



HELLO, AND SOME BACKGROUND

Thank you for taking the time to look at this information about the St. Leonard Park Regeneration Project. This exciting and innovative project is about taking a new approach to the better management of storm water across an area within the St. Mary's area in the north of Dundee. It is a joint initiative by Scottish Water and NatureScot working in association with Dundee City Council. A consultant team of Stantec Engineers working with OPEN landscape architects has been appointed to design the proposals.

The St. Leonard Park project is the first project within the St. Mary's storm water strategy. The area includes a landscape corridor leading from St. Leonards and St. Fergus Church on Macalpine Road to Baldragon Academy on Harestane Road and includes St. Leonard Park as well as part of Balgowan Avenue Park. The location is shown on the plan above.

The aim is to reduce flood risk, and at the same time improve these green spaces for the benefit of everyone. At the moment the park attracts very little wildlife, and doesn't offer much attraction for using the park. The park could provide much more and generate multiple benefits for recreation, active travel and activities for the people who live and work around this area.

We explain a bit more about how this can be done on these boards. Our ideas are at an early stage, so we are hoping that you will help shape the ideas.





ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

THE CHALLENGE

Flooding has historically been an issue within a lowlying area of land to the east of St. Leonard Place; the photograph shows what this looks like when at its worst. The problem occurs during times of extreme rainfall, when the existing storm water drain cannot cope with the additional water and it then overflows The problem becomes more pressing when we take climate change predictions into account; longer periods of drought combined with an increase in sudden and severe rainfall events will create increased risk of flooding. We must do something about this.

THE OPPORTUNITY

There is an exciting opportunity to create a radical new design for the park which not only solves the flooding issue but will also give opportunities to enhance the park. This new park will hold clean water above ground in water features instead of below ground in pipes. This will include both the water that is normally held in the pipe network and the rainfall.

We hope this will start with reopening the historic Back Burn which was culverted in the 1960s, creating a new watercourse. It could also include a variety of other features. We will also explore opportunities to create: a new pathway system that will improve connections and encourage more walking and cycling; a more attractive planting structure which creates spaces, allows areas for growing and increases biodiversity and wildlife; and areas for active use - outdoor gyms for example or improved play.



















