In 2019, Singapore celebrates 200 years of the intersection between our history and our natural heritage – entrenched in our nature ways and nature reserves, our parks and park connectors, as well as our flora and fauna.

The idea for a national garden was planted in 1822 when Sir Stamford Raffles, the founder of modern Singapore, developed the first Botanical and Experimental Garden at Fort Canning. In 1859, the Singapore Botanic Gardens was established at the Tanglin site and in the 160 years past, it has flourished from a pleasure garden for the colonial community to a place cherished by all Singaporeans, a botanical institution known internationally.

Singapore’s greening journey took root in the 1960s when founding Prime Minister, Mr. Lee Kuan Yew planted a Mempat Tree at Farrer Circus. This kickstarted a national effort for tree planting, sowing the seed of a green home where beautiful parks and green belts would be the birthright of every Singaporean.

Today, the intricate lattice of greenery we have woven into the cityscape supports thriving biodiversity and provides residents with a quality living environment. This not only draws the appreciation and marvel of visitors, but has become a part of our national identity. This is the green culture we now impart to the next generation as we continue living harmoniously with nature.
Chairman’s Message

Vested with the mission to make Singapore our City in a Garden, NParks aspires to create the best living environment for our residents.

In 2019, Singapore commemorates our bicentennial, re-visiting not only the history of modern Singapore since 1819 but also re-visiting and re-vitalising the story of its less well-known but no less rich pre-modern history dating almost 500 years before that.

The Bicentennial Office (PMO) chose Fort Canning Park as the site hosting the centre-piece of the national bicentennial programme – a spectacular multi-media sensory experience telling the story of 700 years of Singapore history. Fort Canning (“Government Hill” under the British or “Bukit Larangan” in the earlier times of local Malay kings) is an iconic site in Singapore’s historical geography.

Fort Canning housed our first “botanic gardens” as plants of economic or potential economic significance were planted there for study by Raffles and Farquhar. It represents a unique convergence of our history and our rich natural heritage. NParks officers worked hard to develop and articulate this heritage and these efforts came to fruition in 2019 with the creation and completion of nine historical gardens reflecting a time-line dating to the 14th century.

This reporting year has been an active time for our officers on many other fronts.

We commemorated the International Year of the Reef, establishing Singapore’s largest purpose-built reef structures at the Sisters’ Islands Marine Park. We celebrated 25 Years of Community Stewardship in Nature Conservation, acknowledging and recognising the critical importance of an active and informed citizen partnership in these endeavours.

Singaporeans have been consistent in their love for Nature. The Singapore Garden Festival in 2018 welcomed a record number of more than 600,000 local and international visitors. Our Festival of Biodiversity involving 44 partners reached out to 31,000 people. We also saw a record number of participating gardens in the Community In Bloom Awards in 2018 – almost 550 gardens took part in this event.

We also worked hard to enhance the competencies of the local landscape and horticulture industries. In 2018, CUGE offered more than 1,700 WSQ training places, with more than 90% of Singapore’s landscape workforce covered under the Landscape Progressive Wage Model.

NParks as an organisation has also been assigned new functions, taking over some of the work previously performed by AVA.

In this connection, the newly formed Animal & Veterinary Service cluster in NParks will serve to be the main touch-point on animal and veterinary-related issues for pet owners and businesses, and animal welfare groups. As the first responder for animal-related feedback, it has an important role in ensuring animals and humans in our society stay healthy and safe from the threat of animal diseases.

Much has been done over this busy year. This would not have been possible without the continued commitment and support of our volunteers, our partners in the corporate, civic and public service realms.

We thank you for your support and invite you to continue on this journey with us in NParks to create a city in a garden and a biophilic society, where a love for and connection with Nature may cultivate over time, a culture of care beyond self – a care for others and for the environment we share each day with all things living.

Mr Benny Lim
Chairman, National Parks Board
Members of the Board
As of October 2019

MR BENNY LIM
Chairman
Mr Benny Lim was Permanent Secretary of the Ministry of National Development from 2011 to 2016, and held concurrent appointments as Permanent Secretary in the Prime Minister’s Office and for National Security & Intelligence Coordination. Prior to that, he was Permanent Secretary of the Ministry of Home Affairs from 2003 to 2011. Mr Lim was awarded the Meritorious Service Medal in 2010. He retired from the Civil Service in 2016 and serves presently as Special Advisor to the Centre for Liveable Cities, Special Advisor to the National Security Studies Programme, RSIS/NTU as well as Chairman of Temasek Foundation Connects CLG.

ANDREAS SOHMEN-PAO
Board Member
Mr Sohmen-Pao is Chairman of BW Group Limited, BW LPG Limited, BW Offshore Limited and Singapore Maritime Foundation. He is also a non-executive director of Singapore Symphonia Company Ltd. Mr Sohmen-Pao was previously Chief Executive Officer of BW Group. He has also served as a non-executive director of the Hongkong Shanghai Banking Corporation, Maritime and Port Authority of Singapore, Sport Singapore and The Esplanade Co Ltd amongst others. Mr Sohmen-Pao holds an honours degree (BA Hons) from Oxford University and an MBA from Harvard Business School.

WARREN FERNANDEZ
Board Member
Mr Fernandez is Editor-in-Chief of The Straits Times and English/Malay/Tamil Media Group of Singapore Press Holdings (SPH). He has been with SPH since 1990. Mr Fernandez graduated with First Class Honours from Oxford University, where he read Philosophy, Politics and Economics, and also has a Master’s Degree in Public Administration from Harvard University. He is currently a board member of National Heritage Board, SPH (Overseas) Ltd, SPH (America) Ltd. The Straits Times Press Ltd, and is Chairman of the board for The Straits Times School Pocket Money Fund.

DR SURIANI SURATMAN
Board Member
Dr Suriiani is Senior Lecturer at the Department of Malay Studies, National University of Singapore. She is trained as a social anthropologist. Her teaching and research cover areas on Malay culture and society. She has conducted research in Singapore, Malaysia and the Philippines. She is currently Deputy Chairman of the Malay Heritage Foundation Board of Directors. She is also a board member of the National Gallery Singapore and National Heritage Board. In addition, Dr Suriaini is a potter and has done commissioned creative pieces for Temasek Holdings, The Sentosa Resort and Spa, National Heritage Board, Patron of the Year Award and Singapore International Foundation.

GUY HARVEY-SAMUEL
Board Member
Mr Harvey-Samuel was formerly Group General Manager, Chief Executive Officer of The Hongkong and Shanghai Banking Corporation Limited (HSBC), Singapore. A member of HSBC’s Asian Executive Committee, Mr Harvey-Samuel was directly responsible for all HSBC operations based in Singapore. He continues to serve HSBC as a non-executive Director, and is also currently a member of the Advisory Board of the National Youth Achievement Award Council and National Arts Council, as well as the boards of Surbana Jurong Private Limited and Jurong Town Corporation.

GEORGE HUANG
Board Member
Mr Huang is Managing Director of Amry Canning Corporation (S) Ltd, a pioneer in the food processing industry in Asia. An active leader and contributor in business and the community, he serves on the boards and committees of various organisations including Singapore Manufacturing Federation, Singapore Business Advisors & Consultants Council and Consumers Association of Singapore. He was also formerly the Honorary Consul General of the Federal Democratic Republic of Ethiopia to Singapore.

CHENG HSING YAO
Board Member
Mr Cheng is the Group Managing Director of GuocoLand Singapore and a director of Eco World International Berhad. He joined GuocoLand Singapore in 2012. Prior to this, he was with the public service, holding leadership positions at the Centre for Liveable Cities and Urban Redevelopment Authority (URA). He is a member of URA’s Design Advisory Committee as well as Heritage and Identity Partnership, and a member of the Urban Land Institute Singapore Executive Committee. He holds a Bachelor of Architecture from Newcastle University, UK, and a Master in Design Studies from Harvard University.

MS SHANTINI RAMACHANDRA
Board Member
Ms Shantini is a Tax Partner at Deloitte & Touche LLP and the South East Asia Tax Leader for Deloitte Private. She has a Bachelor of Laws degree from the National University of Singapore and a Master of Laws degree from the University of London, King’s College. She has been admitted as an Advocate and Solicitor of the Supreme Court of Singapore and is also an Accredited Tax Advisor (Income Tax) with the Singapore Institute of Accredited Tax Professionals Limited. Ms Shantini practised law in the area of commercial and corporate law before joining a Big Four accounting firm and has about 20 years of international tax experience.

MUSA FAZAL
Board Member
Mr Fazal has been a partner at Deloitte & Touche LLP. He is the Managing Partner of the firm and has about 20 years of international experience. His expertise includes international tax law in the area of commercial and corporate law before joining a Big Four accounting firm. He heads the Deloitte Tax Department and has been involved in national tax planning and international tax structuring. He is also a respected teacher and writer on various aspects of international tax law. He is a member of the Singapore Bar, a member of the American Bar Association, a member of the American Institute of Certified Public Accountants, and a Fellow of the Singapore Institute of Certified Public Accountants. He is the Chairman of the Deloitte Tax Department and has been involved in national tax planning and international tax structuring.

KENNETH ER
Board Member and Chief Executive Officer
Mr Er began his career in National Parks Board (NParks) and has been involved in the planning, implementation and management of parks and streetscapes in the city. In 2003, he was seconded to the Ministry of National Development, where he oversaw policies and was actively involved in the review of legislation pertaining to parks and greenery infrastructure, agri-veterinary issues, and building and construction. Mr Er was subsequently appointed General Manager at Gardens by the Bay, where he played a pivotal role in developing the Gardens from concept to form. He was also concurrently Assistant Chief Executive Officer (Corporate Development & Services) at NParks. He was appointed Chief Operating Officer of Gardens by the Bay in 2012. Mr Er is presently the Chief Executive Officer of NParks.
Management Team
As of October 2019

LEFT TO RIGHT

KONG YIT SAN
Assistant Chief Executive Officer, Park Management & Lifestyle Cluster

DAMIAN TANG
Senior Director, Design

BIN HEE JUM
Group Director, Finance & Procurement

LIM LIANG JIM
Group Director, National Biodiversity Centre

OH CHEOW SHENG
Group Director, Streetscape

WONG TUAN WAH
Group Director, Fort Canning Park & Istana and Senior Curator, Istana

BIN HEE JUM
Group Director, Finance & Procurement

DR LENA CHAN
Senior Director, International Biodiversity Conservation

KONG YIT SAN
Assistant Chief Executive Officer, Park Management & Lifestyle Cluster

LIM LIANG JIM
Group Director, National Biodiversity Centre

TEVA RAJ
Senior Director, Municipal Landscapes

*DR NIGEL TAYLOR
Group Director, Singapore Botanic Gardens

CHUAH HOCK SEONG
Group Director, Parks 2 and Associate Director, Centre for Urban Greenery and Ecology (CUGE)

TAN CHONG LEE
Assistant Chief Executive Officer, Corporate Development & Services Cluster

DR CHUA TZE HOONG
Group Director, Industry & Biosecurity Management

SIM CHENG HAI
Group Director, Industry/CUGE

MS TAN LAI KHENG
Senior Director, Lifestyle Business

DR CHANG SIOW FOONG
Group Director, Professional & Scientific Services

MS SOPHIANNE MOHD ARAIB
Group Director, Corporate Strategy & Planning and Parks Central

DR YAP HIM HOD
Director-General, Animal & Veterinary Service Cluster

CHIA SENG JIANG
Group Director, Parks 1

MS KARTINI OMAR
Group Director, Design Research & Development and Jurong Lake Gardens

YEO MENG TONG
Senior Director, Design Research & Development and Associate Director, CUGE

The Management Team photos were taken at Fort Canning Park.

Not in picture: Ms Jessica Kwok, Group Director, Community Animal Management

*Dr Nigel Taylor is retiring in December 2019. Dr Tan Puay Yok is appointed Group Director/Singapore Botanic Gardens (Designate) as of 1 October 2019, and Group Director/Singapore Botanic Gardens as of 31 December 2019.
THRIVING GREENERY

With more than 350 parks and four nature reserves, our green spaces are living examples of our rich natural heritage. NParks continues to strengthen our green infrastructure, contributing towards a biophilic City in a Garden for all.
BRIDGING HISTORY TO THE FUTURE

Since its establishment in 1859, the Singapore Botanic Gardens has played a pivotal role in conserving our natural heritage. As part of its 160th anniversary celebrations, it will open an 8-hectare extension along Gallop Road in late 2019 where visitors will find an arboretum holding dipterocarp forest species as well as Singapore's first permanent collection of botanical art on display.

The Ethnobotany Garden opened in June 2018, housing the largest collection of economic, medicinal and ethnobotanical plants in Southeast Asia. It includes a Centre for Ethnobotany that complements the outdoor landscape with an exhibition of artefacts and interactive elements. This development showcases Singapore Botanic Gardens’ unrivalled collections and enhances its role as an educational provider, aligned with its UNESCO World Heritage status.

In the same month, the Gardens held its annual Heritage Festival. Over 160,000 visitors, almost double the visitorship for 2017, enjoyed activities like a carnival, concerts and educational tours held over two weekends.

SHOWCASE FOR SINGAPORE’S HERITAGE AND NATURE

As part of Singapore Bicentennial in 2019, the heritage landscapes of Fort Canning Hill and its surroundings will be restored and weaved into Fort Canning Park. As one of Singapore’s two National Parks, these enhancements highlight the significance of Fort Canning Hill and retrace the history of Singapore across the 14th, 19th and 20th centuries.

Fort Canning Centre will be repurposed as a gallery for visitors to learn about the hill’s history. They can also enjoy new vibrant public spaces as a section of Armenian Street has been turned into a park featuring plants that were historically introduced to Singapore as economic crops, for the spice trade, food and horticulture, as part of the First Botanic Garden. In addition, Jubilee Park will be restored, availing more outdoor family-friendly venues for arts and culture activities.

For a more immersive experience, visitors can expect a re-curation of existing heritage trails of the 14th and 19th centuries as well as the Raffles Garden and Farquhar Garden. Nature lovers can also volunteer in areas such as gardening and archaeology research. History buffs can enjoy more hands-on interactive spaces and participate in newly-developed archaeology-related activities at the refreshed Archaeological Dig showcase when it is opened in June 2019.

The second edition of Festival at the Fort was held from 28 January to 24 February 2019 at Raffles Terrace. As a lead-up to the Bicentennial activities, it was held together with the i Light Singapore art festival and focused on the life and legacy of Sir Stamford Raffles.

1 The Singapore Botanic Gardens celebrates its 160th anniversary in 2019. As Singapore’s first UNESCO World Heritage Site, it has a rich history of research, conservation, education and recreation.
2 Minister for Social & Family Development and Second Minister for National Development Desmond Lee observes the inhabitants of a bee hotel, a man-made structure that provides an area for bees to nest in, during the opening of the Ethnobotany Garden.
3 Visitors to the Centre for Ethnobotany explore its range of physical artefacts and interactive exhibits, gaining insight into the significant role plants have in shaping human culture.
4 Fort Canning Park was specially lit up during the Festival at the Fort event, held together with the i Light Singapore art festival.
5 Armenian Street Park was formerly part of a road and today offers visitors seamless connectivity between Fort Canning Park and the surrounding civic district.
READYING THE NATIONAL GARDENS IN THE HEARTLANDS

NParks is readying the opening of Lakeside Garden in April 2019. Together with Chinese and Japanese Gardens and Garden Promenade, which will open progressively from 2021, this will form the 90-hectare Jurong Lake Gardens that is envisioned to be a people’s garden with sensitively landscaped spaces for the community to come together.

This National Gardens in the Heartlands will have lush greenery, restored wetlands and habitats, and vibrant programming, enhancing the living environment of residents in the west.

To this end, more than 32,000 suggestions and feedback have been gathered during a three-year public engagement exercise that included roving townhalls, exhibitions, focus group discussions and online surveys. This past year, even more groups in the community were engaged, including cyclists, community gardeners and students of Delta Senior School (under the Association for Persons with Special Needs) who will host tours for visitors.

MORE GREEN SPACES TO ENJOY

Marsiling Park, formerly Woodlands Town Garden, opened in April 2018. Visitors now enjoy a range of day and night experiences including new amenities such as a ribbon playground and 3-Generation fitness equipment. They can also learn about the ecosystem of the sensitively enhanced mangrove area along the park’s western edge. During the park’s redevelopment, critically endangered mangrove species like the Berembang (Sonneratia caseolaris) were reintroduced to boost the biodiversity and ecological resilience of the mangrove.

With its scenic sea views and open spaces framed by lush gardens, visitors to Raintree Cove at East Coast Park can enjoy a more tranquil experience compared to the bustle of the adjacent Marine Cove area. Raintree Cove was re-opened in March 2019 while the former Big Splash and Goldkist Chalets locations will open progressively in the next few years.

1 In the lead up to the opening of Jurong Lake Gardens, feedback was actively sought, such as at this engagement session where members of the public could vote for features they would most like to see in the Gardens.

2 Students from APSN Delta Senior School host a special plant guided tour in Jurong Lake Gardens, giving participants a peek into the flora that can be found in Singapore’s new National Gardens in the Heartlands.

3 When completed, the 90-hectare Jurong Lake Gardens will comprise of Lakeside Garden, Chinese and Japanese Gardens and Garden Promenade. Lakeside Garden opens first in end-April 2019, while the rest will be completed from 2021 onwards.

4 Take in the views of the picturesque pond at Marsiling Park from the boardwalks. Nature-lovers will also appreciate the enhanced mangrove habitat found along the park’s western edge.

5 & 6 Rest, lounge about or hang out with friends – Raintree Cove has plenty of spots to enjoy a more tranquil experience at East Coast Park.
POSITIVE EFFECTS OF GRENERY

Centred upon the concept of biophilia (the innate emotional connection humans have with nature), a Nature Playgarden was opened at HortPark in March 2019. Nestled within greenery and built with natural materials, this area encourages spontaneous outdoor play among pre-schoolers and serves as a research test bed to develop guidelines for similar playgardens, conducted in consultation with the Early Childhood Development Agency and National Institute of Early Childhood Development.

Three new inclusive playgrounds were opened at Choa Chu Kang Park, Jurong Lake Gardens and Sun Plaza Park respectively during the year in review. A joint collaboration with the National Council of Social Service, their opening is part of an ongoing initiative to create more inclusive public spaces for children of all abilities to interact together.

A therapeutic garden at Choa Chu Kang Park opened in July 2018, the latest of such gardens to serve the residents of Singapore. Located next to a Community in Bloom garden, allotment garden and a children’s play area, this new garden is a restful spot for the community to enjoy the restorative effects of greenery.

NParks continues to widen its research on the health benefits of such interactions with nature for a holistic approach to enhancing the design of future green spaces and therapeutic horticulture programmes.

GREENING OUR STREETS AND BUILDINGS

Singapore continues to strengthen our green legacy, with multiple locations being rejuvenated with the planting of trees. NParks planted more than 77,000 trees and introduced six new species. Seven new Heritage Trees were endorsed in the past year. The community can visit www.trees.sg to learn more about our urban trees and discover the trees in their own neighbourhood.

Under the centralisation of greenery maintenance, NParks has been replacing self-sown trees with native tree species to enhance the habitat. Over 4,700 native plants were planted to replace storm-vulnerable species on state land.

To optimise urban spaces for greenery, the greening of 12 MRT stations was completed in the year in review, with some 1.6 km of covered linkways planted with creepers and climbers.

Singapore’s green footprint continues to increase, with buildings like the University Cultural Centre, Institution of Engineers Singapore and SPACElogic Headquarters building being retro-fitted with skyrise greenery. To date, 110 hectares of skyrise greenery has been established, on target to achieve 200 hectares by 2030.

1 Floral species and plants with colourful foliage have been introduced across Singapore, making our streetscape more vibrant. From bus stops to sheltered linkways outside MRT stations, such verdant greenery enhances the quality of life for all residents.

2 Nature Playgardens are designed with biophilic elements and natural materials for the young to engage in spontaneous play. Here, children play at the Building Huts in HortPark. These are teepees that they can build upon using twigs, branches or dried fronds found in the play area.

3 Visitors to the therapeutic garden in Choa Chu Kang Park can immerse themselves in nature and benefit from the restorative effects of greenery.

4 Look for vertical greenery in our city such as this outdoor green wall on the façade of the SPACElogic headquarters building in Changi South. This project was a recipient of the Skyrise Greenery Incentive Scheme in 2018.

5 Singapore’s green footprint continues to increase, with buildings like the University Cultural Centre, Institution of Engineers Singapore and SPACElogic Headquarters building being retro-fitted with skyrise greenery. To date, 110 hectares of skyrise greenery has been established, on target to achieve 200 hectares by 2030.
CONNECTING PARKS, CONNECTING HEARTS

NParks remains on track to achieve 180 km of Nature Ways along our streets by 2030. In 2018, we completed 20.9 km of Nature Ways along our streets. To date, we have achieved 100 km of Nature Ways across Singapore. Besides giving commuters more touchpoints to enjoy greenery, Nature Ways also connect areas of high biodiversity to urban communities and facilitate fauna movement between green spaces.

