristics</u>	Does the proposal have any positive, negative or neutral impacts on the protected characteristics and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view?
Age (<i>people of all ages</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Disability (<i>people with disabilities/ long term conditions</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Gender Reassignment (<i>anybody who's gender identity or gender expression is different to the sex they were assigned at birth</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		

<u>Protected Characteristics</u>	Does the proposal have any positive, negative or neutral impacts on the protected characteristics and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view?
Marriage or Civil Partnership (<i>people who are married or in a civil partnership</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Pregnancy and Maternity (<i>women who are pregnant and/or on maternity leave</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Race (<i>people from black, Asian and minority ethnic communities and different racial backgrounds</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		

<u>Protected Characteristics</u>	Does the proposal have any positive, negative or neutral impacts on the protected characteristics and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view?
Religion or Belief (<i>people with different religions and beliefs including people with no beliefs</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Sex (<i>women and men, girls and boys and those who self-identify their gender</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		
Sexual Orientation (<i>lesbian, gay, bisexual, heterosexual</i>)	The scheme equally benefits all users and does not negatively impact on any particular or protected groups. The works will contribute the safe conveyance of water and address defects to the water course which could affect property boundaries in the future. The land and watercourse is currently not utilised by members.		

3. Socio-economic Duty (Strategic Decisions Only)

(The Socio-economic Duty gives us an opportunity to do things differently and put tackling inequality genuinely at the heart of key decision making. Socio-economic disadvantage means living on a low income compared to others in Wales, with little or no accumulated wealth, leading to greater material deprivation, restricting the ability to access basic goods and services)

Please consider these additional vulnerable groups and the impact your proposal may or may not have on them:

- Single parents and vulnerable families
- People with low literacy/numeracy
- Pensioners
- Looked after children
- Homeless people
- Carers
- Armed Forces Community
- Students
- Single adult households
- People misusing substances
- People who have experienced the asylum system
- People of all ages leaving a care setting
- People living in the most deprived areas in Wales (WIMD)
- People involved in the criminal justice system

<u>Socio-economic Disadvantage</u>	Does the proposal have any positive, negative or neutral impacts on the following and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view?
<p>Low Income / Income Poverty <i>(cannot afford to maintain regular payments such as bills, food, clothing, transport etc.)</i></p>	<p>Positive impact for local residents and adjacent land users if funding is granted.</p> <p>The implications of further detriment to the watercourse can be significant on local resident's properties. Addressing the existing stream defects will mitigate costly remediation in the future due to the ongoing erosion and lose of support to neighbouring properties.</p>		

<u>Socio-economic Disadvantage</u>	Does the proposal have any positive, negative or neutral impacts on the following and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view?
Low and/or No Wealth (<i>enough money to meet basic living costs and pay bills but have no savings to deal with any unexpected spends and no provisions for the future</i>)	Positive impact for local residents and adjacent land users if funding is granted.		
Material Deprivation (<i>unable to access basic goods and services i.e. financial products like life insurance, repair/replace broken electrical goods, warm home, hobbies etc.</i>)	Positive impact for local residents and adjacent land users if funding is granted.		
Area Deprivation (<i>where you live (rural areas), where you work (accessibility of public transport)</i>)	<p>Positive impact for local residents and adjacent land users if funding is granted.</p> <p>The implications of further detriment to the watercourse can be significant on local resident's properties. Addressing the existing stream defects will mitigate costly remediation in the future due to the ongoing erosion and lose of support to neighbouring properties.</p>		

<p>Socio-economic Background <i>(social class i.e. parents education, employment and income)</i></p>	<p>Positive impact for local residents and adjacent land users if funding is granted.</p> <p>The implications of further detriment to the watercourse can be significant on local resident's properties. Addressing the existing stream defects will mitigate costly remediation in the future due to the ongoing erosion and lose of support to neighbouring properties.</p>		
<p>Socio-economic Disadvantage <i>(What cumulative impact will the proposal have on people or groups</i></p>	<p>Positive impact for local residents and adjacent land users if funding is granted.</p>		
<p><i>because of their protected characteristic(s) or vulnerability or because they are already disadvantaged)</i></p>	<p>Positive impact for local residents and adjacent land users if funding is granted. Undertaking these works will have an overall positive impact on people's mental health and wellbeing for local residents as they will retaining use of their rear gardens.</p>		