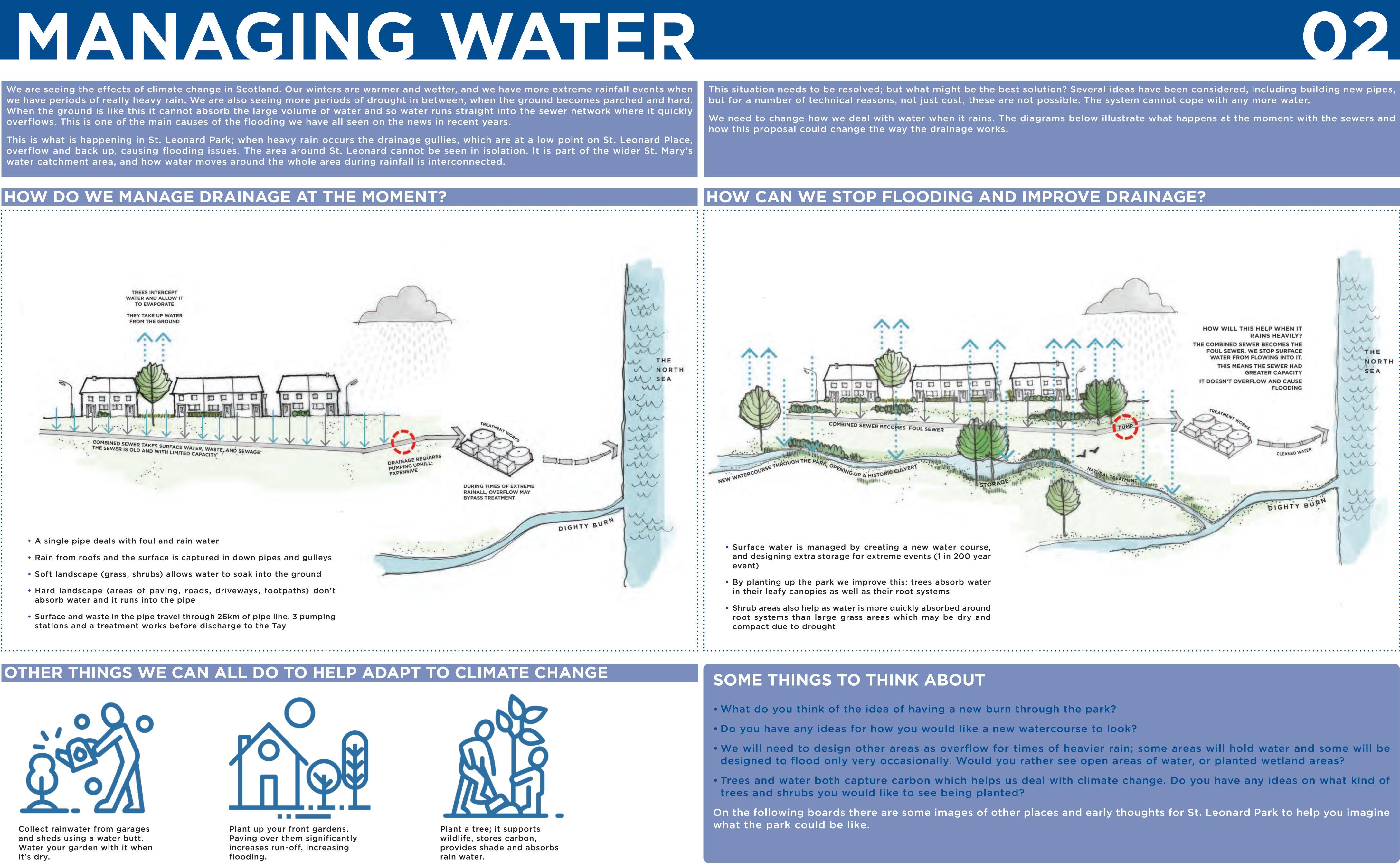
overflows. This is one of the main causes of the flooding we have all seen on the news in recent years.

water catchment area, and how water moves around the whole area during rainfall is interconnected.

DO WE MANAGE DRAINAGE AT THE MOMENT? TO EVAPORA HEY TAKE UP WA FROM THE GROUND MBINED SEWER TAKES SURFACE WATER, WASTE, AND SEWAGE

- A single pipe deals with foul and rain water
- Rain from roofs and the surface is captured in down pipes and gulleys
- Soft landscape (grass, shrubs) allows water to soak into the ground
- Hard landscape (areas of paving, roads, driveways, footpaths) don't absorb water and it runs into the pipe
- Surface and waste in the pipe travel through 26km of pipe line, 3 pumping stations and a treatment works before discharge to the Tay





ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

Collect rainwater from garages and sheds using a water butt. Water your garden with it when it's dry.











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BENCHMARKING

The St. Leonard Park project is very ambitious and one of the biggest schemes of its kind in Scotland. There are however examples from elsewhere which offer similar approaches to how we can manage our drainage, and how we look to the future to address climate change.

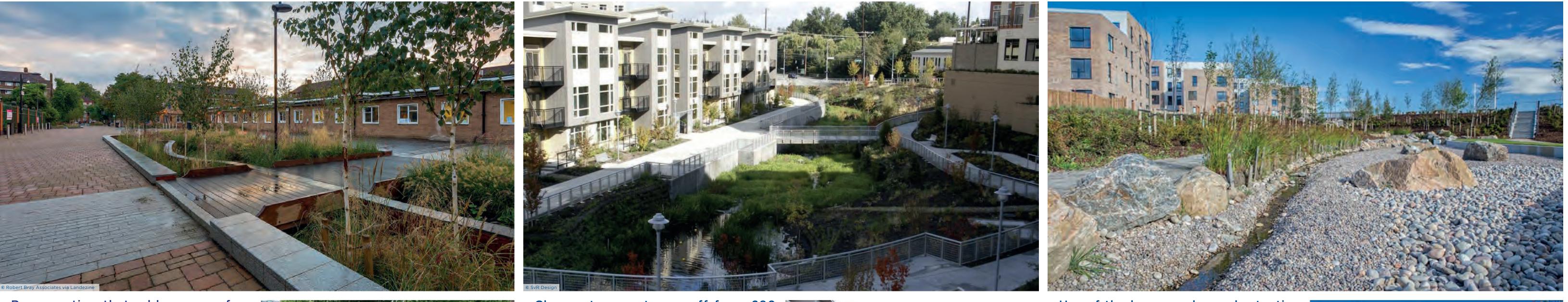
To give you some ideas as to how the park could look once it has been regenerated, some of these examples are shown below.