To further connect residents to nature, 16.9 km of park connectors – including Whampoa Opposite Bank, Woodsville, Outdoor Play Corridor, Geylang Opposite Bank, Kallang Riverine Park Tracks, Potong Pasir and Coney Island – have been completed. Upgrading works on 7.2 km of existing park connectors were also completed, including Ulu Pandan, Jurong, Sembawang, Canberra.

Sembawang and Khatib Bongsu Park Connectors. By the end of the year in review, some 330 km of park connectors were completed.

To provide residents with more opportunities to connect with nature, NParks opened the Coast-to-Coast Trail and Rower’s Bay on 30 March 2019. Stretching from Jurong Lake Gardens in the west to Coney Island Park in the northeast, this 36 km trail is complemented by a C2C Mobile App (www.nparks.gov.sg/gardens-parks-and-nature/parks-and-nature-reserves/coast-to-coast%C2C_Mobile_app) that deploys interactive elements to give users a unique curated walking experience.

The new Rower’s Bay, located on the banks of Lower Seletar Reservoir, features a boardwalk and a wetland habitat. This node is part of the first phase of completed works along the Round Island Route, and is also part of a future Park Connector Network loop, enhancing the seamless interlacing of nature into our living environs.

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1. Take a ride along the new Coney Island Park Connector that offers beautiful views of its lush greenery and of the adjacent Sengkang Reservoir.
2. Enjoy stunning vistas of Lower Seletar Reservoir while exploring the boardwalk at the new Rower’s Bay, a node along the Round Island Route.
A BIOPHILIC HOME

NParks strengthened our efforts to conserve, protect, and enrich our local biodiversity. With greater stewardship on the ground, we continue working with the community to nurture nature and conserve our natural heritage.
STRENGTHENING OUR NATIVE FORESTS

The resilience of our native rainforests is sustained by ecological processes and enhanced through its rich biodiversity and ecological connectivity. This will be realised through the Forest Restoration Action Plan to be carried out over the next decade. It will assist secondary forests in nature parks buffering the Bukit Timah and Central Catchment Nature Reserves as well as disturbed patches within the reserves to regenerate and approximate a mature forest in time.

This plan, announced in January 2019, is part of NParks’ habitat enhancement and restoration programme under the Nature Conservation Masterplan that charts Singapore’s biodiversity conservation efforts. The community will help lead the Forest Restoration Action Plan; more than 250,000 trees and shrubs will be planted through efforts spearheaded by schools, organisations and the Friends of the Parks community.

Restoration works for the 67-hectare Rifle Range Nature Park began in early 2019. Its secondary rainforests will be sensitively enhanced with native plants to improve the habitat for biodiversity to flourish. Aerial rope bridges will also be installed across Rifle Range Road for arboreal animals to move about safely, increasing their chances for long-term survival.

As part of the Forest Restoration Action Plan, NParks and the Urban Redevelopment Authority are working with the Friends of Rail Corridor community to rewild the Rail Corridor (Central) and enhance a belt of native forest along the 4 km stretch. This belt will be an important passage, habitat and source of food for native fauna, particularly those from the nearby Bukit Timah Nature Reserve. Members of the Friends of TreesSG, Bukit Timah Forest and Chestnut Nature Park communities also supported this initiative by carrying out stream enhancement along the Rail Corridor.

NParks celebrated World Wetlands Day in early 2019, highlighting the vital role of wetlands in mitigating the impact of climate change. More than 700 visitors participated in activities in Sungei Buloh Wetland Reserve, Pasir Ris Park, Pulau Ubin and the Singapore Botanic Gardens from 26 January till 3 February.

In October 2018, Sungei Buloh Wetland Reserve turned 25, a milestone made possible by the strong support of a nationwide community of corporations, schools, partners and volunteers, like the Friends of Sungei Buloh Wetland Reserve community. Today, it is recognised as a major stopover for migratory shorebirds on the East Asian-Australasian Flyway and an important player in the international biodiversity scene.

Over the years, the Reserve’s conservation approach has been guided by scientific knowledge and technology – it was among the first in Southeast Asia to employ latest tracking technology to follow the cross-border movements of migratory shorebirds. This included, in 2017, the latest in satellite tracking project with enhanced resolution compared to earlier geolocator and radio tracking.

The Reserve’s capacity in conservation was enhanced this past year with the designation of Mandai Mangrove and Mudflat as our newest Nature Park. Situated about 3 km to the east of the Reserve, this 72.8-hectare site is a habitat for threatened species of mangrove plants, seagrasses, and horseshoe crabs, providing migratory shorebirds with a rich feeding ground. Collectively, the new Nature Park, Kranji Marshes and the Reserve safeguard a variety of complementary wetland habitats, including mangroves, mudflats and freshwater marshes, strengthening the conservation of wetland biodiversity in northwest Singapore.
TREASURING OUR REEFS
To celebrate the International Year of the Reef in 2018, NParks worked with corporate partners and Friends of Marine Park community to raise awareness of the impact of human activity on marine ecosystems. There were roadshows, marine trash monitoring, intertidal watches and BioBlitzes that helped instil a greater sense of environmental stewardship in participants and enthused others to join in our conservation efforts.

NEW SPECIES OF FAUNA RECORDED ON UBIN
Five new species of fauna were recorded for Singapore at Pulau Ubin: the Little Stint (Calidris minuta), Long-winged Tomb Bat (Taphozous longimanus), Big-eared Pipistrelle (Hypsugo macrotis), Arrow Emperor (Anax panybeus) dragonfly, and Raccoon Pseudo-orb Weaver (Fecenia ochracea) spider. This was announced during the annual Ubin Day in June 2018.

Of special significance is the Little Stint’s sighting which is a new record of this migratory bird species in Singapore. An observation gleaned from the past year’s bird monitoring data suggested that Pulau Ubin complements Sungei Buloh Wetland Reserve as another possible stopover for migratory birds along the East Asian-Australasian Flyway.

Such findings enrich Pulau Ubin’s diverse biodiversity and underscore the importance of conserving its rich natural heritage. To this end, a multi-disciplinary and experiential learning journey for students, developed with members of the Friends of Ubin Network community and educators, is being piloted. NParks also completed a mangrove arboretum and nursery, which serve as a living reference collection for researchers and students, and will provide planting materials for mangrove restoration work on the island.

Pulau Ubin’s cultural heritage was also boosted, with the Friends of Ubin Network community working with National University of Singapore students and Singapore Heritage Society to rebuild Ah Ma’s Drink Stall. A space with wood-working equipment was created at the Ubin Living Lab, facilitating onsite restoration work. Moreover, the project functions as a prototype for the future reconstruction of kampong houses.

SCALING UP CONSERVATION EFFORTS
The world’s most widely trafficked mammal, the Sunda Pangolin (Manis javanica), has found refuge in urban Singapore. NParks aims for greater collaborations with partners to develop long-term conservation and management strategies through the National Conservation Strategy and Action Plan for Sunda Pangolins. Measures such as setting aside buffer parks and habitat restoration to enhance the critically endangered animal’s ecosystem will be intensified. This was announced in September 2018 and will be implemented by the Singapore Pangolin Working Group.

Two more batches of the Critically Endangered native Singapore Freshwater Crab (Johora singaporensis) were born in captivity, bringing the total number of such captive-born crabs to 300 in 2018. NParks’ freshwater facility for conservation and research purposes has also been expanded, increasing the capacity for captive breeding of other native species like the Swamp Forest Crab (Parathelphusa reticulata) and Sunda Leaf Fish (Nandus nebulosus).

Singapore’s first turtle hatchery at the Sisters’ Islands Marine Park was opened in September 2018, increasing our native turtles’ chances of survival. The site provides suitable habitats and feeding grounds for the Hawksbill Sea Turtle (Eretmochelys imbricata) and Green Turtle (Chelonia mydas), while smart technology such as Bluetooth sensors monitor water levels around nests in the hatchery to prevent saltwater from affecting incubating eggs. The hatchery also enables opportunities for research work as well as outreach and educational programmes.

1-5 Five new fauna species were recorded at Pulau Ubin – the Little Stint, Long-winged Tomb Bat, Big-eared Pipistrelle, Arrow Emperor dragonfly and Raccoon Pseudo-orb Weaver spider. These findings enrich the island’s biodiversity as well as the wealth of our natural heritage.
6 The announcement of the National Conservation Strategy and Action Plan for Sunda Pangolins sets the foundation for greater and longer-term conservation and management strategies to help the world’s most widely trafficked mammal.
7 By expanding our freshwater facility for conservation and research, the capacity for captive breeding for native species like the Sunda Leaf Fish has also increased.
8 The opening of a turtle hatchery at the Sisters’ Islands Marine Park will help boost the survival rate of the Critically Endangered Green Turtle.
GLOBAL CONNECTIONS

Singapore continues to be an active partner in global conservation efforts and knowledge exchange. In April 2018, Sungei Buloh Wetland Reserve hosted the inaugural meeting of the ASEAN Network on Wetlands and Migratory Waterbirds’ Conservation, for greater regional cooperation to protect migratory birds. The Network has since been renamed the ASEAN Flyway Network.

In a related meeting, NParks participated in the 6th Global Biodiversity Summit of Local and Subnational Governments from 23 to 24 November 2018 in Egypt. This was held parallel to the 14th Meeting of the Conference of Parties to the Convention on Biodiversity (CBD COP14). The event called on CBD Parties to recognise the catalytic role of local and subnational governments in contributing solutions to achieve the CBD’s vision of Living in Harmony with Nature by 2050.

NParks also hosted delegates from Brunei, Indonesia and the Philippines as part of the Asian Forest Cooperation Organisation (AfCo) Regional Project and Special Project Coordination Committee Meeting from 26 to 28 February 2019.

CITIZEN SCIENCE IN ACTION

In May 2018, the international community commemorated 25 years of action for biodiversity, as part of the International Day for Biological Diversity. Locally, NParks adopted the theme “25 Years of Community Stewardship in Nature Conservation”, celebrating active citizenry in nature conservation and partnerships, with activities that culminated in the annual Festival of Biodiversity held in June. With 44 partners, the event reached out to some 31,000 people, raising awareness of our natural heritage among the public.

Leading up to the festival, more than 26,000 people took part in Biodiversity Week activities across parks, nature areas and schools held in May and June. Under the Community in Nature (CIN) Citizen Science school programme, a total of 390 schools and 38,000 students were empowered to mobilise for biodiversity, of which 780 students were trained to be CIN Student Ambassadors who become advocates of our conservation efforts by engaging with the public in creative ways.

In the year in review, more than 4,500 citizen scientists participated in biodiversity surveys like Butterfly, Dragonfly, Heron and Garden Bird Watches as well as BioBlitz. For the first time in the Nationwide BioBlitz, participants helped spot and log useful data about bees and the species of flowers they were found interacting with.

1 Camera trap footage catch the elusive Lesser Mousedeer in our forests. Using such technologies enable researchers to study the movement of fauna that are usually frightened off by human presence.
2 By using activity sheets, puzzles and interactive displays, the annual Festival of Biodiversity is a good platform to inform and educate the public, particularly the young, about Singapore’s rich biological diversity.
3 With a wing span of about 2 m, the White-bellied Sea Eagle (Haliaeetus leucogaster) is reputed to be Singapore’s largest bird of prey. Each year, biodiversity surveys led by citizen scientists help identify and count such birds, contributing towards important conservation programmes.
4 Students and teachers from West Grove Primary School participating in a BioBlitz survey. This past year, more than 4,500 citizen scientists were engaged in activities, boosting our biodiversity conservation efforts.
A GROWING INTEREST

Different communities turn our parks and gardens into vibrant hubs of life and activities, coming together to appreciate greenery and take ownership of the environment. Together, we endeavour to foster and grow a love for nature among all.
SHOWCASE OF HORTICULTURAL EXCELLENCE

The Singapore Garden Festival (SGF) returned in July 2018. A record of more than 600,000 local and international visitors entered this wonderland of 73 gardens and floral displays by 40 acclaimed floral and garden designers, community gardeners and floral enthusiasts. Held at Gardens by the Bay, the festival took visitors on a journey, from displays like The Mountains, Gothic Gate and Lost Forest to a Secret Garden of Edibles – a collection of flowering edible plants from temperate and tropical regions.

Having achieved recognition at home and overseas for six editions, this past year, SGF grew into three complementary flower and horticultural shows. More than 150,000 visitors were treated to a kaleidoscopic collection of over 100 varieties of award-winning and heritage orchids at the inaugural SGF Orchid Show held in the Singapore Botanic Gardens in April 2018. Next, the public can look forward to the inaugural SGF Horticulture Show taking place in late April 2019 at Jurong Lake Gardens.

PARKS ALIVE

Our green spaces were filled with the sound of music and excitement in 2018. More than 4,200 events were held, attracting over 1 million visitors of diverse interests. For example, Gardeners’ Day Out at HortPark is a much anticipated monthly event for local gardeners, presenting a variety of products and services to meet the needs of a blossoming gardening community.

Vocals and instruments took centre stage among verdant greenery at the NParks Concert Series in the Park: Rockestra®. Its 9th and 10th instalments, held at East Coast Park and Empress Green respectively, were presented in 2018. Complementing this was NParks’ talent incubation programme, Live Out Loud, which returned in May 2018 as a platform for undiscovered performers to showcase their abilities.

Adding to the growing buzz in the city were Parks Festival held in the Civic District in October and Artists’ Night Out that enlivened Dhoby Ghaut Green in August. And shopaholics can browse for artisan items at the sustainable lifestyle market or attend upcycling workshops and yoga sessions, part of the monthly Weekends in the Park activity held in East Coast Park.

NParks continues to tap on social media to promote such activities, stepping up our online efforts in FY2018 and reaching over 111,000, 28,000 and 34,400 fans and followers on NParks Facebook, Instagram and Twitter accounts respectively.
STARTING YOUNG

It is never too early to start cultivating the love of nature. As part of ongoing education and outreach efforts, NParks held interactive talks, guided walks and hands-on activities throughout the year to introduce students in some 1,700 preschools to our natural heritage.

This included those from PCF Sparkletots @ Bishan who visited the various habitats in Bishan-Ang Mo Kio Park to see our biodiversity firsthand. This past year, more than 30 My First Skool centres signed up to participate in a Community in Bloom (CIB) programme where gardens were started within their centres or they partnered with neighbouring community gardens to enhance the school curriculum. This was another means to introduce gardening as an activity to pre-schoolers. By end March 2019, CIB has facilitated more than 270 pre-school centres under this programme.

At Sengkang Riverside Park, the Skool4Kidz Campus was opened in July 2018. Besides indoor classrooms, its pre-schoolers can learn in a community garden and play amidst a lush park landscape. To introduce children to the importance of conserving our biodiversity, an activity book paired with a video clip called Playtime with Shelly the Hawksbill Turtle, was created and reached out to students in more than 240 pre-schools.

To seed conservation messages into educational resources, NParks builds on the strong relationship we have with partners like Ministry of Education, Early Childhood Development Agency (ECDA) and Academy of Singapore Teachers. NParks continues to offer more Allotment Gardening plots in our parks. Registration for 300 of such plots at Jurong Lake Gardens and 50 plots at Ang Mo Kio Town Garden West were made available online in November 2018, giving gardening enthusiasts greater convenience during application. These slots were quickly taken up, reflecting the flourishing interest in allotment gardening. There are now over 1,000 allotment gardening plots in 11 parks across the island.

A THRIVING GARDENING COMMUNITY

The gardening communities across Singapore continue to branch out with the set up of more than 50 new CIB gardens, by end FY2018. While ornamental and biodiversity-enhancing gardens remain popular, interest in edible-growing community gardens continues to rise steadily. There are now more than 1,400 community gardens, on track to achieve the target of 2,000 community gardens by 2030.

There were two new community gardens of interest. Kampung Admiralty features a garden landscape with over 30 edible plant species and the longest espalier fruit tree display, featuring 14 species, in an HDB estate. Over at Oasis Terraces, a mixed development in Punggol, CIB gardeners come together to forge new friendships with their neighbours through gardening.

The CIB Awards 2018 recognised horticulture standards and the outreach of community gardens in public and private housing estates, as well as in educational institutions and organisations. A total of 541 community gardens participated, the highest in its history. For the first time, a People’s Choice Award was introduced for the public to vote for their favourites. The multi-faceted contributions of community gardens in the areas of inclusivity and outreach to the underprivileged were also recognised.

1 Most children like being outdoors and are naturally interested in the world around them. This past year, NParks worked with some 1,700 preschools to introduce their students to our natural heritage.

2 What do you see? Students from My First Skool @ Toa Payoh also touch and smell plant specimens, stimulating their senses to spark interest in the flora and fauna around them.

3 Students from the Chen Su Land Methodist Children’s Home engage in hands-on activities after viewing the Playtime with Shelly the Hawksbill Turtle video, enhancing their learning about Singapore’s rich marine biodiversity.

4 & 5 Community gardeners contribute much towards Singapore’s greening movement. Besides sowing edible crops, community gardens also attract wildlife to our urban greenery and provide a platform for people to bond over a common interest in gardening.
A FRIEND OF THE PARKS IS A FRIEND TO NATURE

The Friends of the Parks community remains an indispensable partner working hand in glove with NParks to promote safe and responsible behaviours to improve park users’ experience while enabling people to take greater ownership of our parks. The contributions of the communities were felt in multiple activities that cover conservation, outreach and education, over the past 12 months.

The enthusiasm of newer communities was evident, with the Friends of Rail Corridor community holding its inaugural meeting on 9 April 2018 where members discussed issues of stewardship, accessibility and heritage to refine a vision guiding the future use of the Rail Corridor. They followed this by conducting its first BioBlitz in May 2018 when some 30 volunteers held three surveys to document the wildlife along the stretch between Hindhede Drive and Fuyong Park.

Nearby, more than 70 volunteers of the Friends of Chestnut Nature Park community planted 100 trees in May 2018 to enhance the floral diversity and provide food resources to fauna from the nearby Central Catchment Nature Reserve.

And in July 2018, members from the Friends of TreesSg community gathered at the Marina Tree Bank for a hands-on experience pruning, mulching, fertilising, and watering tree saplings there.

Other communities built upon the good work done over the years. For example, about 40 members of the Friends of Park Connector Network (PCN) and other volunteers gathered at Punggol Point Park pond for a habitat enhancement project in May 2018, while another group of its volunteers carried out track widening and planting works along Yishun Park Connector, part of a greening and track improvement effort in July.

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APPRECIATING OUR VOLUNTEERS

Volunteers are an essential driving force in our shared passion of conserving our natural heritage. To celebrate their invaluable contributions, NParks rolled out a benefit package in December 2018. It includes discounts at selected F&B outlets in the parks, exclusive plant sales and opportunities to join customised tours, workshops and training programmes.

To date, NParks has some 45,000 volunteers integral to the running of a wide range of activities including conducting guided walks, conservation programmes and marine biodiversity surveys. NParks’ network of volunteers includes CIB gardeners, citizen scientists from CIN and members of the Friends of the Parks community.

Some highlights in the calendar this past year: Adult and children participating in the first edible gardening session in Jurong Lake Gardens in October 2018, Friends of Marine Park community volunteers working with staff to spread the message of marine conservation during the Asia Dive Expo in April 2018, and guides and members of the Friends of Bishan-Ang Mo Kio Park community getting together in March 2019 to celebrate the work done.

PROMOTING A CULTURE OF SAFE RIDING

As the concept of a car-lite future gains traction, new bicycle parking spaces have opened up across the island. NParks works closely with partners like the Land Transport Authority’s Active Mobility enforcement officers, to tackle the issue of reckless riding and to promote safe and responsible use of the PCN and cycle paths among the community.

The frequency of such activities increased after the Active Mobility Act kicked in on 1 May 2018. They were focused along Yishun, Lorong Halus and West Coast, among others, to strengthen the culture of safe riding in Singapore.

1 Participants at a Friends of Chestnut Nature Park community-organised habitat enhancement activity volunteered their time to plant trees, so as to enhance the park’s floral diversity.

2-4 From conducting guided tours and greening up our gardens to being citizen scientists as part of CIN programmes, our 45,000-strong volunteers contribute greatly to a wide range of activities.
The horticulture and landscape industries have vital roles in realising a biophilic City in a Garden. NParks remains committed to strengthening the ground, investing in and spearheading initiatives that deepen core competencies for a thriving ecosystem.
EXPANDED SCOPE FOR NPARKS
NParks is to become the lead agency for animal and wildlife management, as well as animal and plant health, effective 1 April 2019. This follows an announcement in July 2018 that Singapore Food Agency will replace the Agri-Food & Veterinary Authority of Singapore (AVA) to oversee Singapore’s food safety and security while all non-food plant and animal-related functions of AVA will be transferred to NParks.

The NParks (Amendment) Bill was passed by Parliament in February 2019, paving the way for the set up of Animal & Veterinary Service, a new cluster of NParks, that will take on the role as first responder for animal-related feedback as well as maintaining standards in animal welfare and health. It will also be the main touch-point for animal health and animal-related issues for pet owners and businesses, as well as animal welfare groups.

BOOSTING THE INDUSTRY
In the year in review, NParks engaged owners and staff from over 80% of local orchid nurseries to share the progressive land parcel tendering details. The first orchid land tender was also launched, following the announcement in January 2018 that NParks would have oversight of the whole orchid industry to consolidate efforts and develop policies to grow the sector.

