



# Scottish Water Kippford Wastewater upgrades

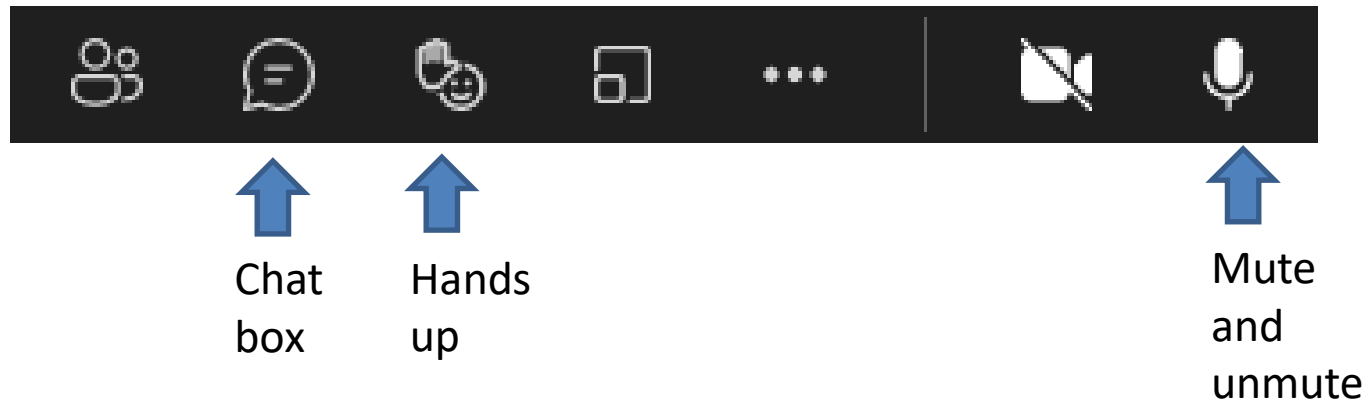
## Agenda

- Meet the team
- Update on the temporary equipment at the existing works
- Update on the permanent works

**Discussion opportunities at set points in the presentation**

## Getting the most out of this session

- Microphones off – Don't be offended if we mute you!
- Hands up button
- Chat box on the right if you would rather type
- Try to avoid speaking over one another
  
- The technology may fail – please be patient!



## Meet the team

Sharon McCaffrey – Project Manager– ESD (Delivery team)

Caroline Mckenzie – Customer Manager – ESD (Delivery team)

Scott Fraser – Corporate Affairs Regional Manager – Scottish Water

Mukesh Gaikwad – Senior Civil Engineer – ESD (Delivery team)

Mark MacLaren – Communications Manager, Temp works – Scottish Water

Jim Tudhope – Project Manager, Temp works – Scottish Water

# Update on the interim solution

- Successful first year with bathing water quality improvements at Rockcliffe
- We will need to reapply for planning permission and are in the process of preparing this
- Look to replicate what is on site this year plus a small access platform below fence height to allow safe access
- Some reported issues around noise and odour which we have tried to remedy and would seek to do more next year on this
- Equipment due to be taken offsite from 27<sup>th</sup> September. This will require a road closure.



# Permanent works – Transfer Pumping Station

## Visual Impact

The design of the new pumping station is still developing, however the current options are:

1. The existing building will be retained and an additional kiosk may be added (approx. dimensions 3m x 2m x 1m).

**OR**

2. The existing building will be demolished and replaced with a similar sized kiosk in a slightly different location

## Noise

We are replacing the existing pumps with new pumps and no increase in noise levels is anticipated.

However a noise survey will be undertaken prior to and after construction

## Odour

There should be no increased odour from the conversion of the existing treatment works to a pumping station.



The existing building will be retained and converted for re-use as a transfer pumping station

# Permanent works – Rising Main Pipeline

The new rising main will be installed to accommodate the pumped flow from the transfer pumping station to the new treatment work.