4. Corporate Plan – Council’s Well-being Objectives

(How does your proposal deliver against any/all of the Council’s Well-being Objectives? Which in turn support the national well-being goals for Wales as outlined in the Well-being of Future Generations (Wales) Act 2015. Are there any impacts (positive, negative or neutral? If there are negative impacts how have these been mitigated?) [Well-being Objectives](#)

<p>Objective 1 - Improve education opportunities for all</p>	<p>This scheme does not directly facilitate and or improve education opportunities. However this land may be used for ecological environment study area and or developed by schools to encourage bio-diversity projects. Please note this will opportunity will exclude the canalised section of the scheme due to access health & safety issues.</p>
<p>Objective 2 - Enabling employment</p>	<p>This scheme does not directly facilitate and or improve employment opportunities. However this scheme may afford employment to local residents with suitable skills during the construction of these works.</p>
<p>Objective 3 - Address the availability, condition and sustainability of homes throughout the county borough and provide advice, assistance or support to help improve people’s well-being</p>	<p>This scheme will ensure future detriment to watercourse at this location is addressed. Additionally, river bank support will be reintroduced to the residential properties along Montclair avenue / unnamed stream. Currently a limited number of local residents back gardens have been affected by the loss of bank support along the stream. Undertaking these works will provide assurances to local residents of the continued safe use their rear gardens.</p>
<p>Objective 4 - Promote a modern, integrated and sustainable transport system that increases opportunity, promotes prosperity and minimises the adverse impact on the environment</p>	<p>This scheme will address the ongoing watercourse scouring under one scheme. Undertaking this scheme in one phase will enable local funa, flora and ecology to re-establish itself with no future major construction work require at thos location.</p>
<p>Objective 5 - Creating a county borough that supports healthy lifestyle in accordance with the Sustainable Development principle with in the Well-being of Future Generations (Wales) Act 2015</p>	<p>These works will provide local residents peace of mind that the local watercourse is not undermining their properties. Additionally these works have been designed to conform to the Water Framework Directive in order to get Ordinary Watercourse Consent, thus ensuring the continuity of watercourse for the enjoyment, health and well-being of the community down and stream and as a whole.</p>
<p>Objective 6 - Support citizens to remain independent and improve their well-being</p>	<p>These works will provide local residents peace of mind that the local watercourse is not undermining their properties.</p>




4a. Links to any other relevant Council Policy



(How does your proposal deliver against any other relevant Council Policy?)

- Local Transport Plan
- Corporate Plan (including well-being objectives)
- Carbon Reduction Strategy
- Highway Asset Management Plan

5. Well-being of Future Generations (Wales) Act 2015 – The Five Ways of Working (ICLIP)

(Also known as the sustainable development principles. The Act requires the Council to consider how any proposal improves the economic, social, environmental and cultural well-being of Wales using the five ways of working as a baseline)

<u>Ways of Working</u>	How have you used the Sustainable Development Principles in forming the proposal?
<p>Long Term</p> 	<p>Consider the long-term impact of the proposal on the ability of communities to secure their well-being.</p> <p>The strategy proposed will provide a long term asset management solution and will allow for more effective and predictable resource/financial/carbon reduction commitments going forward.</p>
<p>Prevention</p> 	<p>Consider how the proposal is preventing problems from occurring or getting worse</p> <p>Addressing the watercourse defects now will mitigate future detriment and curtail more invasive heavy civil engineering remediation solutions in the future. Future maintenance and monitoring may need to be developed to detect deterioration of the network and promote timely proactive responses allowing a more efficient use of finite budgets.</p>
<p>Integration</p> 	<p>Consider how your proposal will impact on other services provided in our communities (these might be Council services or services delivered by other organisations or groups)</p> <p>A well maintained watercourse forms part of an overall strategy providing ecological advantages that will impact green spaces downstream for the benefit of the local community and visitor's to the borough.</p>