To boost continual skills upgrading and capability-building, CUGE offered more than 3,400 Workforce Skills Qualifications (WSQ) training places in the reporting year. This included those recommended under the Progressive Wage Model (PWM) and over 1,400 non-WSQ training places. Currently, more than 90% of Singapore’s landscape workforce are covered under the Landscape PWM.

CUGE has also completed the development of the Skills Framework (SFw) for Landscape and SkillsFuture Singapore and Workforce Singapore. SFw is an integral component of the Industry Transformation Maps and provides up-to-date information on jobs, skills and education as well as training programmes, preparing workers better for the industry.

DIGITALISATION BOOSTS OPERATIONAL EFFICIENCY
To manage the 2 million urban trees along our roads and in our parks and gardens, NParks has adopted smart technology to improve our operational efficiency and processes.

Officers have been using a mobile map application to access information needed for daily tree inspections and maintenance. This app enhances NParks’ capabilities in Geographic Information System (GIS) data collection on trees and park facilities, and allows important inspection records to be updated and synchronised to the main operation system, helping officers complete work quickly and with greater accuracy.

NParks has also been testing an electronic tilt sensor, placed on mature trees to detect lean. The sensor alerts officers to such movements for them to assess structural stability under strong wind conditions and to take mitigation measures. Such technology is especially pertinent given the adverse impact of climate change on Singapore.

1 The Animal & Veterinary Service, a new cluster under NParks, is the first responder for animal-related feedback and maintains the standards in animal welfare and health.
2 While officers continue to physically inspect and maintain our urban trees, they have been increasingly using technology to boost efficiency. Here, a sonic tomograph measures the velocity of sound waves in wood, providing users a picture of the internal condition of the trunk without having to drill into it.
3 Urban trees generally grow in soil that is likely to be less nutrient-rich while construction activities and vehicles can damage their roots, trunks and branches. To ensure the continual health and safety of an urban forest, its trees must be professionally inspected and maintained.

Information System (GIS) data collection on trees and park facilities, and allows important inspection records to be updated and synchronised to the main operation system, helping officers complete work quickly and with greater accuracy.

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UPLIFTING EDUCATIONAL INSTITUTES

The Landscape Design Challenge was held at the Singapore Garden Festival for the second time. Twelve teams from the polytechnics, Institutes of Technical Education and design schools were each challenged to transform a 9 m² plot of land into an outdoor landscape display within 4 hours. This landscaping and design-based competition for youths from Institutes of Higher Learning (IHLs) is a platform to showcase their creativity while introducing them to the range of opportunities in the industry.

In early 2019, CUGE piloted a structured programme aimed at providing certification and employment opportunities for Special Education students. This includes attachment opportunities at Pasir Panjang Nursery and National Orchid Garden. CUGE is also collaborating with ITE College East on a pilot student-run initiative to enable students in urban greenery and landscape management courses to hone their skills in a real workplace environment. Students get to apply new technologies and innovative solutions, such as a sonic tomograph, resistograph microdrill, as well as drones for tree inspection. NParks continues to adopt such smart technology to improve our operational efficiency and processes.

In September, CUGE invited educators from IHLs to HortPark for a workshop and to share on latest horticulture and arboriculture topics as varied as root biology and soil, biomechanics for tree stability and biophilic guidelines to enhance urban areas.

As part of a collaboration with the Hong Kong Technological and Higher Education Institute (THEi), CUGE hosted a study visit group from 4 to 8 June 2018 where the guests, comprising students and teachers, gleaned insights on Singapore’s greenery and management processes while visiting our parks and gardens.

SHARING AND LEARNING

NParks continues to build strong ties with the industry. A series of seminars, on research, arboriculture and habitat enhancement, was held in 2018. Participants included academics, government officials, researchers and industry practitioners. They found the events opportune platforms to share findings and learn about topics as varied as root biology and soil, biomechanics for tree stability and biophilic guidelines to enhance urban areas.

As part of a collaboration with the ITE, CUGE hosted a study visit group from (THEi), CUGE hosted a study visit group from 4 to 8 June 2018 where the guests, comprising students and teachers, gleaned insights on Singapore’s greenery and management processes while visiting our parks and gardens.

GROWING EXPERTISE IN THERAPEUTIC HORTICULTURE

NParks continues to grow our knowledge in therapeutic horticulture. In April, CUGE launched the Client Management in Therapeutic Horticulture workshop for stroke rehabilitation clients. Meanwhile, HortPark organised the inaugural nature therapy session with a group of seniors from Apex Harmony Lodge in collaboration with a certified nature and forest therapy guide. These activities encouraged participants to use their senses to become more immersed in nature.

Interest in the restorative effects of nature remains high, evident in a healthy 30% increase in attendance for the second Therapeutic Horticulture Seminar held at the Singapore Botanic Gardens on 7 September 2018. Nearly 100 professionals and practitioners from the landscape, education and healthcare sectors attended the event.

As more Therapeutic Gardens are developed, in-house capability in therapeutic horticulture also has to be strengthened. A second sharing workshop on therapeutic horticulture facilitation was held at HortPark on 11 July, giving participants the chance to learn new techniques.

1 Participants of the study group from THEi visit green spaces within the civic district to learn more about Singapore’s greening efforts.
2 A student participant of the Landscape Design Challenge, held at the Singapore Garden Festival 2018, reads her display before judging. Competitions like this give youths the chance to demonstrate their creativity and give them insight into the industry.
3 Students from ITE College East gain valuable hands-on experience using technologies such as the resistograph microdrill, part of a pilot initiative between CUGE and educational institutions.
4 In-house trainers conduct a sharing workshop on Therapeutic Horticulture Facilitation at HortPark for colleagues. They were taught low-cost and environmentally sustainable activities that also provide opportunities for participants to practice their motor skills.
5 Natural elements such as leaves and grasses stimulate the senses of participants in a Therapeutic Horticulture workshop, helping to evoke their memories.
WINNING RECOGNITION

Innovative minds and service excellence in NParks were recognised by the Public Sector Transformation Awards 2018. The Therapeutic Garden Movement team was recognised with the Excel Innovation Project while Peter Lim, Assistant, Security Management at the Singapore Botanic Gardens received the Star Service Individual award and Ms Taryn Yap, Senior Legal Counsel, Corporate Services, received the Star Service Manager award.

TOWARDS A GOOD CAUSE

Outside the office, staff volunteered their time to give back to the community. During Kindness Week held in December, different groups helped out at a variety of welfare organisations. Activities included preparing ingredients for a soup kitchen, packing canned food for needy families, engaging with the elderly through therapeutic horticulture and tending to animals at the Society for the Prevention of Cruelty to Animals.

Throughout the rest of the year, staff readily answered the call of voluntourism, participating in the quarterly blood donation drives, tutoring and mentoring children and gardening at NParks’ adopted charity, the Handicaps Welfare Association.

BUILDING UP IN-HOUSE TALENT

In its ongoing commitment to nurture and retain talent, NParks awarded 10 scholarships comprising undergraduate, postgraduate and overseas merit awards to deserving staff and external candidates. Two staff members were also offered professional exchange attachments to Kings Park and Parks Victoria in Australia.

Hort Colloquiums are an educational platform to share industry knowledge and domain expertise. This past year, the colloquiums, conducted every three months, saw staff sharing on a diverse range of topics such as botanical nomenclature, landscape industry trends, digital technologies for 3D mapping of trees, principles of plant decoration and how to support and co-exist with caterpillars in our landscapes, amongst others.

Knowledge begets more knowledge through sharing and Hort Champs best exemplify this. For example, thanks to workshops conducted by Hort Champs, staff learnt how to build bee hotels in August, to support solitary bees such as the leafcutter and resin bees. These structures can be easily constructed using recycled wood and bamboo.

1 Peter Lim, Security Management Assistant at the Singapore Botanic Gardens, helps a lost visitor with directions. With his ready smile and an in-depth knowledge of the Gardens, Peter is the recipient of the Star Service Individual award.

2 Ms Taryn Yap, Senior Legal Counsel, Corporate Services, in deep discussion with a colleague. Taryn provides clear and well-reasoned legal analysis and advice, and received the Star Service Manager award.

3 More hands make light work! Staff volunteered their time to pack cans and dried food stuff for needy households, just one of the many ways they give back to the community.

4 Regularly-held blood donation drives demonstrate the big hearts of our staff who readily donate their blood to build up Singapore’s blood bank.

5 Staff came together to learn how to build bee hotels to house solitary bees such as the leafcutter and resin bees. These structures can be easily constructed using recycled wood and bamboo.

6 Only leafcutter and resin bees nest in bee hotels. Here, a Broad-headed Leafcutter Bee (Megachile laticeps) is carrying a piece of leaf.

7 Parks Senior Manager Ms Pauline Tan shares a lighter moment with a co-worker from Albert Park in Melbourne, Australia, as they transport stuffed animals for use in an educational programme for young rangers. She was attached to Parks Victoria for six months.

8 Ms Chin Li Li, a Senior Officer specialising in Molecular Biology at the Singapore Botanic Gardens, enjoyed the hands-on training she received during her one-month attachment at the National Taiwan University in Taipei.
The Garden City Fund (GCF) is a registered charity and an Institution of Public Character (IPC), with its registered address at National Parks Board, Singapore Botanic Gardens, 1 Cluny Road, Singapore 259569.

It seeks to enhance the enjoyment of our City in a Garden by working with corporations and individuals to support the development of amenities and special features in Singapore’s green spaces; community activities and programmes that promote awareness, research and education in nature and conservation; and citizen involvement to encourage greater ownership of our City in a Garden.

The Board of NParks serves as the trustee of the GCF and has appointed the GCF Management Committee to plan, develop, promote and manage the GCF in accordance with its Trust Deed.

The GCF Management Committee comprises mainly non-executive members for the GCF Secretary Dr Leong Chee Chiew, who is also the Deputy Chief Executive Officer, Professional Development & Services Cluster at NParks; Executive Director, National Parks, Gardens & Nature Reserves Cluster; and the Commissioner of Parks & Recreation.

Between 1 April 2018 and 31 March 2019, the total amount of cash donation income through the GCF was about S$6.5 million.

The members of the 8th GCF Management Committee were appointed from 1 November 2016 to 30 October 2018 and the 9th GCF Management Committee were appointed from 1 November 2018 to 31 October 2020.

The 8th and 9th GCF Management Committee for the Year in Review

<table>
<thead>
<tr>
<th>Appointment</th>
<th>Name</th>
<th>Attendance at Management Committee meeting (FY2018)</th>
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<tr>
<td>Chairman</td>
<td>Professor Leo Tan Wee Hin</td>
<td>3/3 1/1</td>
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<tr>
<td>Treasurer</td>
<td>Mr Goh Kong Aik</td>
<td>2/3 1/1</td>
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<tr>
<td>Secretary</td>
<td>Dr Leong Chee Chiew</td>
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<tr>
<td>Members</td>
<td>Mr Tan Khin Nguan</td>
<td>3/3 0/1</td>
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<tr>
<td>Mrs E-Len Fu*</td>
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<tr>
<td>Mrs Kirtida Mekani</td>
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<td>3/3 1/1</td>
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<tr>
<td>Dr Malone-Lee Lai Choo*</td>
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<tr>
<td>Mr Daren Shiau</td>
<td></td>
<td>3/3 0/1</td>
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<tr>
<td>Mr Vincent Lian Jowin Sing*</td>
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<tr>
<td>Mr Cheng Hsing Yee*</td>
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</tbody>
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*Members retired after serving on the 8th GCF Management Committee.

**Mr Cheng was newly appointed to the 9th GCF Management Committee since November 2018.

As part of the GCF Accountability and Governance Framework, any member of the Board, Committee or Sub-committee has to give prior written disclosure of any actual or potential conflict of interest for any transaction or project in connection with the GCF, and will not be able to participate or cast a vote in the transaction/project.

CONNECTING PEOPLE TO NATURE

NParks’ biodiversity and conservation efforts were augmented by the robust support from individuals and corporate sponsors, through the GCF.

As a natural extension of the Singapore Botanic Gardens’ nature area, an 8-hectare extension to the Gardens along Gallop Road was announced to open by late 2019. Visitors would be able to learn about forest ecology and the importance of conservation in one location, promoting the Gardens’ mission of connecting people with plants.

Key developments in the Gallop Extension included the OCBC Arboretum which will house 200 to 300 species of dipterocarp forest species, the HPL Canopy Link which allows up close viewing of the Gardens’ native forest tree species, the Mingxin Foundation Rambler’s Ridge that offers vantage points to view critically endangered flora species, and the COMO Adventure Grove, a biophilic area that encourages children to learn about and appreciate native flora and fauna through play.

In appreciation of the key role the community has played in the Gardens’ conservation efforts and programmes and their contribution of at least S$1 million, NParks dedicated Heritage Trees to COMO Foundation, HPL, Keppel Corporation, Mingxin Foundation, OCBC Bank, and Mr Tan Jiew Hoe.

CONSERVATION AND RESEARCH

With the support of HSBC, Singapore’s first turtle hatchery at the Sisters’ Islands Marine Park – a protected area zoned for conservation and research – was launched. The hatchery provides research opportunities for scientists to study two critically endangered and native species – the Hawksbill Turtle and Green Turtle. Acknowledging the importance of engaging the community in marine turtle conservation outreach, volunteer training, and education programmes are also organised at the hatchery.

In partnership with Temasek Foundation Ecosperity, the GCF also secured support for dragonfly research and species recovery. The research seeks to study the potential of the dragonfly as natural pest control in our urban environment, as well as to restore a dragonfly habitat in Jurong Lake Gardens.

Under the GCF, NParks collaborated with JTC for the “Grow-a-Reef Garden” initiative. In Singapore’s largest reef project, the purpose-built reef structures are designed to contribute some 1,000 m² of additional reef substrate to the Marine Park by 2030. A total of eight structures were installed by the end of 2018 to form the JTC-NParks Reef Garden.

This initiative complements NParks’ ongoing reef enhancement efforts, expanding the habitat restoration and enhancement programme in both scope and scale. The reef structures will provide opportunities for various research initiatives to be implemented and to serve as test beds for new technologies to study coral reef resilience.

Supported by 11 donor companies from JTC’s estates and developments with contributions ranging from S$55,000 to S$100,000 per company, these included Chang Chun Dairen, Denka, ExxonMobil, GSK, Keppel Group, Mitsu, Oiltanking Asia, Petrochemical Corporation of Singapore, Siltronik, Sumitomo Chemicals and Vopak Terminals.
EDUCATION AND OUTREACH
With a record 600,000 visitors over 14 days, the 2018 Singapore Garden Festival concluded on a successful note not least because of the robust support of sponsors – both corporations including Takashimaya Singapore and Singapore Press Holdings (official media partner), and individuals – who collectively donated $51.9 million worth of cash and in-kind donations through the GCF as part of the capacity-building thrust in the landscape industry and the ongoing effort to connect people with nature.

Companies like Ascendas-Singbridge also chose to sponsor specific curations like the Learning Garden display whilst Woh Hup sponsored the Balcony Garden display.

GREENING OUR CITY
The GCF’s Plant-A-Tree (PAT) programme continues to garner strong support from individuals and corporations with over 34,000 trees pledged by more than 600 corporations and some 2,800 individuals since the programme’s inception in 2007. The programme provides a platform for organisations and individuals to actively participate in the greening of our city by planting trees.

In 2018, the programme saw regular participants like Shimano, Shimizu, Singtel, IKEA, Maybank, and Singapore Pools coming forth in faithful support even as we were heartened to welcome new participants like the Goldbell Group, Yokogawa and Samwoh Corporation Pte Ltd.

In collaboration with JTC, GCF also engaged business and industry partners including 16 companies and eight individuals to plant 115 trees at one-north Park.

To commemorate its 93 years of history and heritage, Shuqin Secondary School planted 93 trees in August at Jurong Central Park. In like manner, Singapore Pools planted 50 trees in May at East Coast Park to celebrate the company’s 50th anniversary whilst UPS pledged to plant 200 trees as part of its global initiative to plant 12.5 million trees over a period of six years.

FORGING AHEAD
Looking forward, the GCF pledges to continually engage its various stakeholders in the community, to support NParks’ conservation and research endeavours as well as its outreach and educational programmes.

Its mission remains to nurture a love for nature, advocate a sense of ownership, and exhort the community to come play an active part in preserving Singapore’s legacy as a City in a Garden.

Visit www.gardencityfund.org for more information.

Garden City Fund Donors’ Acknowledgement (FY 2018)

We acknowledge and thank the following donors who have generously supported our City in garden efforts, including those who wish to remain anonymous.

$1 million and above
- PSA Corporation Ltd
- Singapore Press Holdings Limited

$100,000 and above
- Advantech Technologies Pte Ltd
- Ascendas Land (Singapore) Pte Ltd
- CGN Foundation
- ExxomMobilt Asia Pacific Pte Ltd
- Goh Foundation Ltd
- Harvest Development Pte Ltd
- Lim Eng Hock
- Mofelece Anthony Terence
- Nanyang INC Pte Ltd
- Neptune Pte Ltd
- Oversea-Chinese Banking Corporation Limited
- Rosdyin Leong Sou Fong
- SymAsia Singapore Fund for Mingxin Foundation
- Takashimaya Singapore Ltd
- Temasek Foundation EcoCity
- Tsien Sam Walton
- Uniserve Automotive Pte Ltd

$10,000 and above
- AMD
- Bioretech Green Pte Ltd
- CCD Singapore Pte Ltd
- Christina Ong
- Citeline International Pte Ltd
- Citrix Systems Singapore Ppte Ltd
- Claris Pte Ltd
- DBS Bank Ltd
- Evax Business Management Pte Ltd
- FC North Gem Trustee Pte Ltd
- Glacio Welcome Manufacturing Pte Ltd
- Goldbell Foundation
- GrabTaxi Holding Pte Ltd
- Huang Khyiaw
- Kepell Foundation
- Lim Chee Kian
- Lim Hoa Ling
- Maizan Banking Berhad
- Mark Anthony Taylor
- Move Media Pte Ltd
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- Oltanking Asia Pacific Pte Ltd
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- Petrochemical Corporation of Singapore (Pte) Ltd
- Petrotel International Co Ltd
- Relax (Singapore) Pte Ltd
- Ruth Goh
- Samwoh Corporation Pte Ltd
- Sharon Grimberg
- Sheng Siong Food Stores Pte Ltd
- Sitronics Singapore Pte Ltd
- Singapore Pools Pte Ltd
- Singapore Press Holdings Foundation Ltd
- Singapore Telecommunications Limited
- Starhub Ltd
- Sumitomo Chemical Asia Pte Ltd
- SymAsia Singapore Fund for Stephen Rady Foundation
- The UPS Foundation
- Tides Foundation (Estee Lauder Cosmetics Pte Ltd)
- Tony Winata
- Total Oil Asia-Pacific Pte Ltd
- Vopak Terminals Singapore Pte Ltd
- Wish Hup Pte Ltd
- WWF Singapore
- Yokogawa Engineering Asia Pte Ltd

Below $10,000
- Accenture Rec Club
- Active Fire Protection Systems Pte Ltd
- Agape Little Ufl-jClamenti
- Amiteswaris Society
- Anand Pradhyth
- Andreas Sopens Piso
- APP Engineering Pte Ltd
- Applied Materials SEA Pte Ltd
- Art of Living Foundation & Staff
- Avani Resources Pte Ltd
- Carl Ward
- Central Singapore Community Development Council
- Central Star (5) Pte Ltd
- Christoph Markus Asberich
- Chua Beng Tong
- Chugai Pharmabody Research Pte Ltd
- CPG Corporation Ltd
- Debbie Lo
- Denka Chemicals Holdings Asia Pacific Pte Ltd
- DHL Express (Singapore) Pte Ltd
- Elizabeth Chai Chee Esthava de Rothschild
- Enny Wijaya
- Equinix Singapore Pte Ltd
- Feinmetal Singapore Pte Ltd
- Foo Siang Keng
- Fujitsu Asia Pte Ltd
- Golden Energy And Resources Ltd
- Gooi Ling Chiew
- Goo Siang Linn
- Heather Leigh-Annt Ensme
- Hidehiko Kojima
- Ho Bee (One North) Pte Ltd
- Hodgson Tong Bee Pte Ltd
- HSBC Institutional Trust Services (Singapore) Limited
- HSL Ground Engineering Pte Ltd
- Huang Chang Yi
- Inteferyl (5) Ltd
- Jurong Engineering Ltd
- K Line Ship Management (5) Pte Ltd
- Kandaiken Co Ltd
- Karen Singnayar
- Kayakadis Paddlesports Pte Ltd
- Keong Hwee Iron Works & Construction Pte Ltd
- Kwan Im Thong Hood Cho Temple
- Lek Yan Ping
- Leo Tan Wee Hin
- Live Nation (3) Pte Ltd
- Marianne Marais
- McKinsey & Company Singapore Pte Ltd
- Ministry of Culture, Community & Youth
- Ministry of Education
- Mitsubishi Electric Asia Pte Ltd
- Mitsubishi Chemicals Asia Pte Ltd
- Mitsubishi Chemicals Singapore R&D Centre Pte Ltd
- Mitsufl Elastomers Singapore Pte Ltd
- Mitsufl Phenols Singapore Pte Ltd
- Neo & Goh Construction Pte Ltd
- Ngien Hoon Ping
- Nibishito Singapore Pte Ltd
- Oltanking Helios Singapore Pte Ltd
- Oltanking Singapore Chemical Storage Pte Ltd
- Oltanking Singapore Ltd
- Orchard Park Novena
- PEC Ltd
- Perod Richard Singapore Pte Ltd
- Philip Lim Feng
- Pramerica Financial Asia
- Headquarters Pte Ltd
- Prime Evolve Singapore Pte Ltd
- Proctor and Gamble International Operations SA Singapore Branch
- Q’SON Kitchen Equipment Pte Ltd
- Quantedge Foundation (5) Ltd
- Rhodium Resources Pte Ltd
- Rolls-Royce Singapore Pte Ltd
- S&P Global
- Safato Asia Pacific Pte Ltd
- SB Property Services Pte Ltd
- SB REIT Management Pte Ltd
- Savvy Corporation
- Sim Beng Mei Mildred
- Singapore Institute of Technology
- Sumitomo Rubber Asia (Tyre) Pte Ltd
- Synergy Trade and Finance Pte Ltd
- Telekomunikasi Indonesia International Pte Ltd
- Tham Puian
- Thatchel Chuing (Singapore)
- TP Utilities Pte Ltd
- Trade Sea International Pte Ltd
- Tridek Pte Ltd
- TTI Design & Engineering Pte Ltd
- Unisks Creative Solutions Pte Ltd
- United Test and Assembly Centre Pte Ltd
- UTAC Manufacturing Services Singapore Pte Ltd
- Wong Ying Li
- Yp Teen Wing

1 Students from seven schools and four youth organisations pitched in to plant nine garden wings located at Ravenhe Cove in East Coast Park. This community project was a platform for youths to express their creativity while beautifying our parks, and was made possible through a generous donation from Mr and Mrs Bahrain Ratnas.

