**This document is an application form to sumit an expression of interest for schemes to be delivered through Green Recovery. For any questions or queries, please email** **SuDSOpportunities@uuplc.co.uk****.**

**Please note: Green Recovery is only applicable to be spent in the strategic catchments of the North West as articulated within the submission to Ofwat. These are the Eden, Fylde Coast and GMCA areas. FAQs section is provided at the end of this document.**

**This second phase will close on 9th December 2022. We are looking to select projects that can be delivered at pace and any unsuccessful project may reapply with more detail later in phase 3. We can provide feedback where requested to develop and mature project submissions.**

**All schemes must be completed before 31st March 2025. The second round of funding has a limit of £5m and there is no limit for any individual submissions.**

**Please sign up to Collaboration Portal for further details -** [**https://collab-uu.co.uk/**](https://collab-uu.co.uk/) **(Green Recovery)**

# Section 1: Organisational Details

|  |  |
| --- | --- |
| **Organisation or group** |  |
| **Contact details** | **Lead contact** | **Second contact** |
| **Full name** |  |  |
| **Email address** |  |  |
| **Role** |  |
| **Telephone/mobile number** |  |
| **Organisation address** |  |

# Section 2: Project Overview

|  |  |
| --- | --- |
| **Project Name** |  |
| **Location** *(please include all locations for each Suds/NFM component)*  | **Eastings** |  | **Northings** |  |
| **Overview** *Please include any relevant photos and maps (also shapefile where possible).**Do you require support from UU to co-identify, co-design or co-deliver the scheme?**Do you require support from UU to model the impact and benefits of this scheme?* |  |

# Section 3: Project Details

What Sustainable Drainage Systems (SuDS) or Natural Flood Management (NFM) techniques are planned to be used?

|  |  |
| --- | --- |
| **SuDS Measure** | **NFM Measure** |
| Rainwater Harvesting |  | Upland Peat Management |  |
| Green Roofs |  | Soil and Land Management |  |
| Infiltration Systems |  | Runoff Management |  |
| Proprietry Treatment Systems |  | Runoff Storage |  |
| Filter Strips / Drains |  | Woodland Management |  |
| Swales |  | Leaky Barriers |  |
| Bioretention Systems |  | Offline Storage |  |
| Trees |  | Floodplain Reconnection |  |
| Pervious Pavements |  | Other |  |
| Attenuation Storage Tanks |  | If Other is Yes – Any Further Details? |
| Detention Basins |  |
| Ponds and Wetlands |  |

*Further information on SuDS and NFM can be found in their respective manuals.*

*The SuDS Manual C753*

*The NFM Manual C802*

# Section 4: Water Management

|  |  |
| --- | --- |
| **Area of rainwater attenuated and/or disconnected.** *Please include a table if more than one area being disconnected, and describe type of surface, eg. Roof, greenfield, road, etc**Please attach a plan (and attach a shapefile where possible) of the area that will be managed by the scheme.* |  |
| **Volume of rainwater attenuated and/or disconnected.***Please attach and modelled outputs of the impact of this scheme.**If no details are available to hand please state so, and this can be accounted for at a later date.* |  |

# Section 5: Land Ownership

|  |  |  |  |
| --- | --- | --- | --- |
| **Land Ownership** | Y/N | **NFM Measure** | Y/N |
| Rainwater Harvesting |  | Upland Peat Management |  |
| Green Roofs |  | Soil and Land Management |  |
| Infiltration Systems |  | Runoff Management |  |
| Proprietry Treatment Systems |  | Runoff Storage |  |

# Section 6: Cost

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CAPEX / OPEX** | **Element** | **Accuracy****Low/Med/High** | **Estimate** | **Cost Band****<£15k** | **£15-50k** | **£50-250k** | **£250k+** | **Actual** |
| CAPEX | Green Recovery |  |  |  |  |  |  |  |
| CAPEX | Partnership Funding |  |  |  |  |  |  |  |
| CAPEX | Total |  |  |  |  |  |  |  |
| OPEX | Green Recovery Funded Maintenance (Annual Estimate) |  |  |  |  |  |  |  |
| OPEX | Locally Funded Maintenance (Annual Estimate) |  |  |  |  |  |  |  |

# Section 7: Adoption and Maintenance

|  |  |
| --- | --- |
| **Adoption and Maintenance Plan***Do you plan on adopting the installations?**What maintenance activities will be considered?* *How will maintenance be financed? Does this require support?* |  |

# Section 8: Risks and Uncertainties

|  |  |
| --- | --- |
| **Risks**What factors may hamper the ability to deliver the project on time, cost and quality indicators? |  |
| **Uncertainties**Is there any further data, information and studies required to mature the project? |  |

Please return your completed document, or any questions to SuDSOpportunities@uuplc.co.uk

# **Frequently Asked Questions**

* *If it is to resolve or reduce a known flooding problem, is there a target improvement that needs to be met?*

We are open to looking at reducing or resolving local flood risk through the project. We can’t use the money to duplicate what we have already been funded to do as a business but we can look at doing a more expensive blue green option through Green Recovery. We don’t have any parameters set for the level of resilience that require to be achieved. As you will appreciate surface level storage of rainwater will not replicate a tank performance and would need to be done strategically / at scale to replicate that. Completely open for such an approach, but anticipating it would be easier to work our way through public realm installation in partnership at a smaller scale first.

