Q&As on C1A project in Glasgow

Q What will Scottish Water's investment in new infrastructure in south west Glasgow do?

A The investment, called the Glasgow Resilience Project, will improve the resilience of the water supply network by connecting the system in the Greater Glasgow area with the Ayrshire network.

Q Who will benefit from this improvement work?
A Almost one million people and businesses in parts of Glasgow, Ayrshire and East Renfrewshire will benefit from the improvements.

Q How will they benefit?
A Connecting the water supply zones will enable Scottish Water to transfer millions of litres of water per day from the Glasgow area to Ayrshire, and vice-versa, if required in an emergency.This will allow the public water and waste water organisation to provide customers with greater security of supply, respond more effectively to burst water mains and other operational issues, and minimise disruption.

Q Where will then work be carried out and what will it involve?
A The work will be in the Ibrox, Mosspark, Pollok, Priesthill, Nitshill and Parkhouse areas of Glasgow. It will involve the installation of 7.5 miles of new water mains which, following investment in Ayrshire and East Renfrewshire in recent years, will be the last of 30 miles of new water main to be constructed during the connection of the two networks.

Q Where will the customers who benefit be?
A The new and expanded network will provide a bi-directional water supply between the Milngavie Water Treatment Works (WTW) system, which provides water for more than 700,000 people across much of the Glasgow area, and the Bradan WTW system which supplies more than 200,000 customers across much of Ayrshire. It will also benefit almost 50,000 customers in East Renfrewshire.

Q Who will carry out the work for Scottish Water?
A The work in Glasgow will be carried out by Caledonia Water Alliance, Scottish Water's alliance partners.

Q When will the work be completed?
A The work is expected to be completed in 2023.

Q What are the key parts of the work?
A It will involve the installation of a new water main from Ibrox to a reservoir storage tank in the Parkhouse/Darnley area. The new main will reinforce the Glasgow network by duplicating a length of an existing trunk main with a new 900mm diameter pipeline, made of ductile iron, which will connect to the existing system near Ibrox Stadium. The work will also involve the construction of a new pumping station at Ibrox, which will transfer water from Milngavie WTW, along the new pipe to our existing Gorbals pumping station in Parkhouse/Darnley for transfer to Ayrshire.

Q How much water will be able to be moved between networks?
A When completed, the system will provide a facility to supply about 50 million litres of water per day into the Bradan WTW supply zone in an emergency and the same in the opposite direction.

Q Where will some of the key parts of the improvements be carried out?
A The installation of the trunk main will include the construction of four tunnels - one under the M8 motorway and the Glasgow-Ayr railway line, another under the Paisley Canal railway and White Cart Water, another under the Glasgow-Barrhead-Kilmarnock railway and a fourth under the Levern Water**.** There will also be road crossings where the main will be installed at 15 locations including, from north to south: Edmiston Drive, Mosspark Boulevard, Corkerhill Road, Kinnell Avenue, Linthaugh Road, Braidcraft Road, Barrhead Road, Nitshill Road, Darnley Road and Corselet Road.

It will also be installed in a number of parks, including Bellahouston Park and Househill Park.

Q Will there be disruption for customers, road users and others?
A There will be disruption and inconvenience to customers and road users in these parts of south west Glasgow as the project progresses. But we will make every effort to minimise this and would remind people that the long-term benefits of this investment will far outweigh the short-term disruption.

Q Will affected customers and others be kept informed about the project and any measures such as road traffic management?
A We will ensure that affected customers and road users are kept informed about our work.

Q Will the improvement work and new infrastructure include reductions in carbon emissions?

A Scottish Water, which is one of Scotland's biggest users of electricity, aims to provide Scotland's daily requirement for more than one billion litres of water entirely on renewable energy by 2040. In line with the company's Routemap to Net Zero, published in September 2019, opportunities for carbon reductions have been explored throughout the design process of the work.

Innovative self-restraining pipe will be used and this will remove the requirement for large concrete thrust blocks and so generate significant carbon savings in the order of 1,600 tonnes of CO2e (embedded), which is the equivalent of the amount of electricity used in more than 270 homes in one year.

The adoption of integrated solar panels will also offset the power demands at the pumping station at Ibrox and the new water mains have been designed to primarily use gravity to help reduce power usage by 60%.

Ends

For further information please contact Keith Sinclair, Media Manager, on **0141 414 7186** or at **keith.sinclair@scottishwater.co.uk**.

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