2 Thanks to support from the community and HSBC, Singapore’s first turtle hatchery was opened at the Sisters’ Islands Marine Park, boosting the survivability of hatchlings of the Hawksbill and Green Turtles.

3 The Learning Garden, sponsored by Ascendas-Singbridge, at the Singapore Garden Festival 2018 enabled visitors of all ages to discover more about plants and their pollinators such as butterflies, birds and bees.

Donations listed above are of a minimum amount of $51,000. We thank all other individuals and organisations who have given to the charity.
Sustainability Report

OUR SUSTAINABILITY STORY
Greenery is very much a part of Singapore’s DNA and has been integral to our socioeconomic as well as infrastructure development journey. Our parks, gardens, nature reserves and verdant streetscapes are valuable assets that make Singapore highly liveable and will continue to play a vital role in improving the quality of our living environment.

NParks is committed to conserving nature and biodiversity, nurturing greater community stewardship, and building capabilities within the organisation and industry to uphold Singapore’s reputation and standing as a City in a Garden.

OUR SUSTAINABILITY STRATEGIES ARE:

SUSTAINING OUR CITY IN A GARDEN

CREATING A NETWORK OF GREENERY
NParks is responsible for maintaining and enhancing Singapore’s greenery for future generations. Our nature reserves function as hotspots of rich biodiversity where the public can discover a plethora of wildlife in their natural habitats.

Nature parks have been established on the margins of the nature reserves, acting as green buffers. We enhance the habitats within these buffers so that they provide a rustic and forested environment which serves as recreation spaces.

We have launched the Forest Restoration Action Plan for the Bukit Timah Nature Reserve, Central Catchment Nature Reserve and Nature Park Network in January 2019. The Action Plan will chart the restoration that will be undertaken over the next 10 years to regenerate the secondary forests in the nature parks buffering the two nature reserves, as well as disturbed patches within the reserves. This will assist the forests to regenerate and approximate a mature forest in time.

Complementing this is an extensive network of roadside greenery and strategic green corridors called Nature Ways that facilitates movement of biodiversity such as birds and butterflies. In addition, NParks champions the integration of skyrise greenery into our built environment, as well as the creation of community gardens to connect residents with nature.

CREATING URBAN ECOSYSTEMS
Our greening approach is aimed at restoring natural habitats and bringing people closer to nature. For example, the wetland and forest habitats at the Singapore Botanic Gardens’ Learning Forest were restored and recreated to conserve a wide variety of native flora and fauna.

A network of park connectors, roadside greenery and Nature Ways also helps strengthen the ecological resilience of our nature reserves, the primary repository of native biodiversity.

ENHANCING CLIMATE RESILIENCE THROUGH GREENERY
More than 40% of Singapore is covered in green, in the form of nature reserves, parks, gardens, roadside greenery, skyrise greenery and vacant lands. In 2018, NParks planted about 77,000 trees. Our greenery and green open spaces are well-distributed all over Singapore. These help cool urban temperatures via shade provision and evapotranspiration.

Actively greening Singapore for future generations remains an important aspect as Singapore continues to develop. NParks conserves and enhances existing greenery, and safeguards spaces for future greenery.

These are accomplished in two ways:

a. Embedding climate resilience features into urban green spaces. Our Nature Ways replicate the tiered structure of a tropical forest with native trees and shrubs. They provide important ecosystem services to people and facilitate ecological connectivity for some species.

b. Protecting and strengthening our nature reserves and nature areas. Currently, six nature parks adjacent to our nature reserves have been developed to provide more than 250 ha of protective green buffers. By 2020, we will add two more nature parks at Rifle Range and Thomson to increase our green buffers to more than 370 ha.

SAVING SPECIES
A species recovery programme was initiated in 2015 to conserve native flora and fauna by targeting locally endemic, rare or threatened native species through reintroduction, habitat enhancement and protection efforts. Some of these species occur in small populations in only a few places, and the programme aims to increase these populations and help them survive adverse environmental changes.

1 The Forest Restoration Action Plan will chart the restoration effort that will be undertaken in the next decade for the Bukit Timah Nature Reserve, Central Catchment Nature Reserve and Nature Park Network.
Sustainability Report

ACTIVATING GREEN SPACES
Our gardens and parks are important shared spaces for different communities. These common green spaces provide access to people from all walks of life to come together and enjoy their time amidst nature.

NParks injects vibrancy into our parks and gardens by hosting an average of 4,000 activities, events and programmes island-wide yearly. Signature events include NParks Concert Series in the Park - Rockestra®, Parks Festival, Festival of Biodiversity, and Community Garden Festival.

GETTING INVOLVED
To date, we have more than 45,000 volunteers who play an integral role in helping us achieve our vision of making Singapore our City in a Garden. Our network of volunteers includes community gardeners from the Community in Bloom programme, citizen scientists from the Community in Nature initiative, and members of Friends of the Parks, amongst others. Aged from nine to over 80, they range from students, homemakers, and working professionals, to retirees. Many of them volunteer because they appreciate the opportunity to learn about and contribute towards our conservation efforts. Volunteers often become advocates of our messages, and share with others important biophilic issues.

In December 2018, NParks rolled out a volunteer benefit package to recognise the volunteers’ efforts in co-creating a biophilic City in a Garden through their contributions in areas like nature conservation, gardening, and education and outreach.

STRENGTHENING COMMUNITY STEWARDSHIP
The nationwide Community in Bloom (CIB) gardening movement aims to foster community spirit and bring residents together to make Singapore our garden. Today, there are more than 1,400 community gardens across Singapore, set up and managed by outdoor and indoor gardening groups. NParks will continue to work towards the target of building 2,000 CIB gardens by 2030.

The introduction of the Edible Horticulture Masterplan in November 2017 has further bolstered the CIB programme by encouraging the community to grow edibles. It has helped to engender greater interest in gardening and enables both gardeners and residents to enjoy various benefits of gardening together.

There are also more opportunities to grow edibles via NParks’ allotment gardening scheme. 80 plots were launched at HortPark in July 2016. New plots were released in 10 other parks island-wide from 2016 to 2018 and have been fully taken up. More than 1,000 allotment garden plots have been made available to the community.

Introduced in 2016, the Friends of the Parks initiative builds on the groundswell of community participation. There are now nine Friends of the Parks communities; each comprises local stakeholders, volunteers and enthusiasts coming together to develop ground-led initiatives to promote stewardship and responsible use of our parks and nature reserves.

CREATING A GREAT WORKPLACE
LEARNING AND DEVELOPMENT
Staff are encouraged to grow their professionalism, build capabilities and provide service excellence. NParks develops staff through a competency development framework focusing on business, operational and people excellence.

The Centre for Urban Greenery and Ecology (CUGE) and professional certification bodies conduct in-depth training for operational staff, including formulating a specialised roadmap to develop professional arborist competency. Corporate staff can get certified by industry-recognised agencies such as the Institute of Singapore Chartered Accountants and Institute for Human Resource Professionals.

STAFF WITH PROFESSIONAL OPERATIONAL CERTIFICATIONS (AS OF 2018)
127 Certified Park Managers
235 ISA Certified Arborists
107 Certified Practising Horticulturists
39 Certified Playground Safety Inspectors

STAFF WELL-BEING

The Staff Well-Being Committee works with the Human Resource branch and Staff Union to organise activities that engage our workforce. Each sub-committee comprises approximately 20 members from various divisions who volunteer their time and effort to curate a calendar of events and activities for staff.

In FY2018, more than 300 staff members have contributed over 2,400 hours of their time towards kindness-related activities. Besides ongoing engagements with the Handicaps Welfare Association and Voluntary Welfare Organisations, staff also participated in guiding over 8,000 underprivileged beneficiaries of charities at the Singapore Garden Festival 2018.

RECOGNITION AND AWARDS
Each year, deserving staff are recognised for their exemplary service and work via the Excellent Service Award and Divisional Star Award. In 2018, 30 staff were commended for providing excellent service to internal and external customers, while 11 teams, including members across units and functions, were awarded the Greenery Excellence Awards for their outstanding teamwork and operational standards.

This past year, 202 staff received their Long Service Award for their contributions towards building and caring for our City in a Garden.

1 Different communities regularly come together at our green spaces to enjoy a host of concerts, performances and festivals.
2 In the reporting year, more than 300 staff members contributed over 2,400 hours towards kindness-related activities such as helping out at the Food Bank.

Healthy Lifestyle
Promotes active and healthy living by encouraging staff to participate in sports interest groups and through lunchtime talks.

Social & Recreation
Provides avenues for self-improvement and learning while networking with others through learning journeys and workshops.

Kindness Movement
Nurtures a culture of kindness, compassion and volunteerism among staff for the less privileged in our society.
Facts & Figures FY 2018

NATIONAL DAY AWARDS
Public Administration Medal (Bronze)
Ms Chang Siau Hoon
DIRECTOR (HUMAN RESOURCE)
CORPORATE SERVICES
Ms Phua Chui-Ping Elaine
DIRECTOR (LEGAL SERVICES & PROSECUTION) AND BOARD SECRETARY
CORPORATE SERVICES
Commendation Medal
Ms Camelia H Marican
DEPUTY DIRECTOR (PROGRAMMING & OUTREACH)
HORTPARK
Ng Aik Guan
DEPUTY DIRECTOR (STREETSCAPE (SOUTH WEST))
STREETSCAPE
Tan Swee Kwang
SENIOR MANAGER (STREETSCAPE)
STREETSCAPE
Wong Wai Sung
DEPUTY DIRECTOR (DEVELOPMENT MANAGEMENT)
PARKS DEVELOPMENT
Efficiency Medal
Ms Chin Li Li
SENIOR OFFICER (MOLECULAR BIOLOGY & MICROPROPAGATION)
SINGAPORE BOTANIC GARDENS
Ms Lim Yen Ngh
MANAGER (NURSERY MANAGEMENT)
HORTICULTURE AND COMMUNITY GARDENING
LONG SERVICE MEDAL
Ms Chan Khar Luang
COORDINATING DIRECTOR (WILDLIFE MANAGEMENT) AND DIRECTOR (CENTRAL NATURE RESERVE)
CONSERVATION
Ms Chew Ping Ting
SENIOR MANAGER (CONSERVATION)
CONSERVATION
Mawardi bin Amat
SENIOR OFFICER (PARKS)
PARKS CENTRAL
Ng Aik Guan
DEPUTY DIRECTOR (STREETSCAPE (SOUTH WEST))
STREETSCAPE
Ms Ng Sok Hong
DEPUTY DIRECTOR (PARKS)
PARKS WEST
MUNICIPAL SERVICES AWARDS 2018
Team Category
PUBLIC ENGAGEMENT ON USE OF PERSONAL MOBILITY DEVICES ALONG PARK CONNECTORS
Community Category
RESOLUTION OF SEGAR ROAD MONKEY INCIDENT
AWARDS AND ACCOLADES
2018 MAY DAY AWARDS
Medal of Commendation
Kenneth Er
CHIEF EXECUTIVE OFFICER
Innovative Breakthrough Award
Kampong Admiralty Silver Community Initiative
EXCELLENT SERVICE AWARD 2018
Attractions
2 STAR, 4 GOLD, 1 SILVER
PUBLIC SECTOR TRANSFORMATION AWARDS 2018
Star Service Individual
Peter Lim
Star Service Manager
Ms Taryn Yap
Excel Innovation Project
Therapeutic Garden Movement
MND MINISTER’S AWARD (TEAM) 2018
NParks Maven
Species Recovery of Singapore’s Critically Endangered Freshwater Crab
COMMUNITY CHEST BRONZE AWARD 2018
NParks Maven
Species Recovery of Singapore’s Critically Endangered Freshwater Crab
MUNICIPAL SERVICES AWARDS 2018
Team Category
PUBLIC ENGAGEMENT ON USE OF PERSONAL MOBILITY DEVICES ALONG PARK CONNECTORS
Community Category
RESOLUTION OF SEGAR ROAD MONKEY INCIDENT
EXCELLENT SERVICE AWARD 2018
Attractions
2 STAR, 4 GOLD, 1 SILVER
PUBLIC SECTOR TRANSFORMATION AWARDS 2018
Star Service Individual
Peter Lim
Star Service Manager
Ms Taryn Yap
Excel Innovation Project
Therapeutic Garden Movement
MND MINISTER’S AWARD (TEAM) 2018
NParks Maven
Species Recovery of Singapore’s Critically Endangered Freshwater Crab
COMMUNITY CHEST BRONZE AWARD 2018
Bishan-Ang Mo Kio Park
CUGE TRAINING PROGRAMMES
The Centre for Urban Greenery and Ecology (CUGE) was established by NParks as a regional centre of excellence to advance an urban and green living environment, and a one-stop training and knowledge hub in urban greenery and ecology.
### Facts & Figures FY 2018

#### REGIONAL PARKS MAINTAINED BY NPARKS

<table>
<thead>
<tr>
<th>Park Name</th>
<th>Area (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiralty Park</td>
<td>25.67</td>
</tr>
<tr>
<td>Ang Mo Kio Town Garden East</td>
<td>4.88</td>
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<tr>
<td>Ang Mo Kio Town Garden West</td>
<td>20.63</td>
</tr>
<tr>
<td>Bedok Reservoir Park</td>
<td>42.39</td>
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<tr>
<td>Bedok Town Park</td>
<td>13.66</td>
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<tr>
<td>Bishan-Ang Mo Kio Park</td>
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<tr>
<td>Bukit Batok Nature Park</td>
<td>35.74</td>
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<tr>
<td>Bukit Batok Town Park - Little Guillin</td>
<td>41.60</td>
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<tr>
<td>Bukit Timah Nature Reserve</td>
<td>162.64</td>
</tr>
<tr>
<td>Central Catchment Nature Reserve</td>
<td>455.00</td>
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<tr>
<td>Changi Beach Park (including Changi Point Promenade)</td>
<td>29.15</td>
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<tr>
<td>Chestnut Nature Park</td>
<td>81.00</td>
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<tr>
<td>Choa Chu Kang Park</td>
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<tr>
<td>Clementi Woods Park</td>
<td>11.48</td>
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<td>Coney Island Park</td>
<td>83.30</td>
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<td>Dairy Farm Nature Park</td>
<td>63.00</td>
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<td>East Coast Park</td>
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<tr>
<td>Esplanade Park</td>
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<tr>
<td>Fort Canning Park</td>
<td>18.04</td>
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<tr>
<td>Hindhede Nature Park</td>
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</tr>
<tr>
<td>Hong Lim Park</td>
<td>1.28</td>
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<td>HortPark</td>
<td>24.04</td>
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<tr>
<td>Istana Park</td>
<td>1.29</td>
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<tr>
<td>Jurong Central Park</td>
<td>7.98</td>
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<tr>
<td>Jurong Lake Gardens</td>
<td>84.69</td>
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<tr>
<td>Kallang Riverside Park</td>
<td>5.16</td>
</tr>
<tr>
<td>Kent Ridge Park</td>
<td>48.40</td>
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<tr>
<td>Kranji Marshes</td>
<td>56.29</td>
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<tr>
<td>Kranji Reservoir Park</td>
<td>4.13</td>
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<tr>
<td>Labrador Park and Nature Reserve</td>
<td>22.78</td>
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<tr>
<td>Lower Peirce Reservoir Park</td>
<td>10.00</td>
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<tr>
<td>Lower Seletar Reservoir Park</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Park Name</th>
<th>Area (ha)</th>
</tr>
</thead>
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<tr>
<td>MacRitchie Reservoir Park</td>
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<td>Marina Promenade</td>
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<td>Marsiling Park</td>
<td>11.35</td>
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<tr>
<td>Mount Faber Park</td>
<td>58.80</td>
</tr>
<tr>
<td>My Waterway &amp; Punggol</td>
<td>12.30</td>
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<tr>
<td>one-North Park</td>
<td>3.39</td>
</tr>
<tr>
<td>Pasir Ris Park</td>
<td>73.39</td>
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<tr>
<td>Pasir Ris Town Park</td>
<td>12.36</td>
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<tr>
<td>Pearl’s Hill City Park</td>
<td>8.50</td>
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<tr>
<td>Pulau Ubin Recreation Area</td>
<td>692.18</td>
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<tr>
<td>Punggol Park</td>
<td>16.66</td>
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<tr>
<td>Rifle Range Nature Park</td>
<td>67.00</td>
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<tr>
<td>Sembawang Park</td>
<td>15.58</td>
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<tr>
<td>Sengkang Riverside Park</td>
<td>21.08</td>
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<tr>
<td>Singapore Botanic Gardens</td>
<td>82.00</td>
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<tr>
<td>Sisters’ Islands Marine Park</td>
<td>47.68</td>
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<tr>
<td>Springleaf Nature Park</td>
<td>10.78</td>
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<tr>
<td>Sun Plaza Park</td>
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<tr>
<td>Sungei Buloh Wetland Reserve</td>
<td>193.31</td>
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<tr>
<td>Tampines Eco-Green</td>
<td>36.61</td>
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<tr>
<td>Telok Blangah Hill Park</td>
<td>36.88</td>
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<tr>
<td>Tiong Bahru Park</td>
<td>3.33</td>
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<tr>
<td>Toa Payoh Town Park</td>
<td>4.91</td>
</tr>
<tr>
<td>Upper Peirce Reservoir Park</td>
<td>4.00</td>
</tr>
<tr>
<td>Upper Seletar Reservoir Park</td>
<td>15.00</td>
</tr>
<tr>
<td>War Memorial Park</td>
<td>1.74</td>
</tr>
<tr>
<td>West Coast Park</td>
<td>50.13</td>
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<tr>
<td>Windsor Nature Park</td>
<td>75.00</td>
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<tr>
<td>Woodlands Waterfront Park</td>
<td>11.22</td>
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<tr>
<td>Yishun Park</td>
<td>13.22</td>
</tr>
<tr>
<td>Youth Olympic Park</td>
<td>0.66</td>
</tr>
<tr>
<td>Zhenghua Nature Park</td>
<td>17.30</td>
</tr>
</tbody>
</table>

| TOTAL NUMBER OF PARKS                         | 64        |
| TOTAL AREA MAINTAINED                        | 2,810.98  |
| **Includes Bukit Timah Nature Reserve, Central Catchment Nature Reserve, Sungei Buloh Wetland Reserve and Labrador Nature Reserve which have been computed under “Nature reserves”** |
| Nature reserves                              | 3,347     |
| Istana and Parliament House grounds           | 42        |
| Roadside greenery                             | 2,110.73  |
| Vacant state land                            | 58.77     |
| State land taken over from Mar 2019***        | 4,311     |

** Excludes Bukit Timah Nature Reserve, Central Catchment Nature Reserve, Sungei Buloh Wetland Reserve and Labrador Nature Reserve which have been computed under “Nature reserves”**

*** Greenery on vacant land taken over from agencies
Corporation Governance FY 2018

The Board has established the following committees to assist it in carrying out its duties:

Audit Committee
The Audit Committee comprises three non-executive Board members. The Audit Committee ensures a high standard of corporate governance through independent reviews of internal controls, financial reporting processes and financial risks. In addition, the Audit Committee reviews the audited financial statements, as well as the audit plans and observations of external and internal auditors, and also reviews the effectiveness of internal audit.

