

community space. with life. There are also new and improved facilities, turning the river and park into a vibrant to be a utilitarian, concrete canal has been transformed into a beautiful, natural river teeming residents. Carried out in tandem with the rejuvenation of Bishan-Ang Mo Kio Park, what used A lush, meandering waterway now flows right at the doorsteps of Bishan and Ang Mo Kio

term initiative to beautify Singapore's waterscape. water agency PUB under the Active, Beautiful, Clean Waters (ABC Waters) Programme, a long-This project is a joint collaboration between the National Parks Board (NParks), and national

ABC Waters Programme. Bishan-Ang Mo Kio Park, the flagship project of PUB's lite, a haven for biodiversity - this is Kallang River @ doorsteps, a vibrant community space teeming with A naturalised, meandering waterway right at the

park. The cleansed water is then returned to the ponds, eventually cascading back to the river. features such as a cleansing biotope also helps to treat water from the river and ponds in the to prevent soil erosion, and form natural habitats that enrich the park's biodiversity. Design river edges using a variety of plants and bedding materials. This method helps stabilise the slope concrete 2.7km canal (Kallang River) into a 3km long sinuous, natural river, with bio-engineered Officially opened on 17 March 2012, the project is the first of its kind in Singapore to transform a

the park and creates more spaces for the community. carrying the rainwater downstream to Marina Reservoir. This enables multiple land uses within the river. During heavy rain, the park land next to the river doubles up as a conveyance channel, river banks during dry weather where water flow is confined to a narrow stream in the middle of Designed based on a flood plain concept, park users can enjoy recreational activities along the

appreciation of this precious resource. Park, it continues to tultil a greater mission of fostering a sense of communal ownership and Today, as the rejuvenated river brings the community closer to water at Bishan-Ang Mo Kio



techniques) have been used to stabilise the river banks to prevent erosion. engineering techniques (a combination of vegetation, natural materials and civil engineering The highlight of this project is the revitalisation of the river. A first in the tropics, soil bio-

a downpour, the river doubles up as a conveyance channel, carrying rainwater downstream. users can get closer to the water and enjoy recreational activities along the river banks. During waterscape creates multiple land uses in the park. When the water level in the river is low, of locally available plants that passed the rigorous tests were selected. Now, the changing efficient and effective construction methods. Seven of these techniques and a selection bed was used to refine the selection of appropriate techniques and plants, as well as the most As soil bio-engineering is largely untested in the tropics and South East Asia, a 60m long test



be confined to a narrow stream in the middle flood plain concept, where water flow would The naturalised river was designed based on a

urbanization of the area. the surroundings due to increased for the increased rainwater runoff from flow downstream. This helps in catering as a conveyance channel, carrying the land that is next to the river doubles up level in the river will rise and the park get closer to water. When it rains, water banks are gently sloped so park visitors car of the river on dry weather days. The river



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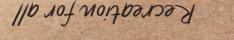


various age groups and abilities. Bishan-Ang Mo Kio Park features a diversity of playground themes to engage children of

Building playgrounds for all

and exploratory play. features; and the Adventure Playground has a naturalistic design to encourage imagination Biotope; the Inclusive Playground is an all-access play facility with wheelchair-accessible The Water Playground stimulates sensory play with treated water from the Cleansing

upgraded to a 'Inclusive Playground' where children of different abilities can play together. invites slightly older children to climb and explore while the Bubble Playground has been The Water Playground uses recycled water from the pond; the Adventure Playground



Lecredtion and Relaxation

gardens, therapeutic garden, and tracks for cycling or jogging. playgrounds, dog runs, open lawns, restaurants, community and allotment is a great place for families to have a fun day out. Park facilities includes One of the largest urban parks in central Singapore, Bishan-Ang Mo Kio Park





Examples of techniques used

multiply over time. This helps to contribute to the biodiversity of the park. establish, forming natural habitats that encourage certain wildlife species to settle and These techniques are made of natural materials and plants that will also develop and

rocks and vegetation, and civil engineering techniques to stabilise the river banks and

Soil bio-engineering techniques involves a combination of natural materials such as

Soil Bio-engineering Techniques



lifts, reed rolls, gabions, and brush mattresses with fascines. river at Bishan-Ang Mo Kio Park. These include rip-rap with cuttings, geotextile wrapped soiltechniques. Following this, 7 most appropriate techniques were then applied along the main A testbed was constructed in 2009, prior to the commencement of the project, to test out 10 ▲ Test bed

protect them from erosion.

Visitor Information

To the Park

Road	Name	By Bus	Nearest Train Station
ANG MO KIO AVENUE 1			
1	Bus Stop 1	132, 165, 166, 169	Ang Mo Kio MRT
2	Bus Stop 2	132, 165, 166, 169	
3	Bus Stop 3	71, 262	
4	Bus Stop 4	71, 262	
5	Bus Stop 5	71, 133, 136, 262	
6	Bus Stop 6	71, 133, 136, 262	
7	Bus Stop 7	71, 133, 136, 262	
BISHAN ROAD			
8	Bus Stop 8	50, 53, 55, 55B, 58, 71, 156, 162, 162M	Bishan MRT

ed Learning Trail

Participate in the ABC Waters Learning Trail @ Kallang River @ Bishan - Ang Mo Kio Park:

- Learn about water sustainability and the Four National Taps including the water cycle and water treatment processes
- Learn about the concept of ABC Waters Programme and ABC Waters design features
- Gain insights into the unique bioengineering techniques put in place to transform a concrete canal into a naturalised river at Bishan - Ang Mo Kio Park
- Get your feet wet as you explore aquatic life in the water, by the water and around the water

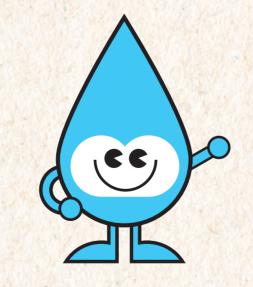


Download the resource package for an experiential learning experience at our ABC Waters site:

 Student's Learning Trail Booklet https://www.pub.gov.sg/Documents/ KRBAMKParkStudentTrail.pdf

 Trainer's Guide https://www.pub.gov.sg/Documents/ ABC_Waters_KRBP_Trainer_Guide.pdf

For more information, please visit the web site at https://www.pub.gov.sg/abcwaters



About the Active, Beautiful, Clean Waters (ABC Waters) Programme

Singapore's blue network comprises 17 reservoirs and a pervasive network of rivers, canals and drains.

Launched in April 2006, the Active, Beautiful, Clean Waters (ABC Waters) Programme aims to transform Singapore's waterways and waterbodies beyond their utilitarian functions into beautiful and vibrant streams, rivers and lakes. Through the programme, PUB creates community and recreational nodes close to water that people can enjoy so that they can cherish this precious resource and in turn, keep our waters clean.

To date, more than 35 projects have been completed by PUB.

OPUB BEAUTIFUL, CLEAN WATERS

Kallang River
@BishanAng Mo Kio
Park

