



HARP update to Waddington Parish Council

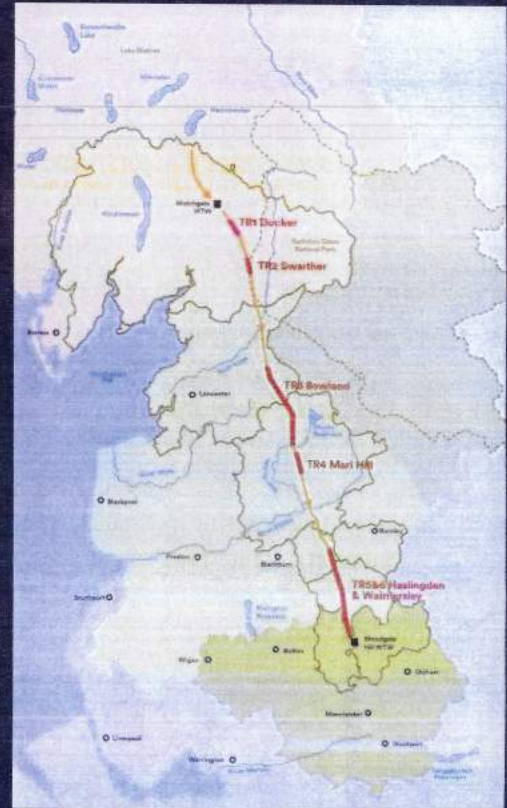
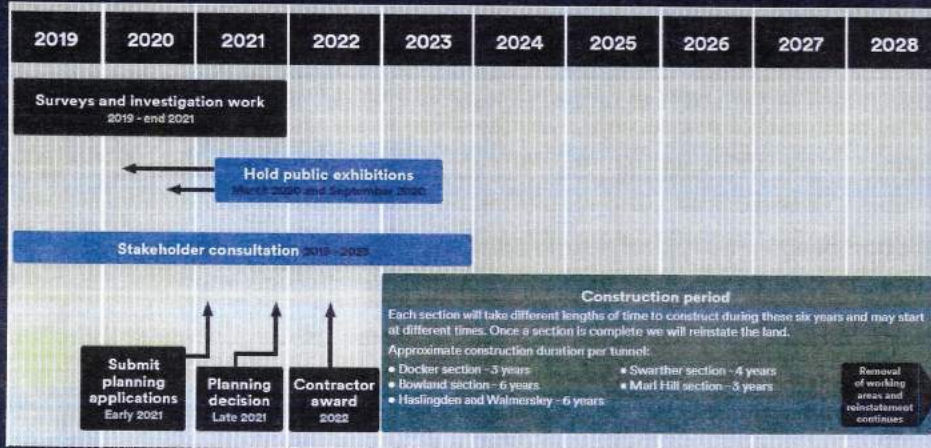
11:30am Thursday 28th May 2020

St Helen's Church, Waddington

Chris Tighe

HARP - Haweswater Aqueduct Resilience Programme

- 2012 – connected the Liverpool and Manchester water supply network
- 2013 – First outage and inspection
- 2016 – Second outage and inspection
- 2019 – New 'Hallbank' Tunnel construction

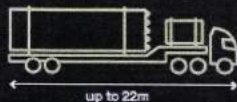


Supply water to customers fed from the HA whilst reducing the future risks to water quality and supply.

Our working areas

Bowland

What sort of traffic should you expect?



Abnormal loads:
from 3m wide and 18m long (Cranes)
to 4.3m wide and 22m long (Tunnel boring machine)