CHAIRMAN
Mr Guy Harvey-Samuel
MEMBERS
Ms Shantini Ramachandra
Mr Musa Fazal

Human Resource and Compensation Committee
The Human Resource and Compensation Committee comprises three non-executive Board members. Its role is to review key human resource policies and provide strategic oversight of related risks.

CHAIRMAN
Mr Andreas Sohmen-Pao
MEMBERS
Dr Suriani Suratman
Mr Warren Fernandez

Operations Risk Committee
The Operations Risk Committee comprises three non-executive Board members, including the Chairman of the Board. Its role is to provide strategic oversight on NParks’ operations risk management framework and conduct reviews of NParks’ operations risks. The Operations Risk Committee also oversees the implementation of risk mitigation plans, policies and practices.

CHAIRMAN
Mr Benny Lim
MEMBERS
Mr George Huang
Mr Cheng Hsing Yao

Garden City Fund Management Committee
The Garden City Fund Management Committee manages and administers the Garden City Fund, a registered charity and an Institution of Public Character to plan, develop, promote and manage the Garden City Fund in accordance with its Trust Deed.

BOARDS Conduct of its Affairs
The Board meets four times a year and as and when necessary to address any significant matters that may arise. To enable the Board to fulfil its responsibilities, the Management Team provides the Board members adequate information during Board meetings and on an ongoing basis. The Board also has direct and independent access to the Management Team if further information and explanation are required.

Code of Conduct
Members of the Board are guided by a set of key principles and guidelines to ensure fairness and impartiality in carrying out its responsibilities, as well as to uphold the integrity and reputation of the Public Service, including adhering to the Public Sector (Governance) Act (Act 5 of 2018).

Accountability and Audit
NParks’ internal control system ensures that assets are safeguarded, proper accounting records are maintained, and financial information is reliable. The overall control framework includes:

• An organisation structure with clearly defined authority and delegation limits and reporting mechanisms to higher levels of management and to the Board;
• An annual budgeting and quarterly financial reporting system for all operating units that enables progress against annual plans and objectives to be monitored;
• Compliance with the provisions of the National Parks Board Act (Chapter 198A), Public Sector (Governance) Act (Act 5 of 2018), Statutory Board Financial Reporting Standards, Government Instruction Manuals, Finance and PSD Circulars and Minutes for policies and procedures related to operations, human resource management and financial controls and regulations; and
• A risk management framework which ensures close monitoring with proper mitigating measures for all identified high risk areas.

Please refer to pg 46 for the work of Garden City Fund in the year in review.

Responsibilities of the Board:

• Provide oversight and endorsement on broad directions, policies and strategies relating to NParks’ achievement of its vision, mission and objectives, and performance of its functions;

• Oversee NParks’ operating and financial performance taking into account NParks’ budget, expenditure, assets, transactions and projects;

• Provide guidance on matters relating to NParks’ parks and infrastructure development programmes; and

• Approve NParks’ tenders as members of the relevant Tender Approving Authority for approval of tenders.

NParks is overseen by a Board comprising 10 members. All the Board members are non-executive members, except for the Chief Executive Officer. The Board derives its strength from the extensive and complementary backgrounds, qualifications and experience of its members.
Publications

BOOKS

Singapore Garden Photographer of the Year
Singapore Garden Photographer of the Year won the Grand Award in the 2016 APEX Awards for Publication Excellence under the category of One-of-a-Kind Publication – Green.

Rainforest in a City
BY CHUA EE KIAM

Footprints on an Island – Rediscovering Pulau Ubin
BY CHUA EE KIAM, CKOH MUi-ENG AND WONG TUAN WAH
Footprints on an Island – Rediscovering Pulau Ubin won the Nautilus 2016 Silver Award in the Multicultural & Indigenous category, and was recognised in the in the One-Of-A-Kind Publication (Green) category at the 30th Annual APEX Awards for Publication Excellence competition.

Gingers of Cambodia, Laos & Vietnam
BY JANA LEONG-SKORNIČKOVÁ AND MARK NEWMAN

A Walk Through History – A Guide to the Singapore Botanic Gardens
BY NIGEL TAYLOR AND ADA DAVIS

Migratory Birds of Sungei Buloh Wetland Reserve
BY JAMES GAN, MENDIS TAN AND DAVID LI

My Green Space: Indoor Gardening Made Simple
BY LILY CHEN, NG SHAN JUN, ANG WEE FOONG, ET AL.

Trees of Our Garden City
EDITED BY TEE SHEE PING

Secrets of the Swamp
BY NEIL HUMPHREYS AND ILLUSTRATED BY CHENG PUAY KOON
Secrets of the Swamp won the Best Book award for 6-8 year olds in the 2014 Harper’s Bazaar Junior Toy Awards.

Living in a Garden – The Greening of Singapore
BY TIMOTHY AUGER

Caterpillars of Singapore’s Butterflies
BY HORACE TAN AND KHEW SIN KHOON

Books

PERIODICALS

Gardenwise
August 2018 & February 2019

CITYGREEN, issue 16 - Nature for Urban Minds

JOURNALS

The Gardens’ Bulletin Singapore, May 2018 & December 2018

Dragons of Our Wetlands
BY ROBIN NGIAM

The Hunt for the Green Boomerang
BY NEIL HUMPHREYS AND ILLUSTRATED BY CHENG PUAY KOON

FIND OUT MORE AT www.stpressbooks.com.sg

Erotica

Caterpillars of the City
BY JAMES GAN, MENDIS TAN AND DAVID LI

Birds of Our Wetlands – A Journey Through Sungei Buloh Wetland Reserve
BY DR LEONG TZI MING

CATERPILLARS OF THE CITY

Books

JOURNALS

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August 2018 & February 2019

CITYGREEN, issue 16 - Nature for Urban Minds

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BY DR LEONG TZI MING


Financial Review

INCOME
The Group’s income comprised mainly rental income from souvenir kiosks and food & beverage outlets in Singapore Botanic Gardens and Fort Canning Park. The income for the year was $24.4 million. The increase from last year’s income was mainly due to the increase in admission charges and interest income, offset by the decrease in agency fees.

<table>
<thead>
<tr>
<th>Income</th>
<th>FY 2018 $’000</th>
<th>FY 2017 $’000</th>
<th>Increase/(Decrease) $’000</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rental income</td>
<td>9,032</td>
<td>9,732</td>
<td>(700)</td>
<td>(7)</td>
</tr>
<tr>
<td>Admission charges</td>
<td>3,123</td>
<td>2,140</td>
<td>983</td>
<td>46</td>
</tr>
<tr>
<td>Plan fees</td>
<td>2,626</td>
<td>2,428</td>
<td>198</td>
<td>8</td>
</tr>
<tr>
<td>Course fees</td>
<td>1,456</td>
<td>1,455</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Agency fees</td>
<td>748</td>
<td>1,514</td>
<td>(766)</td>
<td>(51)</td>
</tr>
<tr>
<td>Interest income</td>
<td>3,916</td>
<td>2,957</td>
<td>959</td>
<td>32</td>
</tr>
<tr>
<td>Carpark income</td>
<td>1,003</td>
<td>880</td>
<td>123</td>
<td>14</td>
</tr>
<tr>
<td>Miscellaneous income</td>
<td>2,538</td>
<td>2,401</td>
<td>137</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>$24,442</td>
<td>$23,507</td>
<td><strong>935</strong></td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

Operating Expenditure
The Group’s operating expenditure for the year was $307.4 million. The 7% increase from last year’s expenditure was mainly due to an increase in the maintenance of parks and general and administrative expenses.

<table>
<thead>
<tr>
<th>Operating Expenditure</th>
<th>FY 2018 $’000</th>
<th>FY 2017 $’000</th>
<th>Increase/(Decrease) $’000</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff costs</td>
<td>104,446</td>
<td>102,528</td>
<td>1,918</td>
<td>2</td>
</tr>
<tr>
<td>Maintenance of parks</td>
<td>141,820</td>
<td>134,246</td>
<td>7,574</td>
<td>6</td>
</tr>
<tr>
<td>General and</td>
<td>49,158</td>
<td>38,070</td>
<td>11,088</td>
<td>29</td>
</tr>
<tr>
<td>Administrative costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation</td>
<td>12,018</td>
<td>11,313</td>
<td>705</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Operating</strong></td>
<td>$307,442</td>
<td>$286,157</td>
<td><strong>21,285</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>
Financial Review

CAPITAL EXPENDITURE

The Group’s capital expenditure for the year was $28.8 million. The increase in capital expenditure was mainly due to the improvement works carried out in Singapore Botanic Gardens and Fort Canning Park.

Capital Expenditure for FY 2018 & FY 2017

- Land and other improvements: 3% (FY 2018) vs. <1% (FY 2017)
- Equipment: 12% (FY 2018) vs. 9% (FY 2017)
- Motor Vehicles: <1% (FY 2018) vs. 3% (FY 2017)
- Development work-in-progress: 88% (FY 2018) vs. 88% (FY 2017)

FINANCIAL POSITION

As at 31 March 2019, the Group’s total assets stood at $412 million, an increase of 5% over last year. Non-current assets and current assets represent 34% and 66% of total assets respectively. Non-current assets consisted mainly of leasehold land and buildings and structures at Singapore Botanic Gardens and Fort Canning Park. Capital and reserve stood at $211.2 million, while current and non-current liabilities stood at $75.1 million and $125.7 million respectively.

Total Assets

Assets | FY 2018 | FY 2017 | Increase/(Decrease) | % Change
---|---|---|---|---
Non-current assets | $138,199 | $121,880 | $16,319 | 13%
Current assets | $273,849 | $269,282 | $4,567 | 2%
Total Assets | $412,048 | $391,162 | $20,886 | 5%

Total Liabilities & Equity

Equity & Liabilities | FY 2018 | FY 2017 | Increase/(Decrease) | % Change
---|---|---|---|---
Capital & reserves | $211,226 | $192,042 | $19,184 | 10%
Non-current liabilities | $125,688 | $115,496 | $10,192 | 9%
Current liabilities | $75,134 | $83,624 | $(8,490) | (10)%
Total Liabilities & Equity | $412,048 | $391,162 | $20,886 | 5%
In our opinion,

(a) the accompanying financial statements of National Parks Board ("NParks") and its subsidiary (the "Group"), are properly drawn up in accordance with the provisions of the National Parks Board Act, Chapter 198A (the "Act"), the Public Sector (Governance) Act 2018, Act 5 of 2018 other relevant regulations (the "Parks and Trees Act and Regulations") and Statutory Board Financial Reporting Standards ("SB-FRS") so as to present fairly, in all material respects, the financial position of the Group and NParks as at 31 March 2019, and the financial performance, changes in equity of the Group and NParks and cash flows of the Group for the financial year ended on that date;

(b) proper accounting and other records have been kept, including records of all assets of NParks whether purchased, donated or otherwise; and

(c) the receipt, expenditure, investments of moneys and the acquisition and disposal of assets by NParks during the financial year have been in accordance with the provisions of the Act and the Public Sector (Governance) Act.

On behalf of the National Parks Board and its subsidiary:

Benny Lim
Chairman

Kenneth Er Boon Hwee
Chief Executive Officer

Singapore
17 July 2019
Independent auditor’s report
For the financial year ended 31 MARCH 2019

REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS

Opinion
We have audited the financial statements of National Parks Board ("NParks") and its subsidiary (collectively, the "Group"), which comprise the statements of financial position of the Group and NParks as at 31 March 2019, the statements of comprehensive income, statements of changes in equity of the Group and NParks and the consolidated cash flow statement of the Group for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements of the Group, the statement of financial position, statement of comprehensive income and statement of changes in equity of NParks are properly drawn up in accordance with the provisions of the National Parks Board Act, Chapter 198A (the "Act"), the Public Sector (Governance) Act 2016, Act 5 of 2018 (the "Public Sector (Governance) Act"), other relevant regulations (the "Parks and Trees Act and Regulations") and Statutory Board Financial Reporting Standards ("SB-FRS"), so as to present fairly, in all material respects, the state of affairs of the Group and NParks as at 31 March 2019 and the results and changes in equity of Group and NParks and cash flows of the Group for the year ended on that date.

Basis for Opinion
We conducted our audit in accordance with Singapore Standards on Auditing ("SSAs"). Our responsibilities under those standards are further described in the Auditor’s responsibilities for the audit of the financial statements section of our report. We are independent of the Group in accordance with the Accounting and Corporate Regulatory Authority ("ACRA") Code of Professional Conduct and Ethics for Public Accountants and Accounting Entities ("ACRA Code") together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ACRA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Other Information
Management is responsible for the other information. The other information comprises the information included in the annual report and the statement by National Parks Board, but does not include the financial statements and our auditor’s report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of management for the financial statements
Management is responsible for the preparation and fair presentation of the financial statements in accordance with the provisions of the Act, the Public Sector (Governance) Act, Parks and Trees Act and Regulations and SB-FRS, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

A statutory board is constituted based on its Act and its dissolution requires Parliament's approval. In preparing the financial statements, management is responsible for assessing the Group’s ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless there is intention to wind up the Group or for the Group to cease operations.

Those charged with governance are responsible for overseeing the Group’s financial reporting process.

Auditor’s responsibilities for the audit of the financial statements
Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor’s report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SSAs, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

• Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

• Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group’s internal control.

• Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

• Conclude on the appropriateness of management’s use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group’s ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor’s report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor’s report. However, future events or conditions may cause the Group to cease to continue as a going concern.
• Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

• Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with the management regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

**REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS**

**Opinion**

In our opinion:

(a) the receipts, expenditure, investments of moneys and the acquisition and disposal of assets by the Board during the year are, in all material respects, in accordance with the provisions of the Act, the Public Sector (Governance) Act and the requirements of any other written law applicable to moneys of or managed by NParks.

(b) proper accounting and other records have been kept, including records of all assets of NParks whether purchased, donated or otherwise.

**Basis for opinion**

We concluded our audit in accordance with SSAs. Our responsibilities under those standards are further described in the Auditors’ responsibilities for the compliance audit section of our report. We are independent of the Board in accordance with the ACRA Code together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our ethical responsibilities in accordance with these requirements and the ACRA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on management’s compliance.

**Responsibilities of management for compliance with legal and regulatory requirements**

Management is responsible for ensuring that the receipts, expenditure, investments of moneys and the acquisition and disposal of assets, are in accordance with the provisions of the Act, the Public Sector (Governance) Act and the requirements of any other written law applicable to moneys of or managed by NParks. This responsibility includes monitoring related compliance requirements relevant to NParks, and implementing internal controls as management determines are necessary to enable compliance with the requirements.

**Auditor’s responsibilities for compliance audit**

Our responsibility is to express an opinion on management’s compliance based on our audit of the financial statements. We planned and performed the compliance audit to obtain reasonable assurance about whether the receipts, expenditure, investments of moneys and the acquisition and disposal of assets, are in accordance with the provisions of the Act, the Public Sector (Governance) Act and the requirements of any other written law applicable to moneys of or managed by NParks.

Our compliance audit includes obtaining an understanding of the internal control relevant to the receipts, expenditure, investments of moneys and the acquisition and disposal of assets; and assessing the risks of material misstatement of the financial statements from non-compliance, if any, but not for the purpose of expressing an opinion on the effectiveness of NParks’ internal control. Because of the inherent limitations in any accounting and internal control system, non-compliances may nevertheless occur and not be detected.

**Ernst & Young LLP**

Public Accountants and Chartered Accountants

Singapore

17 July 2019
## Statement of financial position

**As at 31 March 2019**

### ASSETS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>6</td>
<td>260,987,766</td>
<td>259,682,009</td>
<td>260,688,545</td>
<td>259,444,803</td>
</tr>
<tr>
<td>Trade receivables</td>
<td>7</td>
<td>3,068,256</td>
<td>1,977,871</td>
<td>3,068,256</td>
<td>1,973,491</td>
</tr>
<tr>
<td>Other receivables</td>
<td>8</td>
<td>6,224,433</td>
<td>4,167,660</td>
<td>6,237,136</td>
<td>4,190,963</td>
</tr>
<tr>
<td>Prepayments</td>
<td>3</td>
<td>3,568,130</td>
<td>3,454,601</td>
<td>3,566,780</td>
<td>3,451,910</td>
</tr>
<tr>
<td><strong>Total current assets</strong></td>
<td></td>
<td>273,848,585</td>
<td>269,282,141</td>
<td>273,560,717</td>
<td>269,061,167</td>
</tr>
<tr>
<td>Non-current assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade receivables</td>
<td>7</td>
<td>840,000</td>
<td>1,008,000</td>
<td>840,000</td>
<td>1,008,000</td>
</tr>
<tr>
<td>Property, plant and equipment</td>
<td>10</td>
<td>137,359,097</td>
<td>120,871,628</td>
<td>137,359,097</td>
<td>120,871,628</td>
</tr>
<tr>
<td>Investment in a subsidiary</td>
<td>9</td>
<td>–</td>
<td>–</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total non-current assets</strong></td>
<td></td>
<td>138,199,097</td>
<td>121,879,628</td>
<td>138,199,099</td>
<td>121,879,630</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td></td>
<td>412,047,682</td>
<td>391,161,769</td>
<td>411,759,816</td>
<td>390,940,797</td>
</tr>
</tbody>
</table>

### LIABILITY AND EQUITY

| Current liabilities |     |             |             |             |             |
| Trade and other payables | 12  | 60,521,882  | 63,600,055  | 60,517,092  | 63,594,975  |
| Provision for pension costs | 13  | 120,000     | 1,871,099   | 120,000     | 1,871,099   |
| Government grants received in advance | 11  | 8,565,513   | 14,062,331  | 8,565,513   | 14,062,331  |
| Deferred revenue | 14  | 2,538,374   | 2,746,762   | 2,538,374   | 2,746,762   |
| Contribution to consolidated fund | 15  | 3,388,055   | 1,344,069   | 3,388,055   | 1,344,069   |
| **Total current liabilities** |      | 75,133,824  | 83,624,316  | 75,129,034  | 83,619,236  |
| Non-current liabilities |     |             |             |             |             |
| Deferred capital grants | 16  | 121,182,419 | 111,467,742 | 121,182,419 | 111,467,742 |
| Deferred revenue | 14  | 2,208,911   | 2,453,345   | 2,208,911   | 2,453,345   |
| Provision for pension costs | 13  | 2,296,137   | 1,574,789   | 2,296,137   | 1,574,789   |
| **Total non-current liabilities** |      | 125,687,467 | 115,495,876 | 125,687,467 | 115,495,876 |

### Capital and other funds

| Capital account | 17  | 4,528,275   | 4,528,275   | 4,528,275   | 4,528,275   |
| Share capital | 18  | 6,436,238   | 2,958,095   | 6,436,238   | 2,958,095   |
| Accumulated surplus | 200,261,876 | 184,555,207 | 199,978,802 | 184,339,315 |
| **Total capital and other funds** |      | 211,226,391 | 192,041,577 | 210,943,315 | 191,825,685 |

### Total liabilities and equity

<table>
<thead>
<tr>
<th>2018/2019 $</th>
<th>2017/2018 $</th>
</tr>
</thead>
<tbody>
<tr>
<td>412,047,682</td>
<td>391,161,769</td>
</tr>
<tr>
<td>411,759,816</td>
<td>390,940,797</td>
</tr>
</tbody>
</table>

### Net assets of Garden City Fund

<table>
<thead>
<tr>
<th>2018/2019 $</th>
<th>2017/2018 $</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,156,968</td>
<td>9,675,357</td>
</tr>
<tr>
<td>10,156,968</td>
<td>9,675,357</td>
</tr>
</tbody>
</table>

### Net assets of National Productivity Fund

<table>
<thead>
<tr>
<th>2018/2019 $</th>
<th>2017/2018 $</th>
</tr>
</thead>
<tbody>
<tr>
<td>109,998</td>
<td>79,485</td>
</tr>
<tr>
<td>109,998</td>
<td>79,485</td>
</tr>
</tbody>
</table>

The accompanying notes form an integral part of the financial statements.
## Statement of comprehensive income

For the financial year ended 31 March 2019

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME OR EXPENDITURE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating income</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rental income</td>
<td>21</td>
<td>9,032,441</td>
<td>9,732,140</td>
<td>9,032,441</td>
</tr>
<tr>
<td>Admission charges</td>
<td>21</td>
<td>3,123,431</td>
<td>2,139,599</td>
<td>3,123,431</td>
</tr>
<tr>
<td>Plan fees</td>
<td>21</td>
<td>2,625,575</td>
<td>2,428,400</td>
<td>2,625,575</td>
</tr>
<tr>
<td>Course fees</td>
<td>21</td>
<td>1,455,664</td>
<td>1,455,048</td>
<td>1,455,664</td>
</tr>
<tr>
<td>Agency fees</td>
<td>21</td>
<td>748,364</td>
<td>1,514,300</td>
<td>748,364</td>
</tr>
<tr>
<td>Interest income</td>
<td>21</td>
<td>3,915,617</td>
<td>2,957,252</td>
<td>3,915,617</td>
</tr>
<tr>
<td>Carpark income</td>
<td>21</td>
<td>1,003,237</td>
<td>880,058</td>
<td>1,003,237</td>
</tr>
<tr>
<td>Miscellaneous income</td>
<td>21</td>
<td>2,537,503</td>
<td>2,400,452</td>
<td>2,440,806</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>24,441,832</td>
<td>23,507,249</td>
<td>24,345,135</td>
</tr>
<tr>
<td>Operating expenditure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staff costs</td>
<td>22</td>
<td>(1,044,460,404)</td>
<td>(1,025,28,245)</td>
<td>(1,044,460,404)</td>
</tr>
<tr>
<td>Maintenance of parks</td>
<td></td>
<td>(141,819,602)</td>
<td>(134,245,722)</td>
<td>(141,819,602)</td>
</tr>
<tr>
<td>General and administrative expenses</td>
<td></td>
<td>(49,158,604)</td>
<td>(38,070,420)</td>
<td>(49,129,091)</td>
</tr>
<tr>
<td>Depreciation of property, plant and equipment</td>
<td>10</td>
<td>(12,018,250)</td>
<td>(11,312,999)</td>
<td>(12,018,250)</td>
</tr>
<tr>
<td><strong>Deficit from operations</strong></td>
<td></td>
<td>(307,442,496)</td>
<td>(286,157,386)</td>
<td>(307,412,983)</td>
</tr>
<tr>
<td><strong>Surplus before contribution to consolidated fund</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surplus for the year, representing total comprehensive income for the year</strong></td>
<td>16</td>
<td>11,002,761</td>
<td>11,158,802</td>
<td>11,002,761</td>
</tr>
<tr>
<td></td>
<td></td>
<td>302,997,585</td>
<td>270,574,275</td>
<td>302,997,585</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16,608,866</td>
</tr>
</tbody>
</table>

The accompanying notes form an integral part of the financial statements.

