

CENTRAL INTERCEPTOR BULLETIN

Keith Hay Park site Arundel Road, Hillsborough



Changes coming to Keith Hay Park site

As with most of the country, the Keith Hay Park site team has worked through the challenges of construction interruptions. Since our first notice we have finished the temporary boardwalk and put up hoardings to make the site secure and protect our close neighbours from noise. Our new haul road from Arundel St was used to safely deconstruct and remove the house at 22 Gregory Place.

The team at Keith Hay Park is now focussing on constructing the piling platform for shaft construction. We also have investigation works in several areas along Keith Hay Park. These will help us plan the smaller pipeline

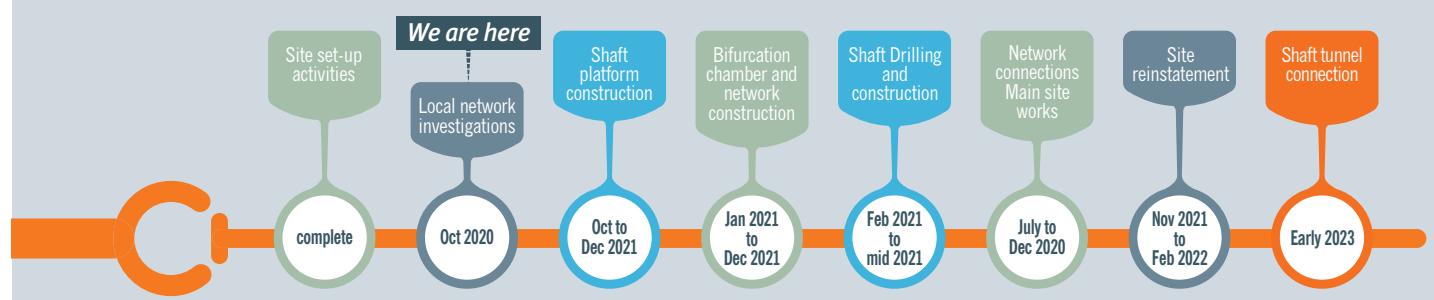
being built along the edge of the playing fields and at Frost Road. We will set up this site by the end of the year.

In the new year you will see a change in the skyline as our tall drilling machinery arrives on site. Due to its size and for road safety we'll bring it in during the early hours of the morning. This rig will construct the primary shaft which will be 79m deep.

In early 2021, the current temporary board fencing on the field side will be extended into the park to make space for a new construction area. This is for a bifurcation chamber which will enable the existing wastewater line to overflow into the new drop shaft. This new work site will mean a new temporary footpath diversion through parts of the Keith Hay Park.

COVID-19 has interrupted our construction programme with delays of equipment and specialised construction staff not being able to travel. Timelines at all our construction sites will be a moving target for some time but we will still meet the overall deadline of project completion in 2025.

This is the timeline showing the main activities for all the Keith Hay Park Sites:





Local tamariki name our tunnel boring machine

Watercare and Ghella Abergeldie Joint Venture recently engaged with tamariki in schools along the Central Interceptor route. We asked them to help us choose a name for the tunnel boring machine (TBM).

The inspiration for the name was Matariki. We explained to the tamariki that in te ao Māori our astronomy and stars are linked to te Taiao or the natural environment.

For the name, we gave the tamariki a shortlist of five stars from the Matariki cluster. They then voted for the star whose characteristics most resonated with them and the goals of the CI project.

The most popular choice was Hiwa-i-te-Rangi which represents vigorous growth and speaks to the growth of Tāmaki Makaurau. What really connected the tamariki to her is that she is the star you send your dreams and wishes to for the year ahead in the hopes they will be realised.

The five participating schools all went into a draw to win 10 Chrome books and Hay Park School in Mt Roskill was the lucky winner.

We presented a set of art supplies to all participating schools to create artwork to decorate the TBM. The symbols for Hiwa-i-te-Rangi will be added after she arrives in November and before she begins to dig in 2021.



We encourage you to receive these updates electronically - send us your email, your current mailing address and quote "Sign me up: Keith Hay Park site bulletin" to ciproject@water.co.nz

What is surveying and why do we need it?

Surveyors can be seen wandering about with their wizard sticks, funny cameras and playing with remote control helicopters. What on Earth could they be doing?

Surveyors use various instruments to determine the relative positions of points on, above and below the earth's surface using direction and bearings, horizontal distance and elevation.

There are many important purposes of surveying on the Central Interceptor. Have you ever wondered how the tunnel boring machine (TBM) will get from Māngere to Grey Lynn, making its way through the centre of 17 shafts within millimetres of the design alignment?

Driving a TBM deep underground is complicated and difficult, like driving a car in complete darkness! Somehow the operator needs to know where the TBM is and steer along a "virtual road" in total darkness. Monitoring and updating the exact location and heading of the TBM and providing direction – that's the surveyor's role! They use high accuracy instruments that measure to less than 1mm. When building such a long tunnel, a millimetre in the wrong direction at the start, could mean we miss the finish line by the end!

The GA-JV survey team members can be seen everywhere on mountain tops, in residents' back yards, on site, down shafts and deep inside the tunnel. Their primary role is precision control survey work above and below the ground and with guiding the direction of tunnel construction. They also assist in geological investigation, powerline clearance measurements, condition surveys on properties and checking on ground settlement in the path of the tunnel drive.



Surveyor Breana Langford on site.

Our people

Introducing one of our incredible team members working in your local area.

Name: Hyun Kim

Position: Site Engineer for Keith Hay Park

Role on site: Ensure construction is completed safely, accurately and to a high standard.

Background: Born in South Korea. Moved here living the immigrant dream of one day owning a house.

Previous jobs: Southern Corridor Improvements, Transmission Gully and Albany Highway North Upgrade (Intern)

Most memorable work moment: Completing two motorway bridges over the railway on Southern Corridor Improvements project. Started from putting the piles in the ground to putting asphalt over the bridges. An incredible moment when they were opened; months of hard work and working every public holiday.

Outside of work: I like to read books, watch movies and go cycling, and be a dutiful son.



Any questions?

For up to date information please see our website:

 www.centralinterceptor.co.nz

You can also email us at:

 ciproject@water.co.nz

Or phone:

 0800 GAJV 02 (0800425802)

[www.centralinterceptor.co.nz]

Keith Hay Park Open Day and BBQ: Saturday, 14 November 2020

Come along and see our Keith Hay Park site. We will be opening the gates from 10:00am – 12 noon. Our team will be on hand to answer questions and show you where we will construct the 79m-deep shaft.