

# PROTECTING WINDERMERE FOR FUTURE GENERATIONS

Only Rainwater into Windermere (ORiW):  
a once-in-a-lifetime opportunity for England's greatest lake.



Find out more at  
[oriw.co.uk](http://oriw.co.uk)

## Benefits of ORiW

Approximately  
**12,800**  
people with access to public  
sewerage for the first time

Up to  
**138km**  
of new network

Up to  
**75%**  
increase in wastewater  
infrastructure

**35km**  
of highway drainage  
intercepted

**£7.5bn**  
economic benefit over  
the life of the asset

Creating jobs and supporting  
**£2.4bn**  
value to the visitor economy in  
the Lake District National Park



### A 'one and done' programme

Breaks the cycle of repeated disruption from incremental investments, creating lasting environmental, social and economic value.



### Fully integrated sewerage network

A new catchment-wide network brings public and private wastewater together through one coordinated system.



### First-time sewerage

Approximately 12,800 people could benefit from connection to public sewerage services for the first time.



### Rainwater kept in the natural environment

Surface water separation and sustainable, nature-based drainage systems to support greener rainwater management.



### Doing nothing is not an option

Receiving over 2.5 metres of rain annually, with a significant proportion of combined sewers, the catchment requires circa £2.5 billion investment in the next 100 years. ORiW delivers faster, better outcomes within seven years.



### State-of-the-art treatment

Wastewater returned to the environment at the highest possible standard, downstream of Windermere, removing any discharges into the lake.



### Constructable in seven years

A solution that can be delivered at pace, create high-quality jobs for the local economy and leave a lasting legacy of a Cumbrian skills academy.



### Resilient for the next century

The system is designed to remain effective beyond 2100 under a range of future climate scenarios and make the lake resilient to change.



### Driving long-term recovery

Removing wastewater, the most significant controllable source of nutrients, supports a cleaner, healthier lake for generations to come.

## The future outcome

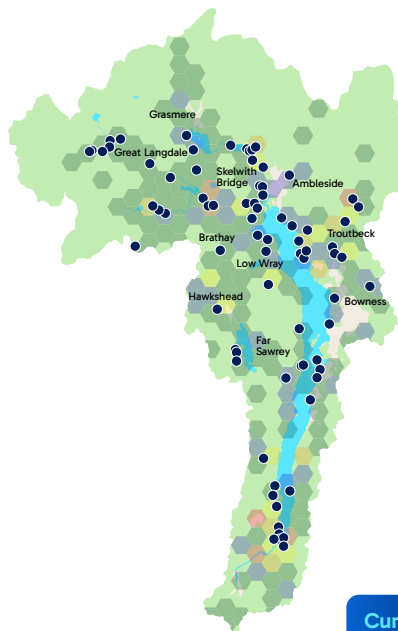
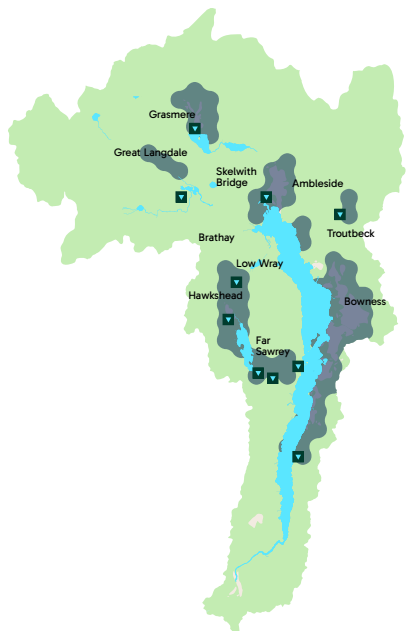
- ✓ 100-year solution setting new standards for freshwater ecology in the UK
- ✓ A coordinated, catchment-scale restoration programme
- ✓ Diverting treated and untreated wastewater inputs and tackling highways run-off at source
- ✓ Future-proofing Windermere against the pressures of climate change
- ✓ Securing the long-term ecological recovery of England's largest natural lake

# ONLY RAINWATER INTO WINDERMERE (ORiW): AN INTEGRATED SOLUTION FOR PUBLIC AND PRIVATE WASTEWATER

UU current drainage areas:  
181km network; 10 treatment works

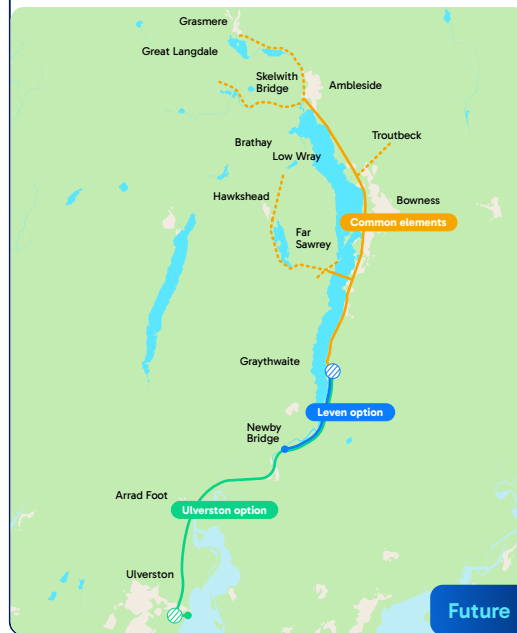


Circa 1,800 septic tanks and  
around 90 private package plants



Current

ORiW: 75% increase in sewerage network  
(additional 138km to 319km in total)  
and one state-of-the-art treatment works



Future

## Key

### United Utilities (UU)

- UU network area
- Existing UU WwTW

### Estimated number of septic tanks per hexagon (500m side):

- 1-10
- 11-20
- 21-30
- 31-40
- 41-90
- Non-UU outfall point

### Common elements

- Gravity tunnel
- Single rising main or gravity network

### Leven option

- Transfer route
- Upgraded WwTW
- Outfall point

### Ulverston option

- Transfer route
- Upgraded WwTW
- Outfall point