## Statements of changes in equity

For the financial year ended 31 March 2019

<table>
<thead>
<tr>
<th>Capital account</th>
<th>Share capital</th>
<th>Accumulated Surplus</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td><strong>Group</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 1 April 2017</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surplus for the year, representing total comprehensive income for the year</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6,580,069</td>
<td>6,580,069</td>
</tr>
<tr>
<td><strong>Transactions with owners, recognized directly in equity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equity injection (Note 18)</td>
<td></td>
<td>–</td>
<td>1,925,295</td>
</tr>
<tr>
<td>Funding for government projects (Note 24)</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total transactions with owners, in their capacity as owners</strong></td>
<td></td>
<td>–</td>
<td>1,925,295</td>
</tr>
<tr>
<td>At 31 March 2018 and 1 April 2018</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surplus for the year, representing total comprehensive income for the year</strong></td>
<td></td>
<td>–</td>
<td>16,608,866</td>
</tr>
<tr>
<td><strong>Transactions with owners, recognized directly in equity</strong></td>
<td></td>
<td>–</td>
<td>3,478,143</td>
</tr>
<tr>
<td>Funding for government projects (Note 24)</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Total transactions with owners, in their capacity as owners</strong></td>
<td></td>
<td>–</td>
<td>3,478,143</td>
</tr>
<tr>
<td>At 31 March 2019</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surplus for the year, representing total comprehensive income for the year</strong></td>
<td></td>
<td>4,528,275</td>
<td>6,436,238</td>
</tr>
</tbody>
</table>

(1) Included in accumulated surplus is an amount of $52,281,254 (2017/2018: $50,357,044) which has been earmarked by the Group to fund future replacement and capital improvement of property, plant and equipment.
NParks

At 1 April 2017

<table>
<thead>
<tr>
<th>Capital account</th>
<th>Share capital</th>
<th>Accumulated Surplus (1)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>4,528,275</td>
<td>1,032,800</td>
<td>185,677,114</td>
<td>191,238,189</td>
</tr>
</tbody>
</table>

Surplus for the year, representing total comprehensive income for the year

Transactions with owners, recognised directly in equity

| Equity injection (Note 18) | – | 1,925,295 | – | 1,925,295 |
| Funding for government projects (Note 24) | – | – | (7,900,017) | (7,900,017) |

Total transactions with owners, in their capacity as owners

| – | 1,925,295 | (7,900,017) | (5,974,722) |

At 31 March 2018 and 1 April 2018

<table>
<thead>
<tr>
<th>Capital account</th>
<th>Share capital</th>
<th>Accumulated Surplus (1)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>4,528,275</td>
<td>2,958,095</td>
<td>184,339,315</td>
<td>191,825,685</td>
</tr>
</tbody>
</table>

Surplus for the year, representing total comprehensive income for the year

Transactions with owners, recognised directly in equity

| Equity injection (Note 18) | – | 3,478,143 | – | 3,478,143 |
| Funding for government projects (Note 24) | – | – | (902,195) | (902,195) |

Total transactions with owners, in their capacity as owners

| – | 3,478,143 | (902,195) | 2,575,948 |

At 31 March 2019

<table>
<thead>
<tr>
<th>Capital account</th>
<th>Share capital</th>
<th>Accumulated Surplus (1)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>4,528,275</td>
<td>6,436,238</td>
<td>199,978,802</td>
<td>210,943,315</td>
</tr>
</tbody>
</table>

(1) Included in accumulated surplus is an amount of $52,281,254 (2017/2018: $50,357,044) which has been earmarked by NParks to fund future replacement and capital improvement of property, plant and equipment.

The accompanying notes form an integral part of the financial statements.
Notes to the financial statements
For the financial year ended 31 March 2019

1. GENERAL
National Parks Board ("NParks") is a statutory board under the Ministry of National Development ("MND") established under the National Parks Board Act (Chapter 198A).
The Board has its registered office at Singapore Botanic Gardens, 1 Cluny Road, Singapore 259569.
The primary activities of NParks are to develop, manage and promote the National Parks and Nature Reserves as valuable reserves for recreation, conservation, research and education and to develop, upgrade, manage and maintain the public parks, open spaces on behalf of the Government.
There has been no significant changes in the nature of these activities during the financial year.
The principal activities of the subsidiary are described in Note 9 to the financial statements.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES
2.1 Basis of accounting
The financial statements have been prepared in accordance with the historical cost basis, except as disclosed in the accounting policies below, and are drawn up in accordance with the provisions of the Act, and SB-FRS, including Interpretation of SB-FRS ("INT SB-FRS") and SB-FRS Guidance Notes.

The financial statements are presented in Singapore Dollar (SGD or $), which is the Group’s functional currency, and rounded to the nearest dollar.

2.2 Adoption of new and revised standards
On 1 April 2018, the Group adopted all the new and revised SB-FRSs and INT SB-FRS and SB-FRS Guidance Notes that are effective from that date and are relevant to its operations. The adoption of these new/revised SB-FRSs, INT SB-FRSs and SB-FRS Guidance Notes did not result in changes to the Group’s accounting policies and had no material effect on the results or position of the Group and NParks.

<table>
<thead>
<tr>
<th>Description</th>
<th>Effective for annual periods beginning on or after</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-FRS 116 Leases</td>
<td>1 January 2019</td>
</tr>
<tr>
<td>SB-FRS INT 123 Uncertainty over Income Tax Treatments</td>
<td>1 January 2019</td>
</tr>
<tr>
<td>Amendments to SB-FRS 109 Prepayment Features with Negative Compensations</td>
<td>1 January 2019</td>
</tr>
<tr>
<td>Annual improvement to SB-FRSs 2015-2017 Cycle</td>
<td>1 January 2019</td>
</tr>
<tr>
<td>SB-FRS 1002 Impairment of Non-Cash-Generating Assets</td>
<td>1 January 2019</td>
</tr>
</tbody>
</table>

2.2 Adoption of new and revised standards (continued)
Except for SB-FRS 116, the Group expects that the adoption of the other standards and interpretation above will have no material impact on the financial statements in the period of initial application. The nature of the impending changes in accounting period on adoption of SB-FRS 116 is described below:

SB-FRS 116 Leases
SB-FRS 116 requires lessees to recognise most leases on balance sheets. The standard includes two recognition exemptions for lessees – leases of 'low value' assets and short-term leases. SB-FRS 116 is effective for annual periods beginning on or after 1 April 2019. At commencement date of a lease, a lessee will recognise a liability to make a lease payment (i.e. the lease liability) and an asset representing the right to use the underlying asset during the lease term (i.e. the right-of-use asset). Lessees will be required to separately recognise the interest expense on the lease liability and the depreciation expense on the right-of-use asset.
The Group plans to adopt SB-FRS 116 retrospectively with the cumulative effect of initially applying the standard as an adjustment to the opening retained earnings at the date of initial application, 1 April 2019.

On the adoption of SB-FRS 116, the Group expects to choose, on a lease-by-lease basis, to measure the right-of-use asset at an amount equal to the lease liability, adjusted by the amount of any prepaid or accrued lease payments relating to that lease recognised in the statement of financial position immediately before 1 April 2019.

In addition, the Group plans to elect the following practical expedients:
• not to reassess whether a contract is, or contains a lease at the date of initial application and to apply SB-FRS 116 to all contracts that were previously identified as leases
• to apply the exemption not to recognise right-of-use asset and lease liabilities to leases for which the lease term ends within 12 months as of 1 April 2019
• to apply a single discount rate to a portfolio of leases with reasonably similar characteristics
The Group has performed a preliminary impact assessment based on currently available information and expects that the adoption of SB-FRS 116 will result in the increase in total assets and total liabilities with no significant impact to the profit or loss. The assessment may be subject to changes arising from ongoing analysis until the Group adopts SB-FRS 116 in 2019.

2.3 Basis of consolidation and subsidiary
The consolidated financial statements incorporate the financial statements of NParks and entities (including special purpose entities) controlled by NParks (its subsidiary). Control is achieved when NParks:
• Has power over the investee;
• Is exposed, or has rights, to variable returns from its involvement with the investee; and
• Has the ability to use its power to affect its returns.

In NParks’s separate financial statements, investment in subsidiary is carried at cost less any impairment in net recoverable value that has been recognised in profit or loss.
NParks reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.
Notes to the financial statements
For the financial year ended 31 March 2019

Consolidation of a subsidiary begins when NParks obtains control over the subsidiary and ceases when NParks loses control of the subsidiary. Specifically, income and expense of a subsidiary acquired or disposed of during the year are included in the consolidated statement of comprehensive income from the date NParks gains control until the date when NParks ceases to control the subsidiary.

Where necessary, adjustments are made to the financial statements of the subsidiary to bring its accounting policies into line with the Group’s accounting policies. The financial statements of the subsidiary used in the preparation of the consolidated financial statements are prepared for the same reporting date as NParks.

All intra-group balances, income and expenses resulting from intra-group transactions and dividends are eliminated in full.

2.4 Financial instruments

(a) Financial assets

Initial recognition and measurement

Financial assets are recognised when, and only when the entity becomes party to the contractual provisions of the instruments.

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at fair value through profit or loss are expensed in profit or loss.

Trade receivables are measured at the amount of consideration to which the Group expects to be entitled in exchange for transferring promised goods or services to a customer, excluding amounts collected on behalf of third party, if the trade receivables do not contain a significant financing component at initial recognition.

Subsequent measurement

Investments in debt instruments

Subsequent measurement of debt instruments depends on the Group’s business model for managing the asset and the contractual cash flow characteristics of the asset.

Amortised cost

Financial assets that are held for the collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. Financial assets are measured at amortised cost using the effective interest method, less impairment. Gains and losses are recognised in profit or loss when the assets are derecognised or impaired, and through amortisation process.

De-recognition

A financial asset is de-recognised where the contractual right to receive cash flows from the asset has expired. On derecognition of a financial asset in its entirety, the difference between the carrying amount and the sum of the consideration received and any cumulative gain or loss that had been recognised in other comprehensive income for debt instruments is recognised in profit or loss.

Impairment of financial assets

The Group recognises an allowance for expected credit losses (ECLs) for all debt instruments not held at fair value through profit or loss. ECLs are based on the difference between the contractual cash flows due in accordance with the contract and all the cash flows that the Group expects to receive, discounted at an approximation of the original effective interest rate. The expected cash flows will include cash flows from the sale of collateral held or other credit enhancements that are integral to the contractual terms.

ECLs are recognised in two stages. For credit exposures for which there has not been a significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12-months (a 12-month ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is recognised for credit losses expected over the remaining life of the exposure, irrespective of timing of the default (a lifetime ECL).

For trade receivables, the Group applies a simplified approach in calculating ECLs. Therefore, the Group does not track changes in credit risk, but instead recognises a loss allowance based on lifetime ECLs at each reporting date. The Group has established a provision matrix that is based on its historical credit loss experience, adjusted for forward-looking factors specific to the debtors and the economic environment.

The Group considers a financial asset in default when contractual payments are 90 days past due. However, in certain cases, the Group may also consider a financial asset to be in default when internal or external information indicates that the Group is unlikely to receive the outstanding contractual amounts in full before taking into account any credit enhancements held by the Group. A financial asset is written off when there is no reasonable expectation of recovering the contractual cash flows.

(b) Financial liabilities and equity instruments

Classification as debt or equity

Financial liabilities and equity instruments issued by the Group are classified according to the substance of the contractual arrangements entered into and the definitions of a financial liability and an equity instrument.

Initial recognition and measurement

Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of the Group after deducting all of its liabilities. Equity instruments are recorded at the proceeds received, net of direct issue costs.

Pursuant to the Finance Circular Minute (“FCM”) No. 26/2008 on Capital Management Framework (“CMF”), equity injection from the Government is recorded as share capital.
Notes to the financial statements
For the financial year ended 31 March 2019

2.5 Leases

The Group as lessor

Rental income from operating leases is recognised on a straight-line basis over the term of the relevant lease unless another systematic basis is more representative of the time pattern in which the economic benefits from the lease are consumed. Rental income is recognised as an expense in the period in which it is incurred.

In the event that lease incentives are received to enter into operating leases, such incentives are recognised as a liability. The aggregate benefit of incentives is recognised as a reduction of rental expense on a straight-line basis, except where another systematic basis is more representative of the time pattern in which the economic benefits from the lease are consumed.

The Group as lessee

Rents payable under operating leases are charged to profit or loss on a straight-line basis over the term of the relevant lease unless another systematic basis is more representative of the time pattern in which the economic benefits from the leased asset are consumed. Contingent rentals arising under operating leases are recognised as an expense in the period in which they are incurred.

In the event that lease incentives are received to enter into operating leases, such incentives are recognised as a liability. The aggregate benefit of incentives is recognised as a reduction of rental expense on a straight-line basis, except where another systematic basis is more representative of the time pattern in which the economic benefits from the leased asset are consumed.

2.6 Property, plant and equipment

All items of property, plant and equipment are initially recorded at cost. Subsequent to recognition, property, plant and equipment are measured at cost less accumulated depreciation and any accumulated impairment losses.

Depreciation is computed on a straight-line basis over the estimated useful lives of the assets as follows:

<table>
<thead>
<tr>
<th>Asset</th>
<th>Over the lease periods of 87 to 99 years</th>
<th>20 years</th>
<th>5 to 10 years</th>
<th>7 years</th>
<th>8 to 10 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings, structures, capital and other improvements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office equipment, furniture and fittings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laboratory and gardening equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Construction-in-progress included in property, plant and equipment is not depreciated as these assets are not available for use. These are carried at cost, less any recognised impairment loss.

The carrying amount of property, plants and equipment are reviewed for impairment when events or changes in circumstances indicate that the carrying amount may not be recoverable.

The estimated useful lives, residual values and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimates accounted for on a prospective basis.

An item of property, plant and equipment is de-recognised upon disposal or when no future economic benefits are expected from its use or disposal. The gain or loss arising on disposal or retirement of an item of property, plant and equipment is determined as the difference between the sales proceeds and the carrying amounts of the asset and is recognised in profit or loss.

2.7 Impairment of non-financial assets

The Group assesses at each reporting date whether there is an indication that an asset may be impaired. If any indication exists, or when an annual impairment testing for an asset is required, the Group makes an estimate of the asset’s recoverable amount.

An asset’s recoverable amount is the higher of an asset’s or cash-generating unit’s fair value less costs of disposal and its value in use and is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. Where the carrying amount of an asset or cash-generating unit exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

Impairment losses are recognised in profit or loss, except for assets that are previously revalued where the revaluation was taken to other comprehensive income. In this case, the impairment is also recognised in other comprehensive income up to the amount of any previous revaluation.

A previously recognised impairment loss is reversed only if there has been a change in the estimates used to determine the asset’s recoverable amount since the last impairment loss was recognised. If that is the case, the carrying amount of the asset is increased to its recoverable amount. That increase cannot exceed the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognised previously. Such reversal is recognised in profit or loss unless the asset is measured at revalued amount, in which case the reversal is treated as a revaluation increase. Impairment losses relating to goodwill cannot be reversed in future periods.
Notes to the financial statements
For the financial year ended 31 March 2019

2.8 Provisions

Provisions are recognised when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that the Group will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation.

The amount recognised as a provision is the best estimate of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. Where a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of those cash flows. If it is no longer probable that an outflow of economic resources will be required to settle the obligation, the provision is reversed. If the effect of the time value of money is material provisions and discounted using a current pre-tax rate that reflects, where appropriate, the risk specific to the liability when discounting is used, the increase in the provision due to the passage of time is recognised as a finance cost.

2.9 Government grants

Government grants are not recognised until there is reasonable assurance that the Group will comply with the conditions attaching to them and the grants will be received. Government grants whose primary condition is that the Group should purchase, construct or otherwise acquire non-current assets are recognised as deferred capital grant in the statement of financial position and transferred to income or expenditure on a systematic and rational basis over the useful lives of the related assets. This treatment also applies to assets transferred from other government organisations and other donated assets.

Other government grants are recognised as income over the periods necessary to match them with the costs for which they are intended to compensate, on a systematic basis. Government grants that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Group with no future related costs are recognised in profit or loss in the period in which they become receivable.

The value of land at the Singapore Botanic Gardens and the Fort Canning Park that vested in NParks when it was established in June 1990 was taken to the deferred capital grants account. The value of all other assets net of liabilities transferred from the former Parks and Recreation Department of Ministry of National Development (PRD) to NParks in June 1990 and July 1996 amounting to $4,528,275 was taken to the capital account.

2.10 Trust and agency funds

Trust and agency funds are set up to account for funds held in trust where NParks is not the owner and beneficiary of the funds received from the Government and other organisations. The receipts and expenditure in respect of agency funds are taken directly to the funds accounts and the net assets relating to the funds are shown as a separate line item in the statement of financial position. Trust and agency funds are accounted for on the accrual basis.

NParks administers the funds on behalf of the holders of these funds. Upon dissolution of these funds, the remaining moneys in these funds shall be returned to the owners of the funds.

2.11 Revenue recognition

Revenue is measured based on the consideration to which the Group expects to be entitled in exchange for transferring promised goods or services to a customer, excluding amount collected on behalf of third parties.

Revenue is recognised when the Group satisfies a performance obligation by transferring a promised good or service to the customer, which is when the customer obtains control of the good or service. A performance obligation may be satisfied at a point in time or over time. The amount of revenue recognised is the amount allocated to the satisfied performance obligation.

**Rental income**

Rental income receivable under operating leases is recognised in profit or loss on a straight-line basis over the term of the lease. Lease incentives granted are recognised as an integral part of the total rental income, over the term of the lease.

**Admission charges**

Admission charges in relation to the National Orchid Garden are recognised at a point in time upon the sale of admission tickets. For event admission tickets which are sold in advance, revenue is recognised on the date of event.

**Agency fees**

Agency fees are recognised over the period in which the services are completed.

**Plan fees**

Plan fees are recognised at a point in time when the services have been performed and rendered.

**Interest income**

Interest income is accrued on a time basis, by reference to the principal outstanding and at the effective interest rate applicable.

**Course fees**

Course fees are recognised over the duration of the course.

**Carpark income**

Carpark income is recognised at a point in time when transacted.

**Miscellaneous income**

Miscellaneous income comprising income derived from consultancy fees, sale of publications, souvenirs and orchid plantlets, and park usage and barbeque permit fees are recognised at a point in time in which they are earned. Liquidated damages are recognised as income when the right to claim such liquidated damages from contractors are established. Compensation collected from contractors whose work resulted in damage to trees and plants are recognised upon issuance of the notice of offence.
2.12 Retirement benefits costs
Payments to defined contribution plans are charged as an expense when employees have rendered the services entitling them to the contributions. Payments made to state-managed retirement benefit schemes, such as the Singapore Central Provident Fund, are dealt with as payments to defined contribution plans where the Group’s obligations under the plans are equivalent to those arising in a defined contribution retirement benefit plan.

Defined benefit obligations due to pensionable officers are recognised in the statement of financial position in accordance with the Pensions Act (Cap. 225, 2004 Revised Edition). Provision for pension costs for eligible retired employees is estimated by management. For pension costs, the cost of providing benefits is determined using the projected unit credit method. Remeasurement, comprising actuarial gains and losses is reflected immediately in the statement of financial position with a charge or credit recognised in other comprehensive income in the period in which they occur.

Remeasurement recognised in other comprehensive income is reflected immediately in accumulated surplus and will not be reclassified to income or expenditure. Net interest is calculated by applying the discount rate at the beginning of the period to the net defined benefit liability or asset. Defined benefit costs are categorised as follows:

- Service cost (including current and past service cost);
- Net interest expense or income; and
- Remeasurement.