* *I assume for example it is not intended to build SUDS a developer would have built SUDS anyway?*

Correct – if there is a duty or responsibility for developers to already be carrying out that activity then we would not look at funding it. It does not exclude the opportunity of looking to do work with developers in a different guise though. For example, if there were any enhancements that could be made to an existing development really integrating source control in adjacent to the development then we could explore that.

• *If there was a case that was remote from the wastewater network, eg. a highway drainage system could SUDS be delivered if there was no impact on the wastewater network*

Projects will be prioritised looking at how impactful they will be to increasing resilience to the network – so if there was no hydraulic connectivity I would assume that we will have others that have more of a connection and therefore be fund ahead of something that didn’t. However, it would be interesting to discuss whether there are any overland flow impacts that could impact our network for example or impacts on a watercourse that increased outfall locking. In summary, it’d reduce the chances of funding but not necessarily exclude it.

• *Is it retrofitting SUDS what you are aiming for, say to redirect highway drainage?*

Yes – in the business case this was a big part of it. Just being able to provide some finance and resource to partners that had historically not had that space to go for it then we could use this to build that capability for local authorities to test and adopt features to map out logistics on installation specifications, adoption, legal, maintenance costs etc. We can help with all of this and looking for anyone who would also like to have a go at it. We can link it fairly easily hopefully to areas where either we have combined sewer overflows that are spilling or localised flooding issues for example and also provide some amenity and biodiversity betterment especially for areas hit badly by covid.

• *If in my area there were not many opportunities for infiltration, so its unlikely that water could be removed from sewers – So we would be limited in what works.*

Unfortunately we are finding that this is the case across much of Manchester. In recognition of this, I do appreciate that a lot of SuDS may be lined and return flows back to the sewer. What I’d like to see however is recognition of how if we install some systems such as raingardens or trees, how they would link together over a longer period of time into strategic blue-green corridors. With the help of the likes of your team and highways I think there would be opportunity to see where road networks and cycle ways would be created and modified in the future that would present opportunity to but by bit build more surface water networks where we could disconnect and discharge to watercourse to improve sewer resilience.

• *Is there a checklist of what a scheme would need to deliver to be successful?*

In summary it is demonstrating that the below points are met.

1. Volume attenuated and / or disconnected from the network

2. Natural Capital Value

3. Partnership and Leveraged Funding

4. Innovation – has this been done before? Are we establishing a new partnership with encouragement to work with e.g UU Area/Catchment team when developing proposals?

As we are not bound to delivering an improvement on flooding and spills etc – I’m really keen for it to be about unlocking capability and enabling partnerships, so flexible in how that is achieved.

For instance, If we were talking about the use of reservoirs as flood risk mitigation before. Something along those lines for myself would be to consider how far and wide we could do Natural Flood Management in the uplands which creates capacity in the downstream river networks to allow for the disconnections we make in the urban areas… Could we pair doing some highway disconnection of surface water through a series of tree pits to watercourse and do some NFM in parallel further up in the catchment?

It’s also about considering delivery models… Do United Utilities design and deliver? Would you like to keep control of that within highways and we can provide technical advice on landscaping for example?

• *What does impact Natural Capital Value and how It can be improved?*

Enhancing Natural Capital for customers is based around improving the ecosystem servies (ESS) following an intervention. The following ESS valued by our customers are:

* Flooding – reducing flooding to properties/land
* Climate Regulation – reducing carbon in the environment through source reduction and sequestration
* Biodiversity – creating new or improving existing areas of habitat (must be over and above net gain)
* Recreation and Amenity – creating accessible natural spaces for people to enjoy
* Health and Wellbeing – creating opportunities to improve physical and mental wellbeing

Natural capital value is calculated using Ciria’s BEST modelling tool.

• *Phase 1 submission by 31/08/2022 and Phase 2 submission is now by 9th December 2022, do they need to be delivered by March 2025*

Yes, but if projects can be delivered this FY may be given extra prioritisation on design and resource support. We want to deliver at pace