

Waterview Connection Video Answers

Wednesday 27 August

1. Well-Connected Alliance

Meet Glen Kirk at the Waterview Connection site office and discover how different companies are working together to complete the Western Ring Route.

1. What is an alliance?
 - When organisations or companies come together to get a project done quickly
2. People from how many different nationalities are involved in this project?
 - 30
3. How does the Well-Connected Alliance work together?
 - By setting common goals and creating a good working culture where everyone treats each other how they'd like to be treated themselves.

Next step learning: What other big projects in New Zealand are being done by an Alliance?

2. Creating Lasting Legacies

Wander up the partially built Hendon Footbridge to look out over the Southern Approach Trench and see how this area has been changed.

1. What has been done with Oakley Creek?
 - It has been moved and changed from a channel to a more natural looking creek
2. What used to be in this area?
 - Sports fields and dog training areas
3. What is the Hendon Footbridge part of?
 - A shared cycle way and walkway

Next step learning: Imagine you are an urban designer that has been asked to design a foot bridge close to Waterview Connection, think about what would be needed and draw your own design.

3. Preparing the Southern Approach Trench

Find out how the Southern Approach Trench is being built.

1. What were the first steps in preparing the tunnel approach?
 - Bring in diggers and heavy machinery to create the link with State Highway 20, build a bridge to link up Richardson Road and dig the trench
2. How was the trench created?
 - By digging down into the ground, putting down hundreds of piles and blasting rock out
3. What happened to the rock that was excavated?
 - It was taken to Wiri Quarry and crushed and brought back to use on site

Next step learning: Find out more about the blasting process and how this was managed.

4. Progress on the Southern Vent Building

Meet Site Engineer Ben Scott and take in the view over the tunnel portal to see how the Southern Vent Building is progressing.

1. Why is the vent building important?
 - It is where everything for the tunnel is controlled from
2. What happens if there is a fire in the tunnel?
 - The deluge system is used to put out the fire through use of heavy duty sprinklers
3. What have been some of the challenges in starting the construction of the vent building?
 - Working around the tunneling team and planning the building to make sure it is well designed and looks good

Next step learning: Take a look at design drawings of the Southern Vent Building to see what it will look like and create your own design.

5. Site Safety

Have a chat with Jay Lauten the Health and Safety Coordinator and find out how workers can keep safe on site.

1. What are some of the main hazards on site?
 - Big moving machinery, traffic, working at height and working in confined spaces
2. What protective clothing do you need to wear?
 - Hard hat, glasses, gloves, high-vis vest and boots
3. What is the goal on for safety on site?
 - Zero harm by having a good safety culture which everyone commits to

Next step learning: Make a list of hazards on site and how these could be managed.