- Bridget Joyce Square in London is an award winning scheme which has transformed an area in front of a primary school by using creative, nature based design to address flooding and traffic issues.
- Thornton Creek in Seattle is, like St. Leonard a linear park where a culverted burn was re-opened and the park was redesigned to improve management of surface water and access.
- Cults Burn Park on the edge of Aberdeen shows how a new burn can be redesigned and allow safe access.
- ForthQuarter Park in Edinburgh is a more traditional park than Thornton Creek; whilst managing the water and improving ecology it also offers large areas of open space for recreation.

BRIDGET JOYCE SQUARE - LONDON



Bridget Joyce Square is located between a school and two playgrounds, providing connection to a previously hostile and unsafe environment, dominated by traffic. The project stops surface water flooding by restricting flows and detaining water on site until downstream risks have passed. The design is playful, and by reorganising traffic it has created an attractive green gathering space within the community, with space for events and learning.



- Regeneration that addresses surface water and traffic issues to create a family space
- Example of play sensitively integrated with SUDS
- Creative and sculptural detailing integrated with drainage design
- Soft, textural planting contrasts with clean lines in the hard landscape
- Permeable paving
- Planted basins
- Rain gardens
- Tree planting
- Downpipe disconnection



ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

THORNTON CREEK - SEATTLE



Thornton Creek Water Quality Channel is a 2.7 acre park in Seattle, with a stretch of de-culverted watercourse. The stream was brought back to the surface and a green space created to better manage extreme flooding events, treat surface water, increase biodiversity, absorb carbon, and create an attractive space for people.

The new park also acted as inspiration for sustainable development and investment in the area.





- Cleans storm water runoff from 680 acres of surrounding neighbourhood
- Uses plants to clean the water
- Native planting slows the storm water
- Interpretive signs teach visitors about the landscape's ability to restore ecological functions
- Pathways through the park and bridges across the channel make navigating the neighbourhood safer and more efficent

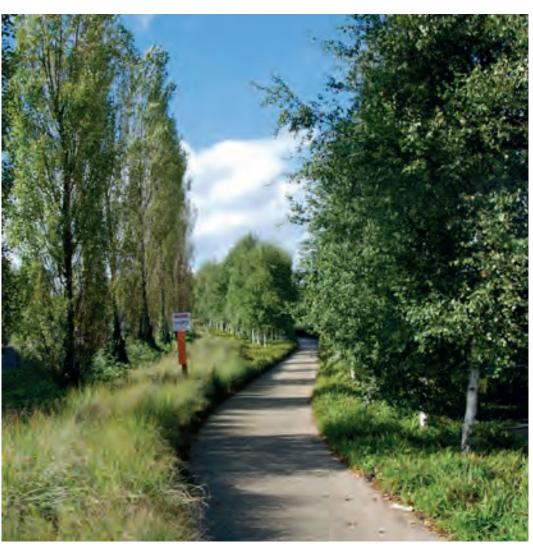


- meadows
- paddling.
- points.

CULTS BURN PARK - ABERDEEN

Countesswells is a new planned settlement on the edge of Aberdeen consisting of 3,500 new homes. One of the key landscape spaces is the creation of the 12 ha Cults Burn Park, which utilises a former minor watercourse and extensive field drainage on the site to combine into a new and larger burn. The burn now sits within a parkland corridor at the heart of the masterplan within a new linear park. Overlooked by new development, this generous swathe of landscape flows through the new settlement providing a park system accessible to all.





