The Demolition of Lower Ngau Tau Kok Estate

Super:	
	Lower Ngau Tau Kok (LNTK) Estate was built in the 1960's Its demolition begins in 2010
Super:	
	2011 School Year Opening Ceremony SKH Kei Hin Primary School
VO (school announcement):	
	The opening ceremony is over please return quietly to your classroom with your class teacher
Girl A:	Are you new?
Girl B:	
	Uh
Teacher:	Chan King Fei take the third seat on this row
Girl B:	
	Sir, Chan Ka Ka is sitting on my chair!
Super:	Spring 2008 St Matthew's Lutheran School LNTK Estate
Subtitle (explanation of the scene):	
Subtitle (explanation of the scene):	(Girl B writing her name)
	(Goodbye to LNTK Estate)

Teacher:

Does anyone know which primary school is it?

Girl B:

St Matthew's

Teacher:

Right!

This was one of the schools in LNTK Estate It's been relocated due to the estate's demolition Some of the electric fans, tables and chairs we're using were collected there by the Housing Department and donated to us for reuse

VO:

Over 40 years old

Lower Ngau Tau Kok Estate is the last estate demolished under the Housing Authority's Comprehensive Redevelopment Programme

To preserve the local heritage

we have collected over 300 abandoned

but historically valuable items from the estate before its demolition Some of them will be displayed in the redeveloped LNTK Estate

The rest will go to NGOs for promotion of local culture

We have also collected over 500 reusable items

from the three relocated schools for donation to schools and an NGO

Super (Title):

Lui Wing Yee Headmistress

SKH Kei Hin Primary School

Lui Wing Yee:

When the Housing Department invited us for an on-site inspection at the schools

we found a lot of useful items

Then they emailed us a list

We made our selection and faxed it back

When the items were delivered to us

our fellow workers, students and teachers

were all very happy

We found the stuff very useful

We received some tables, chairs, lights and electric fans

There were also sports equipment such as

vaulting horse

ping pong table and wooden staircase

Student A (on stage):

L-I-A-R

Lui Wing Yee:

The hand dryers are special to us as our school has never had one

When they were installed in the washrooms

the students were all very excited All these items are very durable

We try to convey to our students the importance of recycling and reusing resources for protection of our environment

We hope to pass on the message to both students and their parents

Lyrics:

If the look of this community can last Flourish like the blossoms it will be

Girl B:

Do you know what demolition is like?

Girl A:

Let's go and find out!

Girl B:

Uh

VO (Martin Tsoi):

Seven blocks are now being demolished

Five of them, blocks 8 to 12, were built with precast panels Since this is the first time we demolish precast buildings

we've done a lot of research We conducted on-site inspections

to find out the connection joints of the precast panel

We also made a structural model

to better understand the building structure

before we devised suitable demolition procedures and methods

Super (Title):

Martin Tsoi

Chief Structural Engineer Housing Department

Super:

Building Information Modelling (BIM)

Martin Tsoi:

We've used the BIM System
to refine the whole demolition process
and produce a short video
showing the demolition sequences and safety measures
The video helps familiarise the workers
with the whole demolition process beforehand
thus helping to improve their efficiency and safety awareness
Most of the buildings we tore down in the past
were cast in-situ concrete blocks
that is, the concrete was mixed and poured on site
But 5 of the domestic blocks in LNTK Estate
were built with precast panels
thus requiring a brand new demolition method
Demolition works are often highly difficult and risky
We resort to a cut-and-lift approach this time

Super:

The Cut-and-lift approach

Martin Tsoi:

Adopting a reverse method we have to find out the precast joints first Entire pieces of precast panels are then lifted away one by one in a prescribed sequence devised from precise calculation and consideration

Super:

Temporary props and braces

Martin Tsoi:

We have to install temporary props and braces before the demolition Then we remove the floor slabs balcony grille panels and walls floor after floor Any errors may make the building collapse like a loose stack of blocks

Super:

Asbestos abatement

Martin Tsoi:

As the lobby grilles and some balcony grille panels contain asbestos
we've employed an independent registered asbestos consultant to inspect and assess the location
amount of asbestos and the removal method
A containment method is adopted for the asbestos abatement
As the consultant is independent
he helps us to supervise the contractor
during the whole asbestos abatement process
Caring for the community
is always among the Housing Authority's goals
We are here to serve the residents
as well as the whole community
We aim to minimise nuisance to the environment
and the neighbourhood throughout the demolition

Our project team also wants to contribute to the community

VO:

LNTK Estate located between two busy entrances of Kowloon Bay MTR Station is surrounded by many densely populated housing estates During the demolition we take special precautions to minimise inconvenience to the pedestrians and nuisance to the local community In view of the high traffic flow we have broadened the pedestrian access at the MTR Station from the minimum statutory requirement of 2 m to 3 m

Super:

Broadening pedestrian access

VO:

Also, the cantilevered design of the hoarding covers around part of the site helps to broaden the pedestrian walk

Girl B:

Innovating working methods Demolishing in whole Reducing noise and dust Putting safety first

VO:

Some modular hoardings were installed with bolts and nuts along the pedestrian access
This renders the hoardings reusable

Super:	
	Minimising nuisance
vo:	
	while also avoiding nuisance to the pedestrian
	caused by traditional on-site welding Plants grown along the hoarding create a greener environment and help reduce noise from the demolition site
Super:	
	Sound Level Meter
Super:	
	Minimising noise and dust
VO:	
	The cut-and-lift method for demolition of precast buildings helps reduce noise and dust significantly Dust suppressors using atomizers are also installed on site for dust reduction
Super:	
	Ensuring air quality
VO:	
	To ensure no adverse impact on the air quality in the neighbourhood during asbestos abatement we have increased air monitoring points from the routine requirement of 8 to 12 and extended the monitoring area to various nearby estates
Super:	
	Air Sampler
VO:	
	The asbestos content in the air is checked every working day to ensure safety standards are met
Super:	
	Reducing traffic load

VO:

38-ton dumping trucks instead of the usual 24-ton trucks are used for transporting construction waste

It reduces the frequency of road trips and minimises impact to the traffic

We have made different attempts to recycle and reuse the vast amount of demolition waste

Super:

Recycling construction waste

VO:

Some precast panels will be used for paving in other construction sites and some are crushed on site by concrete crushers as back-filling materials for sites and road base of new roads

Subtitle (explanation of the scene):

(Drawing exercise: Public Housing Development in Hong Kong)

Subtitle (explanation of the scene):

(Themes on the display board) (Recycling for the environment) (Demolishing in whole) (Caring for the community)

Lyric:

Lo, radiant are the dancing flowers Lo, happy are the birds on the cotton tree If the look of this community can last Flourish like the blossoms it will be

Super:

Time has changed, things have changed but our care for the living environment has never changed

End Super:

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