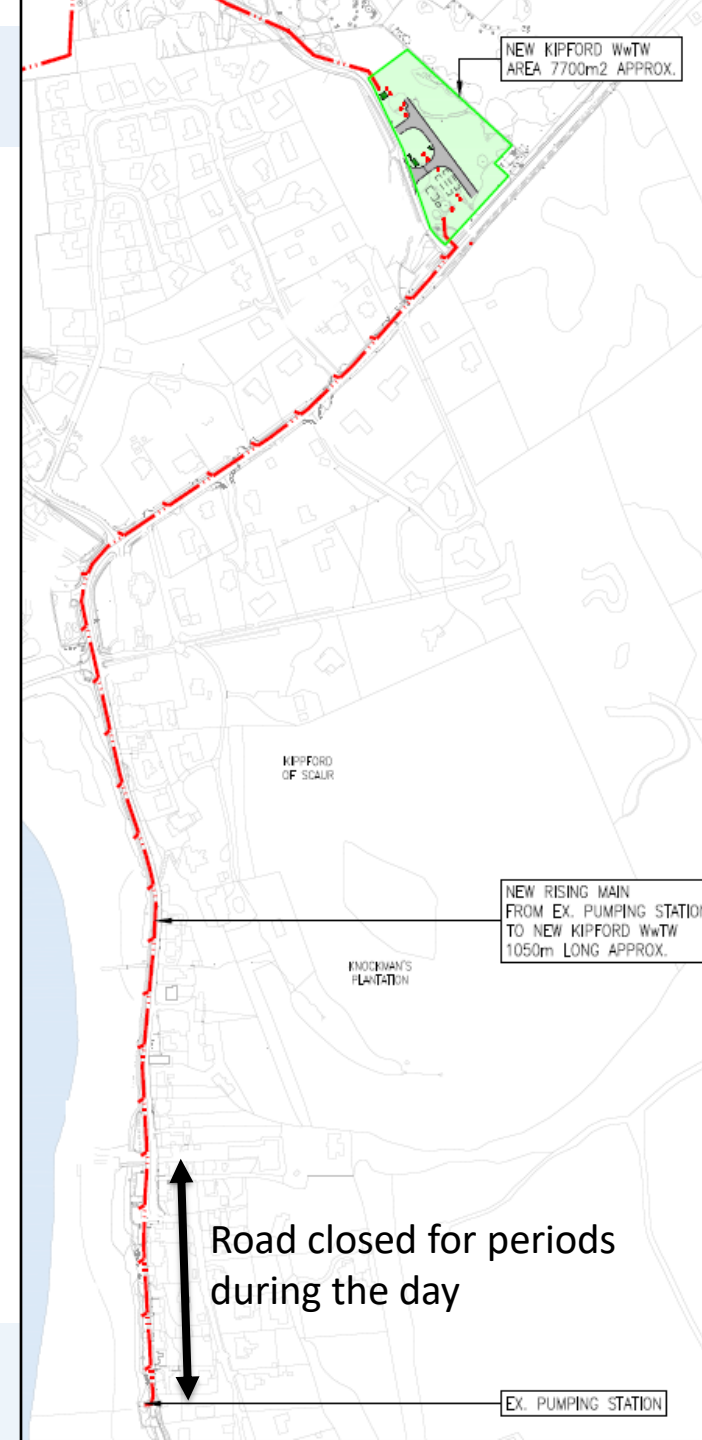
The new rising main will be routed along Roughfirth road from the existing WwTW to the new WwTW

It is expected that one lane of the two lane road will be closed in sections at any one time.

The single track access between the Arc and the existing treatment works will be closed for periods during the day, however access for emergency vehicles will be available at all times.

Road closure works will be programmed outwith the tourist season where possible

Flows from upstream will be taken into the works by gravity



## Discussion – 10mins

- Pedestrian / Emergency access to be maintained
- How long could we close the road for? 8am – 6pm?
- Shorter closures will mean works on road will last longer but may be less disruptive?
- What is the best way to have further discussions on this locally?





# Location – a reminder



# Permanent works – New Wastewater Treatment Works (WwTW)

## Visual Impact

Majority of structures installed below ground

Landscape architect will produce planting proposal for screening of new WwTW for comment/input from the community

## Noise

Noise survey will be undertaken prior to and after construction

Construction noise will be minimised where possible and will be monitored throughout

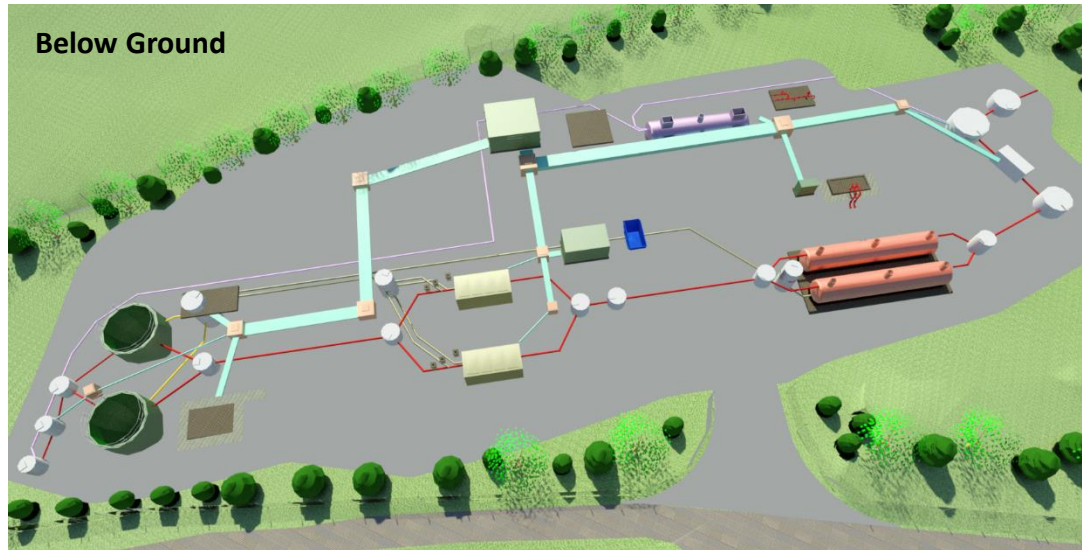
## Odour

Odour study completed by Specialist Consultant and recommendations have been implemented in the design