• Use of the burn, swales and retention basins to hold and manage water.

Seasonal planting and significant

Children use the park for ecology study

 Areas of the burn are designed for safe access including stepping stones for crossing and shallow areas for

• The park includes several connecting paths which cross the burn at key





- Use of planting to clean the water
- Minimal, low-key boardwalks do not landscape
- The new green and blue environment











FORTHQUARTER PARK - EDINBURGH

The water management infrastructure in place at Forthquarter Park is designed to collect water from the surrounding landscape and feed it back into the Firth of Forth estuary. The existing, culverted watercourse was brought to the surface, and now flows through the park, integrated with a system of wetlands, swales, detention basins, constructed wetlands, and stormwater disposal systems. Wetland planting is used for natural water treatment, and the park has a strong focus on ecological connection.

Soft, naturalistic planting

disrupt the naturalistic character of the park, and plants can grow around ther to further blend them into the wider

provides an ecological corridor, allowing animal species to move safely





NatureScot Buidheann Nàdair na h-Alb









ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

THE PARK: EARLY THOUGHTS









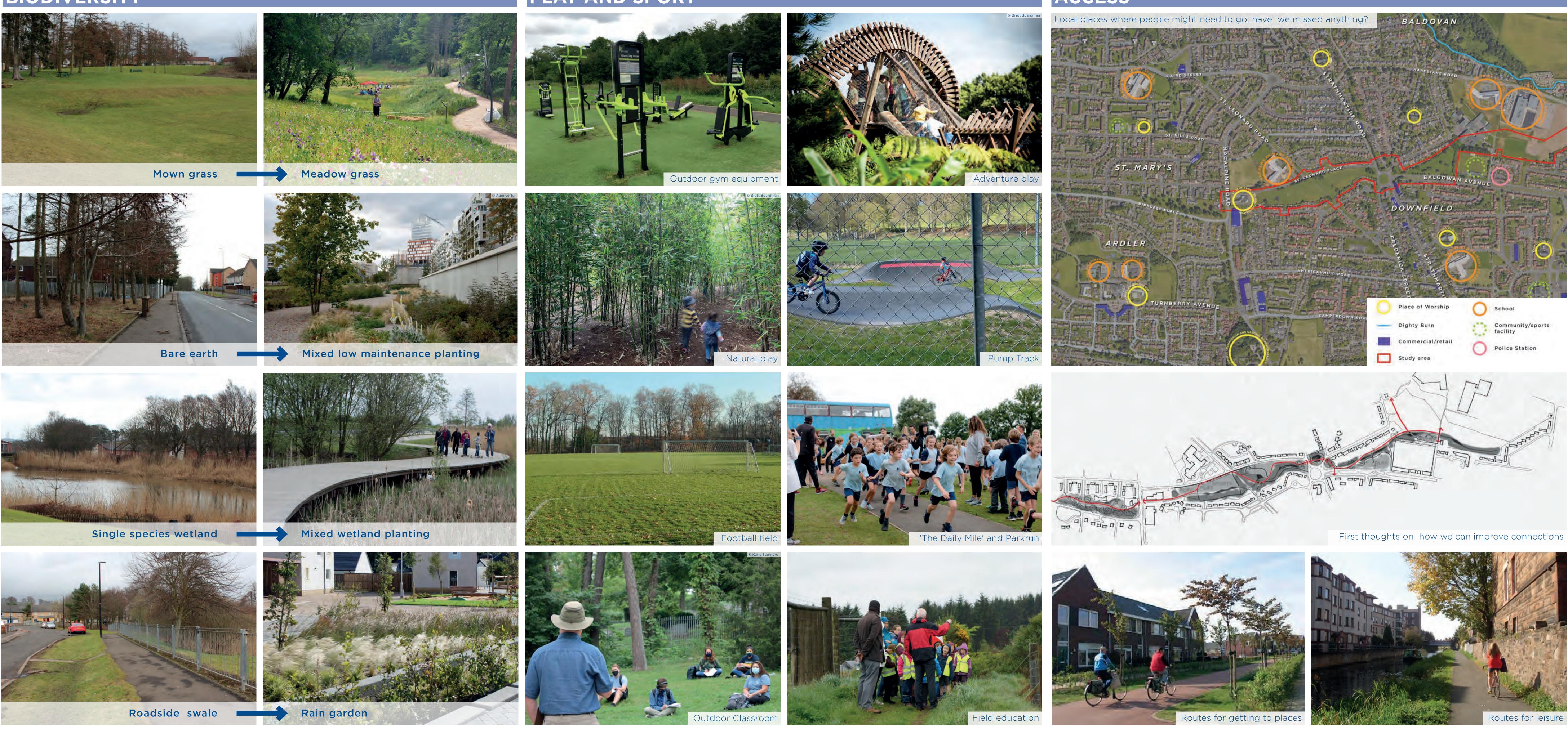






USING THE PARK

BIODIVERSITY



HOW CAN WE PLANT UP THE PARK TO IMPROVE **BIODIVERSITY?**

We not only have a climate crisis but an ecological emergency too. in 2019 the United Nations announced that "Nature is declining globally at unprecedented rates" which impacts on us all. Creating species-rich planting, with a focus on our native species, can help redress the balance. This will change how the park looks. Do you like these ideas? Would you be interested in getting involved with designing, planting and maintaining a greener park?

ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

PLAY AND SPORT

HOW COULD THE PARK BE USED FOR SPORT AND **ACTIVITY?**

There are numerous ways of improving the park for sport and activity, and these can be designed to complement the associated drainage work. New water features can offer learning opportunities. The football field can be designed to accommodate the 1:200 year flooding event. A new orchard could be a community focus: annual blossom picnics, harvesting events and sale of produce. How would you like to use the park?