<p>Collaboration</p> 	<p>Consider how you are working with Council services or services delivered by other organisations or groups in our communities.</p> <p>The feasibility and optioneering of designs is based upon a collaborative approach between Caerphilly Council, Natural Resources Wales and specialist hydraulic Engineering Consultancy. It brings internal departments together to deliver effective solutions over the short and long term and also recognises importance of maintaining green spaces and water courses.</p>
<p>Involvement</p> 	<p>Consider how you involve people who have an interest in this proposal and ensure that they represent the diversity of our communities.</p> <p>Internal departments have worked together to develop the proposal. Going forward there needs to be an effective communication plan to ensure the strategy behind the proposal, along with the suitability of application, is transparent to all parties. This will require the involvement of staff and engagement with all relevant stakeholders.</p>

6. Well-being of Future Generations (Wales) Act 2015

<u>Well-being Goals</u>	Does the proposal maximise our contribution to the Well-being Goal and how?
<p>A Prosperous Wales <i>An innovative, productive and low carbon society which recognises the limits of the global environment and therefore uses resources efficiently and proportionately (including acting on climate change); and which develops a skilled and well-educated population in an economy which generates wealth</i></p>	<p>The work set out will contribute to a Prosperous Wales and a Prosperous Caerphilly. The scheme will prevent and reduce incidences of instability which reduces the potential injury, loss of life, loss and damage to property, the local economy (road closures, insufficient diversionary alternatives etc.) while</p>
<p><i>and provides employment opportunities, allowing people to take advantage of the wealth generated through securing decent work</i></p>	<p>providing wider multiple benefits. The implications of loss of support of the stream bank may impact the current stream arrangement and undermine neighbouring properties.</p>
<p>A Resilient Wales <i>A nation which maintains and enhances a biodiverse natural environment healthy functioning ecosystems that support social, economic and ecological resilience and the capacity to adapt to change (for climate change)</i></p>	<p>The very nature of this proposal means that it has a focus on environmental issues and contribution to a resilient Wales. The implications of water course erosion can be significant to local residents but will also affect the wildlife and ecosystems. Management and maintenance of watercourse enables our local businesses and communities to be more resilient and is vital to the success of sustainable development.</p>

<p>A Healthier Wales <i>A society in which people's physical and mental well-being is maximised and in which choices and behaviours that benefit future health are understood</i></p>	<p>Management and maintenance of watercourses ensures a clean, green environment with access to open space, clean air and water are key elements of health and well-being.</p>
<p>A More Equal Wales <i>A society that enables people to fulfil their potential no matter what their background or circumstances (including their socio-economic background and circumstances)</i></p>	<p>Ensuring that everyone across the county borough has equal access to a clean, green and attractive environment is a core element of our work. The works will contribute to a more equal Wales by way of effectively managing and maintaining our streams and water ways. The scheme contributes to great equality, cohesiveness and responsibility both locally and globally by ensuring this scheme was designed and constructed for the benefit of the local ecology and local residents and adopts current environmental and suitability best practises</p>

<p><u>Well-being Goals</u></p>	<p>Does the proposal maximise our contribution to the Well-being Goal and how?</p>
<p>A Wales of Cohesive Communities <i>Attractive, viable, safe and well-connected communities</i></p>	<p>CCBC will explore creative solutions that ensures the effective management of water courses with the Borough. This demonstrates that we promote communities to be caring and environmentally conscious. This in turn helps to create a tidier, more attractive well-connected place for residents and visitors.</p>
<p>A Wales of Vibrant Culture and Thriving Welsh Language</p>	<p>Maintaining watercourses within the borough will ensure the continued use and sustainability of local ecosystems to be enjoyed by all. Additionally we will ensure correspondence, communications and details on the website, via social media channels and to residents is bilingual.</p>

<p><i>A society that promotes and protects culture, heritage and the Welsh language, and which encourages people to participate in the arts, and sports and recreation</i></p>	<p>Ensuring works signs are bilingual will promote the Welsh language and we need to ensure the rights of Welsh speakers to use Welsh when dealing with the council are maintained.</p>
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<p>A Globally Responsible Wales <i>A nation which, when doing anything to improve the economic, social, environmental and cultural well-being of Wales, takes account of whether doing such a thing may make a positive contribution to global well-being</i></p>	<p>One of Caerphilly’s corporate objective is to reduce carbon emissions and to reduce our contribution to global warming. Multiple benefits including biodiversity and reduction in carbon emissions will be achieved by promoting sustainable solutions and by maintaining our local water sources.</p>
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7. Welsh Language (Wales) Measure 2011 and Welsh Language Standards
(The Welsh Language Measure 2011 and the Welsh Language Standards require the Council to have ‘due regard’ for the positive or negative impact a proposal may have on opportunities to use the Welsh language and ensuring the Welsh language is treated no less favourably than the English language) [insert link to WL Commissioners Policy Making Standards Guidance](#)