Large construction vehicles:
20 tonne 8 wheel tipper
2.5m wide and 9.1m long



Light vehicles:
Cars and transit vans

Not to scale

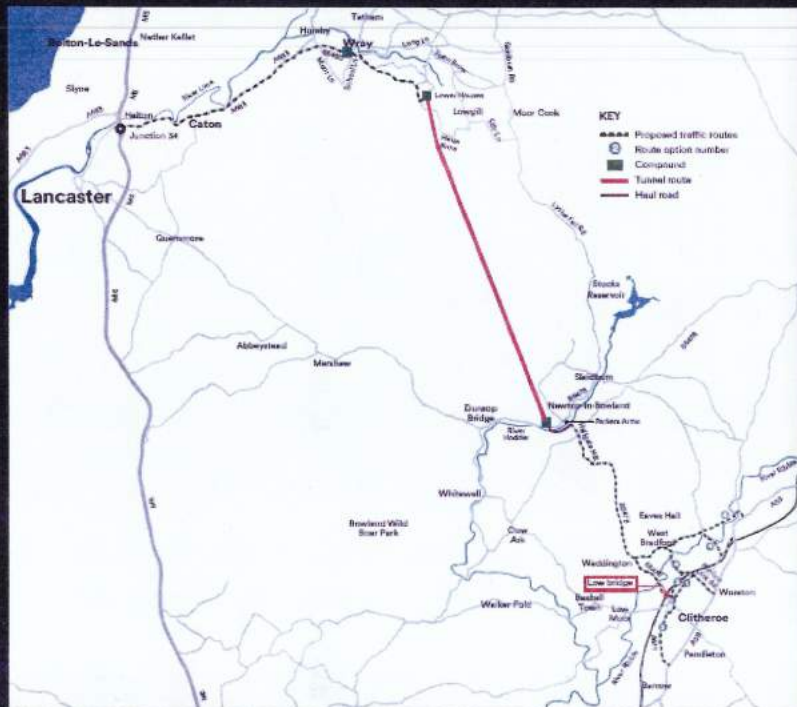
Vehicle movements

Construction projects of this nature can generate a lot of vehicle movements depending on the activity, we will need to:

- build the working areas
- deliver machinery and materials
- transport surplus material

We estimate an average of between 5 - 15 vehicles per hour (depending on the activity).

We are working closely with the local highways authorities and doing all we can to reduce the impact on the roads.



Our working areas

Marl Hill

What sort of traffic should you expect?



Abnormal loads:
from 3m wide and 18m long (Cranes)
to 4.3m wide and 22m long (Tunnel boring machine)



Large construction vehicles:
20 tonne 8 wheel tipper
2.5m wide and 9.1m long



Light vehicles:
Cars and transit vans

Not to scale

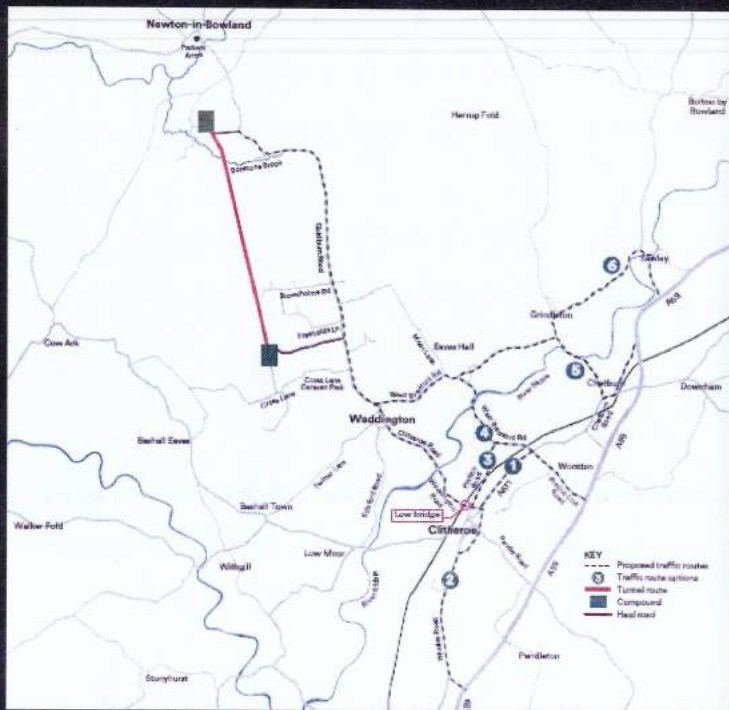
Vehicle movements

Construction projects of this nature can generate a lot of vehicle movements depending on the activity, we will need to:

- build the working areas
- deliver machinery and materials
- transport surplus material

We estimate an average of between 5 - 15 vehicles per hour (depending on the activity).

We are working closely with the local highways authorities and doing all we can to reduce the impact on the roads.



Example of our working areas and equipment



Water for the North West