For all active members of the scheme, the “projected accrual benefit” is based on the scheme’s accrual formula and upon service as of the valuation date, but using the employee’s scheme salary, projected to the age at which the employee is assumed to leave active service. For inactive members, it is the total benefit. The defined benefit obligation/project benefit obligation/plan liability is the discounted present value of the “projected accrued benefits”. The service cost is the corresponding value of benefits earned by active members over the year as a result of one more year of service.

2.13 Employee leave entitlement
Employee entitlements to annual leave are recognised when they are accrued to employees. A provision is made for the estimated liability for annual leave as a result of services rendered by employees up to the end of the reporting period.

2.14 Contribution to consolidated fund
Under Section 13(1)(e) and the First Schedule of the Singapore Income Tax Act, Chapter 134, the income of the Group is exempt from income tax.

In lieu of income tax, NParks is required to make contribution to the Government Consolidated Fund in accordance with the Statutory Corporations (Contributions to Consolidated Fund) Act, Chapter 319A. The provision is based on the guidelines specified by the Ministry of Finance and is computed based on the net surplus of the Group for each of the financial year at the prevailing corporate tax rate for the Year of Assessment. Contribution to consolidated fund is provided for on an accrual basis.

2.15 Cash and cash equivalents
Cash and cash equivalents comprise cash at bank and deposits placed with the Accountant-General’s Department (“AGD”) that are readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value.

2.16 Deferred revenue
Income from rental and lease premium received in advance are stated at initial amount less accumulated amortisation. Amortisation is calculated on a straight-line basis to reduce the initial amount over the lease term and is recognised in profit or loss.

Income from plan fees received in advance is stated at initial amount collected and is recognised in profit or loss when services are performed and rendered.

2.17 Contingencies
A contingent liability is:

(a) a possible obligation that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Group; or

(b) a present obligation that arises from past events but is not recognised because:

(i) It is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation; or

(ii) The amount of the obligation cannot be measured with sufficient reliability.

A contingent asset is a possible asset that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Group.

Contingent liabilities and assets are not recognised on the statement of financial position of the Group.

2.18 Funding for government projects
Government projects funded using NParks’s accumulated surplus are considered distribution to owners. Accordingly, the amount are recognised directly in the statement of changes in equity.

3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY
The preparation of the Group’s consolidated financial statements requires management to make judgements, estimates and assumptions that affect the reported amounts of the revenues, expenses, assets and liabilities, and the disclosure of contingent liabilities at the end of reporting period. Uncertainty about these assumptions and estimates could result in outcomes that could require a material adjustment to the carrying amount of the asset or liability affected in the future periods. Management is of the opinion that there is no significant judgement made in applying accounting policies and no estimation uncertainty that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial period.
4. FINANCIAL INSTRUMENTS, FINANCIAL RISKS AND CAPITAL RISKS MANAGEMENT

(a) Categories of financial instruments

The following table sets out the financial instruments as at the end of the reporting period:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>260,947,766</td>
<td>259,682,009</td>
<td>260,688,545</td>
<td>259,444,803</td>
</tr>
<tr>
<td>Trade receivables (Note 7)</td>
<td>3,908,256</td>
<td>2,985,871</td>
<td>3,908,256</td>
<td>2,981,491</td>
</tr>
<tr>
<td>Other receivables (Note 8)</td>
<td>6,224,433</td>
<td>4,167,660</td>
<td>6,237,136</td>
<td>4,190,963</td>
</tr>
<tr>
<td><strong>Total financial assets at</strong></td>
<td><strong>271,120,455</strong></td>
<td><strong>266,835,540</strong></td>
<td><strong>270,833,937</strong></td>
<td><strong>266,617,257</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade and other payables (Note 12)</td>
<td>57,800,149</td>
<td>60,418,819</td>
<td>57,795,359</td>
<td>60,413,739</td>
</tr>
</tbody>
</table>

Fair value of financial assets and financial liabilities that are not carried at fair value and whose carrying amounts are reasonable approximation of fair value.

The carrying amounts of cash and cash equivalents, trade receivables (current), other receivables and trade and other payables, approximate their respective fair values due to the relatively short-term maturity of these financial instruments.

The carrying amount of long-term trade receivables approximates fair value as the interest rate approximates the market level at the end of the reporting period.

(b) Financial risk management policies and objectives

The Group is exposed to financial risk arising from its operations which include interest rate risk, credit risk and liquidity risk. The Group has written policies and guidelines, which set out its general risk management framework as discussed below.

There has been no change to the Group’s exposure to these financial risks or the manner in which it manages and measures the risk.

(i) Interest rate risk management

The Group’s exposure to changes in interest rates relates primarily to fixed deposits and non-current trade receivables. Surplus funds in NParks are placed with Accountant-General’s Department ("AGD") as disclosed in Note 6. Other than funds placed with AGD and non-current trade receivable with fixed interest rate as disclosed in Note 7, there are no other significant interest-bearing assets or interest-bearing liabilities as at the end of the reporting period.

(ii) Credit risk management

Credit risk is the risk of loss that may arise on outstanding financial instruments should a counterparty defaults on its obligations.

The Group's credit risk is primarily attributable to its trade and other receivables. For cash at bank, the Group minimises credit risk by dealing exclusively with high credit rating counterparties.

The Group's objective is to minimise losses incurred due to increased credit risk exposure. The Group trades only with recognised and creditworthy third parties. It is the Group's policy that all customers who wish to trade on credit terms are subject to credit verification procedures. In addition, receivable balances are monitored on an ongoing basis with the result that the Company's exposure to bad debts is not significant.

The Group considers the probability of default upon initial recognition of asset and whether there has been a significant increase in credit risk on an ongoing basis throughout each reporting period.

The Group has determined the default event on a financial asset to be when the counterparty fails to make contractual payments, within 90 days when they fall due, which are derived based on the Company’s historical information.

To assess whether there is a significant increase in credit risk, the Group compares the risk of a default occurring on the asset as at reporting date with the risk of default as at the date of initial recognition. The Group considers available reasonable and supportive forward-looking information which includes the following indicator:

- Actual or expected adverse changes in business, financial or economic conditions that are expected to cause a significant change to the debtor’s ability to meet its obligation

Regardless of the analysis above, a significant increase in credit risk is presumed if a debtor is more than 30 days past due in making contractual payment.

The Group determined that its financial assets are credit-impaired when:

- There is significant difficulty of the debtors
- A breach of contract, such as a default or past due event
- It is becoming probable that the debtor will enter bankruptcy or other financial reorganisation

Financial assets are written off when there is evidence indicating that the debtor is in severe financial difficulty and the debtor has no realistic prospect of recovery. Where receivables have been written off, the Group continues to engage enforcement activity to attempt to recover the receivable due. Where recoveries are made, these are recognised in profit or loss.

The following are credit risk management practices and quantitative and qualitative information about amounts arising from expected credit losses for each class of financial assets.

Interest rate sensitivity analysis has not been presented as management does not expect any reasonable possible changes in interest rates to have a significant impact on the Group's operations and cash flows.
Trade receivables
As at the end of the reporting period, the Group has recorded an impairment loss allowance of $1,150,000 (2018: $1,380,000) on its trade receivables. An agreement was made on 8 June 2009 between the Group and one of its debtors for the total principal sum to be repaid over 10 years starting from 1 November 2014 with an interest of 2% charge annually on the outstanding balance. No additional allowance has been made on the remaining principal amount of $815,952 (FY2017/18: $1,017,916) that is past due as management believes that there has not been significant change in credit quality as the debtor has been making repayments based on the agreement.

For the remaining trade receivables, the Group has applied the simplified approach in SB-FRS 109 to measure the allowance of lifetime ECL. The Group determines the ECL by using a provision matrix, estimated based on historical credit loss experience based on the past due status of the debtors, adjusted and apportioned to reflect current conditions and estimates of future economic conditions. Based on the Group’s assessment, there is no additional loss allowance provision made as at 31 March 2019.

Other receivables
The Group has credit policies and procedures in place to minimise and mitigate its credit risk exposure. The Group assessed the latest performance and financial position of the other counterparties, adjusted for the future outlook of the industry in which the counterparties operate in, and concluded that there has been no significant increase in the credit risk since initial recognition of the financial assets. Accordingly, the Group measured the impairment allowance using 12-month ECL and determine that the ECL is insignificant.

Excessive risk concentration
Except for receivables due from MND and other government agencies, there is no significant concentration of credit risk.

(iii) Liquidity risk management
Liquidity risk is the risk that the Group and the Board will not be able to meet their financial obligations as and when they fall due.

The Group and the Board receive its funds from the Government of Singapore which are drawn down on a regular basis to meet its funding requirements. All excess cash from the Group’s bank accounts are aggregated and centrally managed by the AGD on a daily basis.

Analysis of financial instruments by remaining contractual maturities
The table below summarises the maturity profile of the Group’s and NParks’s financial assets and liabilities at the end of the reporting period based on contractual undiscounted repayment obligations.
Notes to the financial statements
For the financial year ended 31 March 2019

2018/2019
$  

<table>
<thead>
<tr>
<th>Less than one year</th>
<th>One to five years</th>
<th>Over five years</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPARKS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>260,688,545</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Trade receivables</td>
<td>3,068,256</td>
<td>959,400</td>
<td>-</td>
</tr>
<tr>
<td>Other receivables</td>
<td>6,237,136</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total undiscounted financial assets</td>
<td>269,993,937</td>
<td>959,400</td>
<td>-</td>
</tr>
<tr>
<td>Financial liabilities:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade and other payables</td>
<td>57,795,359</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total undiscounted financial liabilities</td>
<td>57,795,359</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total net undiscounted financial assets</td>
<td>212,198,578</td>
<td>959,400</td>
<td>-</td>
</tr>
</tbody>
</table>

2017/2018
$  

<table>
<thead>
<tr>
<th>Less than one year</th>
<th>One to five years</th>
<th>Over five years</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPARKS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>259,444,803</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Trade receivables</td>
<td>1,973,491</td>
<td>999,200</td>
<td>175,960</td>
</tr>
<tr>
<td>Other receivables</td>
<td>4,190,963</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total undiscounted financial assets</td>
<td>265,609,257</td>
<td>999,200</td>
<td>175,960</td>
</tr>
<tr>
<td>Financial liabilities:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade and other payables</td>
<td>60,413,739</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total undiscounted financial liabilities</td>
<td>60,413,739</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total net undiscounted financial assets</td>
<td>205,195,518</td>
<td>999,200</td>
<td>175,960</td>
</tr>
</tbody>
</table>

(c) Capital risk management policies and objectives
The Group manages its capital to ensure that it will be able to continue as a going concern while fulfilling its objective as a statutory board.

The capital structure of the Group consists of accumulated surplus, capital account, sinking fund and share capital. The overall strategy of the Group remains unchanged from the previous financial year.

5. RELATED PARTY TRANSACTIONS

Some of the Group’s transactions and arrangements are with related parties and the effect of these on the basis determined between the parties is reflected in these financial statements. The balances are unsecured, interest-free and repayable on demand unless otherwise stated.

The Group and NParks entered into the following significant transactions with its parent Ministry, MND, and other related parties during the year, which are reimbursable in full:

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>MND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revenue collected on behalf</td>
<td>31,115,919</td>
<td>33,496,785</td>
</tr>
<tr>
<td>Development expenditure paid on behalf</td>
<td>-</td>
<td>1,766,154</td>
</tr>
<tr>
<td>- Gardens by the Bay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Other state projects</td>
<td>140,946,136</td>
<td>134,139,517</td>
</tr>
<tr>
<td>Other Ministries and Statutory Boards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expenses paid on behalf of other statutory boards</td>
<td>9,670,614</td>
<td>15,880,742</td>
</tr>
<tr>
<td>Garden City Fund</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expenses paid on behalf</td>
<td>4,739,700</td>
<td>2,592,004</td>
</tr>
<tr>
<td>Gardens by the Bay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expenses paid on behalf</td>
<td>69,448</td>
<td>159,777</td>
</tr>
</tbody>
</table>

Compensation of key management personnel

The remuneration of key management personnel during the financial year were as follows:

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and other short-term employee benefits</td>
<td>2,026,526</td>
<td>1,936,956</td>
</tr>
<tr>
<td>Post-employment benefits</td>
<td>57,248</td>
<td>58,538</td>
</tr>
</tbody>
</table>
6. CASH AND CASH EQUIVALENTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash at bank</td>
<td>299,221</td>
<td>237,206</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Deposits with AGD</td>
<td>260,688,545</td>
<td>259,444,803</td>
<td>260,688,545</td>
<td>259,444,803</td>
</tr>
<tr>
<td></td>
<td>260,987,766</td>
<td>259,682,009</td>
<td>260,688,545</td>
<td>259,444,803</td>
</tr>
</tbody>
</table>

(i) With effect from financial year 2009/2010, Statutory Boards were to participate in the Centralised Liquidity Management by the Accountant General’s Department (“AGD”) under AGD Circular 4/2009. Deposits are centrally managed by AGD, available to the statutory board upon request and earns interest at the average rate of 1.76% (2017/2018: 1.23%) per annum.

7. TRADE RECEIVABLES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not past due and not impaired</td>
<td>3,022,322</td>
<td>1,937,218</td>
<td>3,022,322</td>
<td>1,932,838</td>
</tr>
<tr>
<td>Past due but not impaired</td>
<td>885,934</td>
<td>1,048,653</td>
<td>885,934</td>
<td>1,048,653</td>
</tr>
<tr>
<td>&lt; 1 months</td>
<td>13,480</td>
<td>21,006</td>
<td>13,480</td>
<td>21,006</td>
</tr>
<tr>
<td>1 months to 4 months</td>
<td>20,502</td>
<td>9,731</td>
<td>20,502</td>
<td>9,731</td>
</tr>
<tr>
<td>&gt; 4 months</td>
<td>851,952</td>
<td>1,017,916</td>
<td>851,952</td>
<td>1,017,916</td>
</tr>
<tr>
<td>Impaired receivables</td>
<td>1,150,000</td>
<td>1,380,000</td>
<td>1,150,000</td>
<td>1,380,000</td>
</tr>
<tr>
<td>Less: Allowance for impairment</td>
<td>(1,150,000)</td>
<td>(1,380,000)</td>
<td>(1,150,000)</td>
<td>(1,380,000)</td>
</tr>
<tr>
<td>Total</td>
<td>3,908,256</td>
<td>2,985,871</td>
<td>3,908,256</td>
<td>2,981,491</td>
</tr>
</tbody>
</table>

Represented by:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Current portion</td>
<td>3,068,256</td>
<td>1,977,871</td>
<td>3,068,256</td>
<td>1,973,491</td>
</tr>
<tr>
<td>Non-current portion</td>
<td>840,000</td>
<td>1,008,000</td>
<td>840,000</td>
<td>1,008,000</td>
</tr>
<tr>
<td>Total</td>
<td>3,908,256</td>
<td>2,985,871</td>
<td>3,908,256</td>
<td>2,981,491</td>
</tr>
</tbody>
</table>

The credit period on rendering of services is 30 days (2017/2018: 30 days). Other than non-current receivables which interest is charged at 2%, no interest is charged on the trade receivables and no collateral is held by the Group over the trade receivables.

(i) An agreement was made on 8 June 2009 between the Group and the debtor for the total principal sum to be repaid over 10 years starting from 1 November 2014 with an interest of 2% charge annually on the outstanding balance. No allowance has been made on these receivables as management believes that there has not been significant change in credit quality as the debtor has been making repayments based on the agreement.

Receivables that are impaired

The Group’s trade receivables that are impaired at the end of the reporting period and the movement of the allowance accounts used to record the impairment are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks 2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade receivables</td>
<td>2,388,000</td>
</tr>
<tr>
<td>Less: Allowance for impairment</td>
<td>(1,380,000)</td>
</tr>
<tr>
<td></td>
<td>1,008,000</td>
</tr>
</tbody>
</table>

Movement in allowance accounts:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 1 April 2017</td>
<td>1,610,000</td>
</tr>
<tr>
<td>Write-back</td>
<td>(230,000)</td>
</tr>
<tr>
<td>At 31 March 2018</td>
<td>1,380,000</td>
</tr>
</tbody>
</table>

Trade receivables that are individually determined to be impaired at the end of the reporting period relate to a debtor that is in significant financial difficulties and has defaulted on payments. These receivables are not secured by any collateral or credit enhancements.

Expected credit losses

The movement in allowance for expected credit losses of trade receivables computed based on lifetime ECL are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks 2018/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement in allowance accounts:</td>
<td></td>
</tr>
<tr>
<td>At 1 April 2018</td>
<td>1,380,000</td>
</tr>
<tr>
<td>Write-back</td>
<td>(230,000)</td>
</tr>
<tr>
<td>At 31 March 2019</td>
<td>1,150,000</td>
</tr>
</tbody>
</table>
8. OTHER RECEIVABLES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Other receivables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MND</td>
<td>1,382,775</td>
<td>1,467,445</td>
<td>1,382,775</td>
<td>1,467,445</td>
</tr>
<tr>
<td>Garden City Fund</td>
<td>1,419,034</td>
<td>360,755</td>
<td>1,419,034</td>
<td>360,755</td>
</tr>
<tr>
<td>Gardens by the Bay</td>
<td>8,375</td>
<td>12,295</td>
<td>8,375</td>
<td>12,295</td>
</tr>
<tr>
<td>– Other receivables</td>
<td>497,811</td>
<td>603,934</td>
<td>510,764</td>
<td>627,487</td>
</tr>
<tr>
<td>Interest receivable</td>
<td>2,634,858</td>
<td>1,476,261</td>
<td>2,634,858</td>
<td>1,476,261</td>
</tr>
<tr>
<td>Deposits</td>
<td>281,580</td>
<td>246,970</td>
<td>281,330</td>
<td>246,720</td>
</tr>
<tr>
<td>Total</td>
<td>6,224,433</td>
<td>4,167,660</td>
<td>6,237,136</td>
<td>4,190,963</td>
</tr>
</tbody>
</table>

Notes
(i) Receivables from MND comprise mainly direct development and operating grants receivable by NParks. These amounts are unsecured and interest-free, and are repayable on demand.
(ii) Non-trade amounts due from Garden City Fund and Gardens by the Bay are unsecured and interest-free, and are repayable on demand.

9. INVESTMENT IN SUBSIDIARY

<table>
<thead>
<tr>
<th>Name of subsidiary</th>
<th>Principal activities</th>
<th>Place of Incorporation and business</th>
<th>Proportion of ownership interest and voting power held</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singapore Garden City Pte. Ltd.(i)</td>
<td>Landscape planning, advisory services and business consulting services</td>
<td>Singapore</td>
<td>100/100</td>
</tr>
</tbody>
</table>

(i) Audited by Kong, Lim & Partners LLP.

10. PROPERTY, PLANT AND EQUIPMENT

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>Leasehold land</th>
<th>Building, structures, capital and other improvements</th>
<th>Office equipment, furniture and fittings</th>
<th>Motor vehicles</th>
<th>Laboratory and gardening equipment</th>
<th>Construction-in-progress</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018/2019</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>2017/2018</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

Notes
(i) Receivables from MND comprise mainly direct development and operating grants receivable by NParks. These amounts are unsecured and interest-free, and are repayable on demand.
(ii) Non-trade amounts due from Garden City Fund and Gardens by the Bay are unsecured and interest-free, and are repayable on demand.
11. GOVERNMENT GRANTS RECEIVED IN ADVANCE (RECEIVABLE)

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>Operating grants$</th>
<th>Capital grants</th>
<th>Development grants$</th>
<th>Other grants$</th>
<th>Total $</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 1 April 2017</td>
<td>8,147,158</td>
<td>519,556</td>
<td>1,530,807</td>
<td>(2,171,923)</td>
<td>8,025,598</td>
</tr>
<tr>
<td>Grants received during the financial year</td>
<td>271,741,546</td>
<td>1,645,044</td>
<td>135,568,636</td>
<td>5,807,261</td>
<td>414,762,487</td>
</tr>
<tr>
<td>Grants receivable</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>(176,155)</td>
<td>(176,155)</td>
</tr>
<tr>
<td>Interest income (adjusted) earned</td>
<td>–</td>
<td>(7,973)</td>
<td>18,229</td>
<td>–</td>
<td>10,256</td>
</tr>
<tr>
<td>Transfer to deferred capital grants (Note 16)</td>
<td>(11,006,349)</td>
<td>(1,945,510)</td>
<td>(75,274)</td>
<td>(21,851)</td>
<td>(13,048,984)</td>
</tr>
<tr>
<td>Unutilised grants returned</td>
<td>(104,156)</td>
<td>–</td>
<td>–</td>
<td>(85,579)</td>
<td>(176,155)</td>
</tr>
<tr>
<td>Payment on behalf</td>
<td>–</td>
<td>–</td>
<td>(135,905,671)</td>
<td>–</td>
<td>(135,905,671)</td>
</tr>
<tr>
<td>Transfer to statement of comprehensive income</td>
<td>(256,546,780)</td>
<td>–</td>
<td>–</td>
<td>(2,868,693)</td>
<td>(259,415,473)</td>
</tr>
<tr>
<td>At 31 March 2018 and 1 April 2018</td>
<td>12,231,419</td>
<td>211,117</td>
<td>1,136,727</td>
<td>483,068</td>
<td>14,062,331</td>
</tr>
<tr>
<td>Grants received during the financial year</td>
<td>302,363,966</td>
<td>3,927,940</td>
<td>140,223,666</td>
<td>3,411,777</td>
<td>449,927,349</td>
</tr>
<tr>
<td>Grants receivable</td>
<td>–</td>
<td>(211,124)</td>
<td>(3,678,391)</td>
<td>(51,579)</td>
<td>(3,941,094)</td>
</tr>
<tr>
<td>Interest income earned</td>
<td>–</td>
<td>–</td>
<td>18,776</td>
<td>–</td>
<td>18,776</td>
</tr>
<tr>
<td>Transfer to deferred capital grants (Note 16)</td>
<td>(13,834,783)</td>
<td>(3,927,933)</td>
<td>–</td>
<td>–</td>
<td>(17,762,716)</td>
</tr>
<tr>
<td>Unutilised grants returned</td>
<td>(294,155)</td>
<td>–</td>
<td>–</td>
<td>(10,667)</td>
<td>(304,822)</td>
</tr>
<tr>
<td>Payment on behalf</td>
<td>–</td>
<td>(140,946,136)</td>
<td>(493,351)</td>
<td>(141,439,487)</td>
<td></td>
</tr>
<tr>
<td>Transfer to statement of comprehensive income</td>
<td>(288,489,233)</td>
<td>–</td>
<td>–</td>
<td>(3,505,591)</td>
<td>(291,994,824)</td>
</tr>
<tr>
<td>At 31 March 2019</td>
<td>11,977,214</td>
<td>–</td>
<td>(3,245,358)</td>
<td>(166,343)</td>
<td>8,565,513</td>
</tr>
</tbody>
</table>

Notes
(i) Total operating grants received/receivable less transferred to deferred capital grants since establishment are $3,259,985,699 (2017/2018: $2,971,456,516).
(ii) Development grants received from MND for State projects running by NParks on behalf of MND.
(iii) Other grants comprise grants received from other government agencies.