Requirement	Does the proposal have any positive, negative or neutral impacts on the following and how?	If there are negative impacts how will these be mitigated?	What evidence has been used to support this view? e.g the WESP, TAN20, LDP, Pupil Level Annual School Census
<p>Links with Welsh Government’s Cymraeg 2050 Strategy and CCBC’s Five Year Welsh Language Strategy 2017-2022 and the Language Profile</p>	<p>No direct impact on the Welsh language. EPG will Ensure all scheme are bilingual will promote the Welsh language and we need to ensure the rights of Welsh speakers to use Welsh when dealing with the council are maintained.</p>		

<p>Compliance with the Welsh Language Standards. Specifically Standards 88 - 93</p>	<p>See Above</p>		
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Opportunities to promote the Welsh language <i>e.g. status, use of Welsh language services, use of Welsh in everyday life in work / community</i>	See above		
Opportunities for persons to use the Welsh language <i>e.g. staff, residents and visitors</i>	See above		
Treating the Welsh language no less favourably than the English language	See above		

7a. Having considered the impacts above, how has the proposal been developed so that there are positive effects, or increased positive effects on (a) opportunities for persons to use the Welsh language, and b) treating the Welsh language no less favourably than the English language.

Ensure correspondence, communications and details on the website, via social media channels and with residents is bilingual. Also ensure site works signs are bilingual. We need to ensure the rights of Welsh speakers to use Welsh when dealing with the council are maintained.

8. Data and Information

(What data or other evidence has been used to inform the development of the proposal? Evidence may include the outcome of previous consultations, existing databases, pilot projects, review of customer complaints and compliments and or other service user feedback, national and regional data, academic publications and consultants' reports etc.)

Data/evidence <i>(Please provide link to report if appropriate)</i>	Key relevant findings	How has the data/evidence informed this proposal?
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<p>Caerphilly CBC's Engineering Projects Group (EPG) has developed a proposal which will address water erosion and loss of support to the riverbank immediately behind residential properties along Montclair Avenue, Blackwood. The Scheme comprises headwalls, canalised and culverted constructions to convey the stream's water to mitigate future detriment to the watercourse and neighbouring properties rear gardens. The stream currently flows between Caerphilly County Borough Council, Gwent Police, and a private owners land. A total of four (4) stakeholders are directly involved as possible riparian owners in this scheme and are possibly expected to provide a proportional financial contribution toward the design and construction costs associated with this project.</p>	<p>The water course has been visually inspected and monitored ongoing detriment of the water course.</p> <p>The Water Framework Directive Assessment has concluded that the potential impacts resulting from the operation of the scheme have been identified and assessed as to whether they are significant enough to cause degradation to current WFD status. The geomorphological assessment concluded that there would be a negligible change in the baseline conditions and geomorphic processes within the unnamed watercourse. The assessment acknowledges that there would be a slight change in the sediment supply, but these impacts would be localised to just the unnamed watercourse due to the presence of the downstream culvert and weir.</p> <p>It is therefore concluded that the proposed scheme is not expected to cause degradation of the individual quality elements or overall WFD status of the Sirhowy River.</p>	<p>The Water Framework Directive Assessment coupled with CCBC Land Drainage requirements informed the design methodology for this scheme. Additionally CCBC Ecologists were consulted during the detailed design phase to ensure the proposed will not have an adverse effect on local ecology.</p>
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Were there any gaps identified in the evidence and data used to develop this proposal and how will these gaps be filled?
Details of further consultation can be included in Section 9.

The data collated evidences that the proposal will address stream scour, erosion and loss of bank support, therefor will ensure a long term solution. The funding isrequired to progress to the construction phase of this scheme.