Above Ground



Below Ground



# Permanent works - Outfall



Dispersion modelling has been undertaken for the outfall entering the river to determine the optimal location

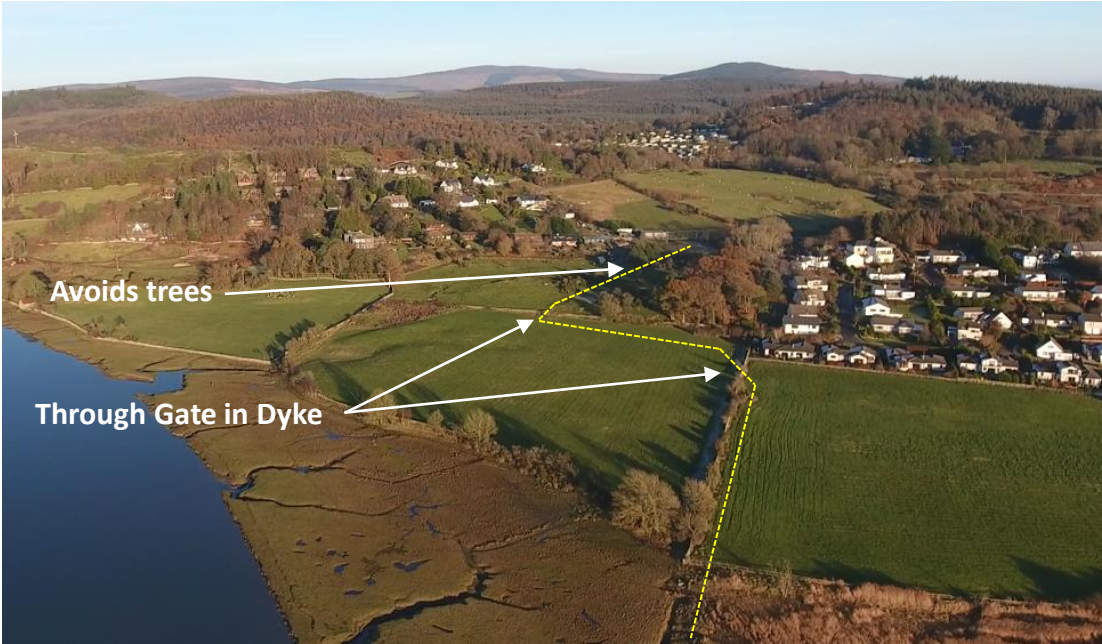
This location has then been agreed with SEPA

Environmental advisors have recommended the outfall route avoids the existing tree line

The outfall is routed to avoid any disturbance to the existing dry stone dyke walls

Avoids going through middle of field to enable land to be used / farmed in future

The outfall pipe will be installed below ground



# Upcoming Surveys

## **Asbestos in existing WwTW**

Some found and currently planned for removal in October

## **Ecology Survey at new WwTW location**

An Ecologist will survey the new treatment works location looking for Flora, Fauna and Wildlife

## **Bathymetric survey (river bed levels)**

A small boat will be utilised to determine the current river bed levels at the location of the outfall

## **Topographical survey where outfall enters river**

A surveyor will access the area where the outfall enters the river to determine the ground level in that area.

## **Noise survey**

Noise equipment will be installed at the existing treatment works, the new treatment works and points in between to determine the current noise levels. The survey company will visit Kippford prior to undertaking the survey to determine the best location for the noise equipment.

# Planned Start



Currently the estimated start date for the construction work is Summer 2023, however this is based on a number of factors that may change as the project develops.

We are looking at what dates could be pulled in and revised

As part of the updates, we will keep you informed if this date changes.

## **We aim to host sessions like this at project milestones**

Approx. high level timescales for the project, prior to starting on site:

- Initial design phase – 2-3 months remaining
- Estimating Phase – 4 months
- Governance and approval process – 2 months
- Detailed Design Phase (including Planning Application, Land Purchase & obtaining Marine Scotland License) – 7-8 months
- Final Governance – 1 month
- Procurement & mobilisation period – 3 months
- Estimated Start on Site – Summer 2023