12. TRADE AND OTHER PAYABLES

<table>
<thead>
<tr>
<th>Group</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>NParks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade payables</td>
<td>11,219,970</td>
<td>12,283,292</td>
</tr>
<tr>
<td>Other payables</td>
<td>3,379,320</td>
<td>3,431,099</td>
</tr>
<tr>
<td>– MND (i)</td>
<td>208,580</td>
<td>53,577</td>
</tr>
<tr>
<td>– Garden City Fund (ii)</td>
<td>20,210,851</td>
<td>16,586,721</td>
</tr>
<tr>
<td>– Others</td>
<td>2,721,733</td>
<td>3,181,236</td>
</tr>
<tr>
<td>Rental and other deposits</td>
<td>6,681,919</td>
<td>12,958,497</td>
</tr>
<tr>
<td>Accrual expenses</td>
<td>16,099,709</td>
<td>15,105,633</td>
</tr>
<tr>
<td>Total</td>
<td>60,521,882</td>
<td>63,600,055</td>
</tr>
</tbody>
</table>

(i) Payables to MND comprise primarily state revenue collections received on behalf of the Ministry. The amounts are unsecured and interest-free, and are repayable in cash on demand.
(ii) Non-trade amounts due to Garden City Fund are unsecured and interest-free.

13. PROVISION FOR PENSION COSTS

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>At beginning of the year</td>
<td>3,445,888</td>
<td>3,439,672</td>
</tr>
<tr>
<td>Provision for the year</td>
<td>107,011</td>
<td>126,216</td>
</tr>
<tr>
<td>Payments during the year</td>
<td>(1,136,762)</td>
<td>(120,000)</td>
</tr>
<tr>
<td>At end of the year</td>
<td>2,416,137</td>
<td>3,445,888</td>
</tr>
</tbody>
</table>

Represented by:
Current portion | 120,000 | 1,871,099 |
Non-current portion | 2,296,137 | 1,574,789 |
2,416,137 | 3,445,888

There is currently 1 (2017/2018: 3) employee of NParks who is eligible under this pension schemes other than the Central Provident Fund.
Notes to the financial statements
For the financial year ended 31 March 2019

Amounts recognised in income or expenditure in respect of the defined benefit plan are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest cost</td>
<td>$56,622</td>
<td>$75,451</td>
<td></td>
</tr>
<tr>
<td>Service cost</td>
<td>$50,389</td>
<td>$50,765</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$107,011</td>
<td>$126,216</td>
<td></td>
</tr>
</tbody>
</table>

The principal assumptions used in determining the pension costs were as follows:

<table>
<thead>
<tr>
<th></th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount rate</td>
<td>2.2%</td>
<td>2.2%</td>
</tr>
<tr>
<td>Salary increase rate</td>
<td>3.0%</td>
<td>3.0%</td>
</tr>
</tbody>
</table>

Assumptions regarding future mortality are based on published statistics and mortality tables.

The sensitivity analysis below has been determined based on reasonably possible changes of each significant assumption on the defined benefit obligation as of the end of the reporting period, assuming if all other assumptions were held constant:

<table>
<thead>
<tr>
<th>Change in assumption</th>
<th>Impact on provision for pension costs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Change in assumption</td>
</tr>
<tr>
<td>Discount rate</td>
<td>0.25%</td>
</tr>
<tr>
<td>Salary increase rate</td>
<td>0.25%</td>
</tr>
</tbody>
</table>

14. DEFERRED REVENUE

<table>
<thead>
<tr>
<th></th>
<th>Group</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NParks</td>
<td>2018/2019</td>
<td>2017/2018</td>
</tr>
<tr>
<td>Lease premium received in advance</td>
<td>$1,131,945</td>
<td>$1,215,278</td>
<td>$1,131,945</td>
</tr>
<tr>
<td>Deferred rental income</td>
<td>$2,520,000</td>
<td>$2,688,000</td>
<td>$2,520,000</td>
</tr>
<tr>
<td>Plan fees received in advance</td>
<td>$973,600</td>
<td>$960,400</td>
<td>$973,600</td>
</tr>
<tr>
<td>Other income received in advance</td>
<td>$121,740</td>
<td>$336,429</td>
<td>$121,740</td>
</tr>
<tr>
<td>Total</td>
<td>$4,747,285</td>
<td>$5,200,107</td>
<td>$4,747,285</td>
</tr>
</tbody>
</table>

Represented by:

- Current portion: $2,538,374, $2,746,762, $2,538,374, $2,746,762
- Non-current portion: $2,208,911, $2,453,345, $2,208,911, $2,453,345

The lease premium received in advance represents the unamortised balances of lease premium received in advance from a tenant.

15. CONTRIBUTION TO CONSOLIDATED FUND

With effect from 1 April 2003, NParks is required to make contribution to the Government Consolidated Fund in accordance with the Statutory Corporations (Contributions to Consolidated Fund) Act, Chapter 319A. The provision is based on the guidelines specified by the Ministry of Finance. It is computed based on the net surplus of NParks for each of the financial year at the prevailing corporate tax rate for the Year of Assessment. Contribution to consolidated fund is provided for on an accrual basis.

16. DEFERRED CAPITAL GRANTS

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance at the beginning of the financial year</td>
<td>$111,467,742</td>
<td>$109,408,827</td>
<td></td>
</tr>
<tr>
<td>Amounts transferred from Government grants (Note 11)</td>
<td>$17,762,716</td>
<td>$13,048,984</td>
<td></td>
</tr>
<tr>
<td>Amounts transferred from Garden City Fund</td>
<td>$2,954,722</td>
<td>$168,733</td>
<td></td>
</tr>
<tr>
<td>Less: Amortisation of deferred capital grants</td>
<td>$132,185,180</td>
<td>$122,626,544</td>
<td></td>
</tr>
<tr>
<td>Balance at the end of the financial year</td>
<td>$121,182,419</td>
<td>$111,467,742</td>
<td></td>
</tr>
</tbody>
</table>

Total capital grants received (excluding donations-in-kind transferred from Garden City Fund) and utilised since establishment | $278,125,932 | $260,363,216 |
Notes to the financial statements
For the financial year ended 31 March 2019

17. CAPITAL ACCOUNT
Capital account represents the value of assets net of liabilities (excluding the leasehold land acquired via Government capital grants) transferred from the former Parks and Recreation Department (“PRD”) of MND when NParks was established in June 1990 and when PRD merged with NParks in July 1996.

18. SHARE CAPITAL

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of shares</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issued and fully paid up:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At the beginning of the year</td>
<td>2,958,095</td>
<td>1,032,800</td>
<td>2,958,095</td>
<td>1,032,800</td>
</tr>
<tr>
<td>Equity injection(1)</td>
<td>3,478,143</td>
<td>1,925,295</td>
<td>3,478,143</td>
<td>1,925,295</td>
</tr>
<tr>
<td>At the end of the year</td>
<td>6,436,238</td>
<td>2,958,095</td>
<td>6,436,238</td>
<td>2,958,095</td>
</tr>
</tbody>
</table>

(1) Injection of capital is part of the Capital Management Framework for Statutory Boards under Finance Circular Minute M26/2008. The shares have been fully paid and are held by the Minister for Finance, a body corporate incorporated by the Minister for Finance (Incorporation) Act (Chapter 183). The holder of these shares, which has no par value, is entitled to receive dividends.

19. NET ASSETS OF GARDEN CITY FUND
National Parks Board (“NParks”) is the trustee of Garden City Fund (“GCF”). GCF is managed and administered by the Garden City Fund Management Committee, comprising staff from NParks and members of the public appointed by NParks, in accordance with the provisions of the Garden City Fund Trust Deed dated 10 March 2016 (the “Deed”).

The GCF comprises the Garden City Endowment Fund (“GCEF”) and the Garden City Non-Endowment Fund (“GCNEF”). The GCNEF comprises all moneys transferred from the specific funds of NParks upon the formation of the Garden City Fund on 1 July 2002 and all other contributions to the GCNEF. There has been no contribution to the GCEF since establishment.

The GCNEF and the income from the GCEF will be used to further the objectives of the Garden City Fund.

The objectives of GCF are exclusively to enhance the enjoyment of the Garden City, for amenities and special features at the national parks, nature reserves and green areas in Singapore and also for community activities and programmes that promote awareness of nature, art and culture, conservation, research and education and, through involving the citizens to enhance ownership of the Garden City, facilitating a sense of rootedness to the nation.

Upon dissolution of the Garden City Fund, the remaining moneys in the fund shall be donated to charitable organisations which have been designated as Institutions of a Public Character under the Income Tax Act (Chapter 134) and registered under the Charities Act (Chapter 37).

GCF’ accounts are prepared in accordance with Financial Reporting Standards in Singapore (“FRS”).

The following financial information represents GCNEF. There has been no contribution to the GCEF since establishment.

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Income:</td>
<td></td>
</tr>
<tr>
<td>Donations</td>
<td>9,185,631</td>
</tr>
<tr>
<td>Sales of publications/souvenirs/merchandise</td>
<td>89,269</td>
</tr>
<tr>
<td>Course/tour fees</td>
<td>105,735</td>
</tr>
<tr>
<td>Interest income</td>
<td>228,546</td>
</tr>
<tr>
<td>Other income</td>
<td>36,179</td>
</tr>
<tr>
<td></td>
<td>9,645,360</td>
</tr>
<tr>
<td>Amounts disbursed for:</td>
<td></td>
</tr>
<tr>
<td>Costs of charitable activities:</td>
<td></td>
</tr>
<tr>
<td>Conservation projects</td>
<td>125,664</td>
</tr>
<tr>
<td>Enhancements of parks, gardens and facilities</td>
<td>5,301,839</td>
</tr>
<tr>
<td>Outreach, education and research programmes</td>
<td>3,602,314</td>
</tr>
<tr>
<td>Publication</td>
<td>21,922</td>
</tr>
<tr>
<td>Depreciation of property, plant and equipment</td>
<td>80,227</td>
</tr>
<tr>
<td>Loss on disposal of plant and equipment</td>
<td>–</td>
</tr>
<tr>
<td>Administrative costs</td>
<td>31,783</td>
</tr>
<tr>
<td></td>
<td>9,163,749</td>
</tr>
<tr>
<td>Surplus/(Deficit) for the year</td>
<td>481,611</td>
</tr>
<tr>
<td>Surplus/(Deficit) for the year</td>
<td>481,611</td>
</tr>
<tr>
<td>Accumulated fund at beginning of the year</td>
<td>9,675,357</td>
</tr>
<tr>
<td>Accumulated fund at end of the year</td>
<td>10,156,968</td>
</tr>
</tbody>
</table>
# Notes to the financial statements

For the financial year ended 31 March 2019

## 20. NET ASSETS OF NATIONAL PRODUCTIVITY FUND

NParks also administers the following fund on behalf of the Productivity Fund Administration Board.

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Represented by:</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$23,506,739</td>
<td>$23,236,516</td>
</tr>
<tr>
<td>Other receivables</td>
<td>$441,308</td>
<td>$80,270</td>
</tr>
<tr>
<td>Non-current asset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant and equipment</td>
<td>$947,709</td>
<td>$320,653</td>
</tr>
<tr>
<td>Current liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade payables</td>
<td>$184,822</td>
<td>$106,123</td>
</tr>
<tr>
<td>Other payables</td>
<td>$1,770,322</td>
<td>$883,495</td>
</tr>
<tr>
<td>Deferred donations</td>
<td>$12,783,644</td>
<td>$12,972,464</td>
</tr>
<tr>
<td>Net assets</td>
<td>$14,738,788</td>
<td>$13,962,082</td>
</tr>
</tbody>
</table>

## 21. OPERATING INCOME

<table>
<thead>
<tr>
<th>Group and NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Represented by:</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Cash and bank balances</td>
<td>$168,051</td>
<td>$166,895</td>
</tr>
<tr>
<td>Accruals</td>
<td>$109,998</td>
<td>$79,485</td>
</tr>
</tbody>
</table>

### 21.1. OPERATING INCOME - NParks

<table>
<thead>
<tr>
<th>NParks</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rental income</td>
<td>$9,032,441</td>
<td>$9,732,140</td>
</tr>
<tr>
<td>Admission charges</td>
<td>$3,123,431</td>
<td>$2,139,599</td>
</tr>
<tr>
<td>Plan fees</td>
<td>$2,625,575</td>
<td>$2,428,400</td>
</tr>
<tr>
<td>Course fees</td>
<td>$1,455,664</td>
<td>$1,455,664</td>
</tr>
<tr>
<td>Agency fees</td>
<td>$748,364</td>
<td>$1,514,300</td>
</tr>
<tr>
<td>Interest income</td>
<td>$3,915,617</td>
<td>$2,957,252</td>
</tr>
<tr>
<td>Carpark income</td>
<td>$1,003,237</td>
<td>$880,058</td>
</tr>
</tbody>
</table>

Surplus/(deficit) for the year: $30,513

Accumulated fund at beginning of the year: $109,998

Accumulated fund at end of the year: $109,998

### 21.2. OPERATING INCOME - Group

<table>
<thead>
<tr>
<th>Group</th>
<th>2018/2019</th>
<th>2017/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rental income</td>
<td>$9,032,441</td>
<td>$9,732,140</td>
</tr>
<tr>
<td>Admission charges</td>
<td>$3,123,431</td>
<td>$2,139,599</td>
</tr>
<tr>
<td>Plan fees</td>
<td>$2,625,575</td>
<td>$2,428,400</td>
</tr>
<tr>
<td>Course fees</td>
<td>$1,455,664</td>
<td>$1,455,664</td>
</tr>
<tr>
<td>Agency fees</td>
<td>$748,364</td>
<td>$1,514,300</td>
</tr>
<tr>
<td>Interest income</td>
<td>$3,915,617</td>
<td>$2,957,252</td>
</tr>
<tr>
<td>Carpark income</td>
<td>$1,003,237</td>
<td>$880,058</td>
</tr>
</tbody>
</table>

Surplus/(deficit) for the year: $30,513

Accumulated fund at beginning of the year: $109,998

Accumulated fund at end of the year: $109,998

### Timing of transfer of goods or services (excluding interest income):

- **At a point in time**
  - Rental income: $9,289,746
  - Admission charges: $9,193,049
  - Plan fees: $12,500
  - Course fees: $21,138
  - Agency fees: $86,702
  - Interest income: $385,335

- **Overtime**
  - Rental income: $11,236,469
  - Admission charges: $12,701,488

### Miscellaneous income comprises:

- Liquidated damages: $385,335
- Composition amount: $2,369
- Barbeque permit fees: $403,298
- Park usage fees: $212,138
- Consultancy fees: $83,666
- Tour fees: $42,653
- Events income: $317,222
- Merchandise: $86,702
- Publication and plant sales: $156,410
- Others: $850,079

Accumulated fund at beginning of the year: $79,485

Accumulated fund at end of the year: $9,675,357
22. STAFF COSTS

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Wages and salaries</td>
<td>$89,041,316</td>
</tr>
<tr>
<td>Contributions to defined contribution plans</td>
<td>$13,834,361</td>
</tr>
<tr>
<td>Pension costs (Note 13)</td>
<td>$107,011</td>
</tr>
<tr>
<td>Other staff benefits</td>
<td>$1,463,352</td>
</tr>
<tr>
<td></td>
<td><strong>$104,446,040</strong></td>
</tr>
</tbody>
</table>

23. DEFICIT FROM OPERATIONS

The following item has been included in arriving at deficit from operations:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Loss on disposal of property, plant and equipment</td>
<td>$275,548</td>
</tr>
</tbody>
</table>

24. FUNDING FOR GOVERNMENT PROJECTS

During the financial year ended 31 March 2019, $902,195 (2017/2018: $7,900,017) was incurred to fund the capital expenditure for government projects, namely, the Kranji Marshes, Jacob Ballas Children Gardens Extension and Eco Link (2017/2018: Kranji Marshes, Jacob Ballas Children Gardens Extension and Gallop House projects).

As these projects were funded using NParks’s accumulated surplus, they are considered distribution to owners. Accordingly, the amounts are recognised directly in the statement of changes in equity.

25. OPERATING LEASES ARRANGEMENTS

As lessee

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Minimum lease payments under operating lease included as an expense</td>
<td>$1,659,168</td>
</tr>
</tbody>
</table>

The future aggregate minimum lease payments under non-cancellable operating leases contracted for at the reporting date but not recognised as liabilities as at 31 March 2019 with related parties are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Within one year</td>
<td>$1,659,168</td>
</tr>
<tr>
<td>In the second to fifth year inclusive</td>
<td>$3,318,336</td>
</tr>
</tbody>
</table>

As lessor

The Group rented out its properties under operating leases. Rental income earned during the year was $9,032,441 (2017/2018: $9,732,140).

The future aggregate minimum lease receivables under non-cancellable operating leases contracted for at the reporting date but not recognised as at 31 March 2019 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
</tr>
<tr>
<td>Within one year</td>
<td>$5,090,952</td>
</tr>
<tr>
<td>In the second to fifth year inclusive</td>
<td>$12,575,968</td>
</tr>
<tr>
<td>After five years</td>
<td>$24,720,000</td>
</tr>
<tr>
<td></td>
<td><strong>$42,386,920</strong></td>
</tr>
</tbody>
</table>

The above amounts exclude operating lease premium received in advance of $1,131,945 (2017/2018: $1,215,278) (Note 14).
26. CAPITAL COMMITMENTS

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
<td>2017/2018</td>
</tr>
<tr>
<td>Contracted but not provided for</td>
<td>$168,225,502</td>
<td>$217,722,500</td>
</tr>
<tr>
<td>Less: Development expenditure on behalf of government</td>
<td>$(150,223,100)</td>
<td>$(192,445,933)</td>
</tr>
<tr>
<td></td>
<td>$18,002,402</td>
<td>$25,276,567</td>
</tr>
</tbody>
</table>

| Authorised but not contracted for | $593,941,228 | $411,574,116 |
| Less: Development expenditure on behalf of government | $(563,239,128) | $(374,559,449) |
|                      | $30,702,100     | $37,014,667     |

NParks is the agent to develop, upgrade, manage and maintain the public parks on behalf of the government. Amount contracted but not provided for mainly work relating to parks development, park connector network and round island route and amount authorised but not contracted for comprise mainly work relating to parks development, park connector network and Jurong Lake Gardens.

27. CONTINGENT LIABILITIES

At the reporting date, there were the following contingent liabilities relating to various claims that have been made against the Group and NParks in respect of third parties damages. These claims have been referred to the insurers for their assessments.

<table>
<thead>
<tr>
<th></th>
<th>Group and NParks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018/2019</td>
<td>2017/2018</td>
</tr>
<tr>
<td>Claims not provided for</td>
<td>$4,400,258</td>
<td>$5,737,936</td>
</tr>
</tbody>
</table>

28. AUTHORISATION OF FINANCIAL STATEMENTS FOR ISSUE

The financial statements for the financial year ended 31 March 2019 were authorised for issue by the members of the Group on 17 July 2019.