ACCESS

HOW CAN WE IMPROVE CONNECTIVITY?

Good connecting routes which are easy to get to and get around, well-designed, and feel safe will encourage more people to walk or wheel. It is important that we understand where people want to go, or if they want routes for making circular walks or runs. We have all valued open space and going for walks, runs and cycles through the pandemic. How can we apply what we have learnt to St. Leonard?













NatureScot uidheann Nàdair na h-A





TELL US YOUR THOUGHTS











THE BENEFITS

- The flooding problem is improved
- We create a better park

- Opportunities for outdoor education
- Improved active travel connections

WHEN WILL THIS HAPPEN?

We are still finalising the programme but at the moment we are working to the following timeline:

Open day

Finalise consultation

High level design

Consult on proposed des solutions

Start detailed design wor

Start work on site The contract may take a months to complete

Completion

HOW CAN YOU GET INVOLVED?

Please fill out a questionnaire. We are interested in knowing your thoughts on water features, local traffic, play facilities, the planning proposals, and activities you would like to see in the park.

The questionnaires are available via the website, or please contact us and we can send you a copy by email (website and contact details right).

If you would like to get involved in the future design, planting and maintenance of the park we would love to hear from you. Leave us your details, which will only be used for this purpose, and we will keep in touch.

ST. LEONARD PARK REGENERATION PART OF THE ST MARY'S STORM WATER MANAGEMENT STRATEGY

• Urban wetlands provide shelter, food and breeding opportunities for a variety of wildlife species including amphibians (such as frogs), plants, insects, birds, bats and other mammals'

• Better opportunities for the community to exercise, play and socialise

	10th June 2021
	July 2021
	August 2021
	Autumn 2021
ork	Winter 2021
around 6	Autumn 2022
	Summer 2023

CONTACT DETAILS

Online:

St Mary's Consultation Response, Scottish Water, Bullion House, 84. Main St, Invergowrie, Dundee DD2 5BE By post: stmarys@scottishwater.co.uk or by email:

The deadline for this consultation is the 23rd July 2021



Please fill in the questionnaire or get in touch.

www.scottishwater.co.uk/stmarys

