9. Consultation

(In some instances, there is a legal requirement to consult. In others, even where there is no legal obligation, there may be a legitimate expectation from people that a consultation will take place. Where it has been determined that consultation is required, [The Gunning Principles](#) must be adhered to. Consider the [Consultation and Engagement Framework](#). Please note that this may need to be updated as the proposal develops and to strengthen the assessment.

Briefly describe any recent or planned consultations paying particular attention to evidencing the Gunning Principles.

Two construction methods were considered at feasibility stage . Construction method 1) culvert the entire length of water course, Construction method 2) soft landscaping and reintroducing the streambed armour.

Construction method 2- CBEC Environmental engineering produced a design which sought to mitigate the streambed incision but failed to provide a solution for the embankment support

Construction method 1 – CCBC EPG sought to culvert the entire length of defective water course. In doing so the culvert pipe would stop further incision and the backfill soil would introduce soil to support / prop the scoured embankments. CCBC land drainage suggested the CIRIA did not consider culverts a sustainable / ecologically sensitive form of construction . EPG Structures worked with CCBC land drainage to reach an agreeable compromise to satisfy the Ordinary Water Course consent requirements which has

During the construction proposed construction phase development, correspondence and further consultation and engagement will be arranged via the local councillors informing them of any development and or exchange any concerns regarding this scheme.

Social media sites and council websites are again very useful in keeping the communities engaged and will be utilised to inform the local residents of the proposed scheme works.

10. Monitoring and Review

How will the implementation and the impact of the proposal be monitored, including implementation of any amendments?

Works will be monitored weekly via site meetings and work programme reviews. Liaison with local property owners and residents will be undertaken by the nominated Principal Contractor.

What are the practical arrangements for monitoring?	Works will be monitored weekly via site meetings and work programme reviews
How will the results of the monitoring be used to develop future proposals?	A lessons learnt meeting will be arranged between CCBC Officers and the Contractor to identify any issues found with either the contract documents, construction methodology and or design proposals to better inform similar schemes.
When is the proposal due to be reviewed?	Any reviews will be determined once the scheme proposal is identified and confirmed.

Who is responsible for ensuring this happens?	Head of Infrastructure / Designers
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11. Recommendation and Reasoning

<input checked="" type="checkbox"/>	Implement proposal with no amendments
<input type="checkbox"/>	Implement proposal taking account of the mitigating actions outlined
<input type="checkbox"/>	Reject the proposal due to disproportionate impact on equality, poverty and socio-economic disadvantage

Have you contacted relevant officers for advice and guidance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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12. Reason(s) for Recommendation

(Provide below a summary of the Integrated Impact Assessment. This summary should be included in the "Summary of Integrated Impact Assessment" section of the Corporate Report Template. The Integrated Impact Assessment should be published alongside the Report proposal).

Include here a conclusion to your IIA. What is it telling you? How has the data / evidence used helped you to make the decision for Section 11 above? Mention any significant impacts (positive, negative or neutral) if any negative ones identified, how have they been mitigated to lessen the impact? The summary you provide here will be copied into your report going forward for a decision through the committee process, therefore this section must be concise but informative.

The IIA indicates that the stream reinstatement works will address the ongoing scour, erosion and loss of embankment support. Addressing the defects now will mitigate the need for heavier civil engineering works in the future. Not progressing with the proposal could have the reverse negative impact as the stream's embankments could eventually fail resulting in the private land owners not using their back gardens due to safety concerns.

Additionally localised embankment collapse could cause localised flooding which can affect local residents, road users, Blackwood Police Station and leisure centre users.

13. Version Control

(The IIA should be used in the early stages of the proposal development process. The IIA can be strengthened as time progresses to help shape the proposal. The Version Control section will act as an audit trail to evidence how the IIA has been developed over time)

Version No.	Author	Brief description of the amendments/update	Revision Date
1	Lazaro Raposo	Original	Sept. 21

Integrated Impact Assessment Author

Name:	?Lazaro Raposo ?
Job Title:	Senior Engineer
Date:	April 21

Head of Service Approval

Name:	Marcus Lloyd TBC		
Job Title:	Head of Infrastructure		
Signature:		Date:	28 Spet 2021