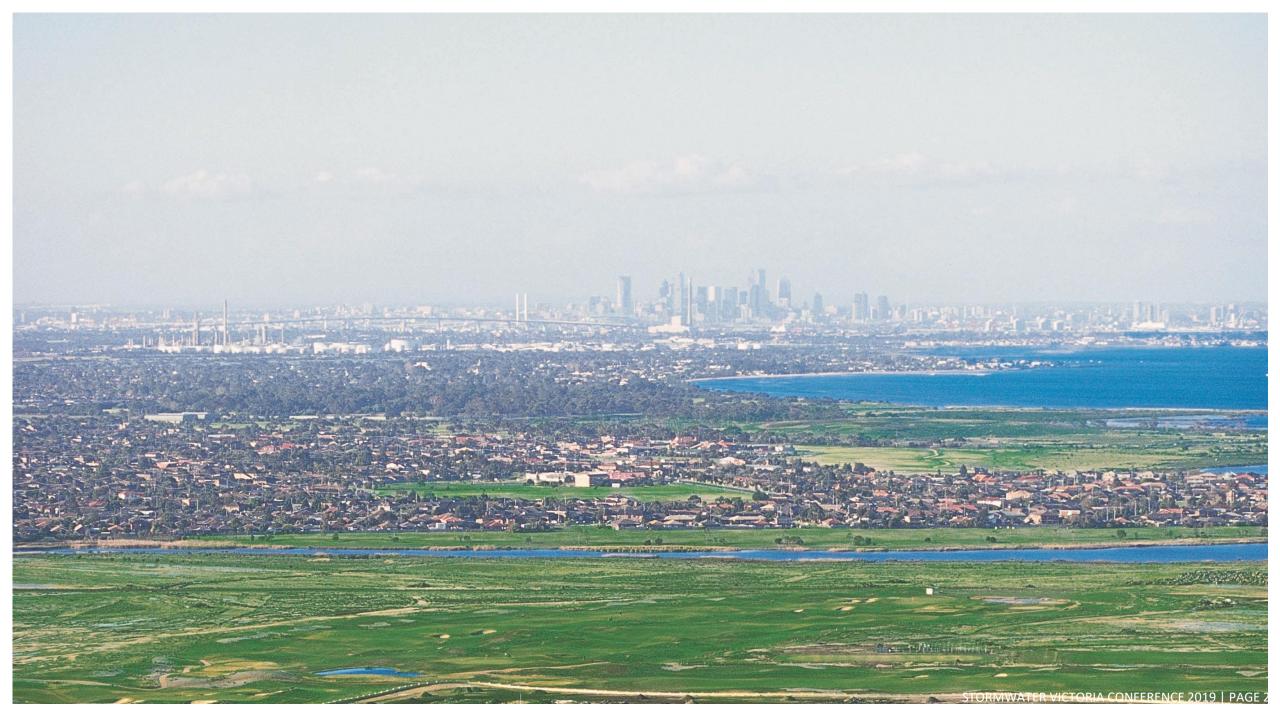
LIVING ALONGSIDE THE GROWLING GRASS FROG IN THE

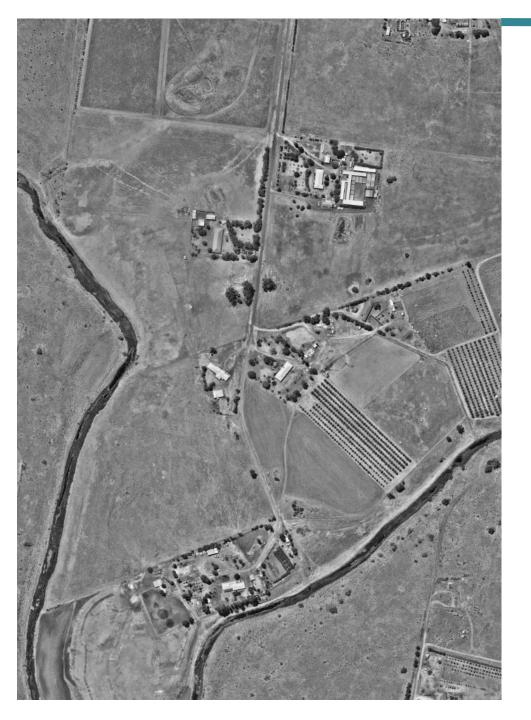
URBAN JUNGLE

PRESENTED BY ADELE FARAONE









OUTLINE POINTS OF DISCUSSION

- Understanding the Context
- Responding to the needs of the Growling Grass Frog (GGF)
- Case Study: Vere Court Deanside
- Creating a Win-Win Solution

GROWTH OF AN URBAN JUNGLE

- Population Growth of Greater Melbourne
- Clear strategy for the development of growth corridors over the next 30 - 40 years
- Highlight areas of high environmental value for preservation. Urban lifestyles and a healthy environment



STORMWATER REQUIREMENTS



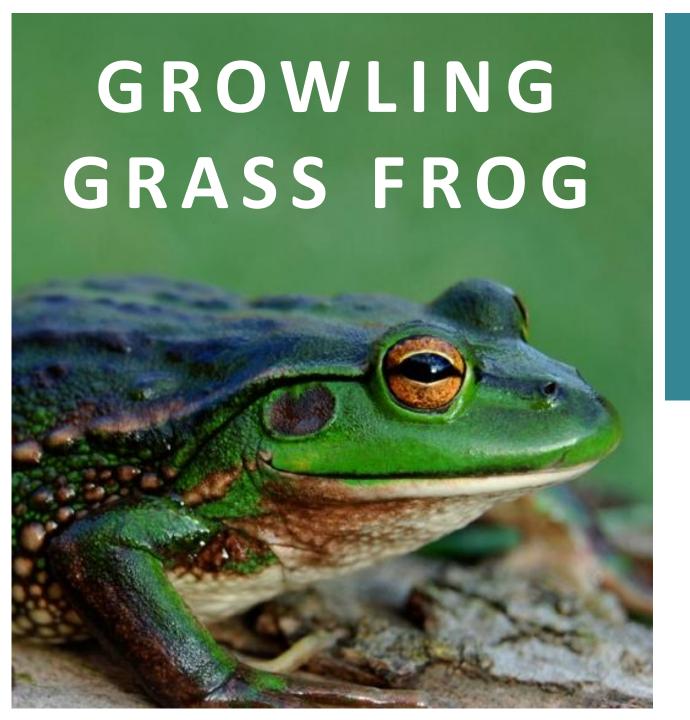
Changes to
Victorian Planning
Provision for
Stormwater
Management



Mitigation of stormwater runoff impacts on the environment



Provide cooling, local habitat and amenity benefits



- One of the most common frogs in south-eastern Australia
- Substantial population decline since late 1970s
- Numerous threatening processes contribute to their decline – many of which through urbanisation



URBANISATION VS THE FROG

WHAT ARE THE IMPACTS?









PERMANENT HABITAT REMOVAL DISTINCT CHANGES
IN HYDROLOGICAL
REGIMES

INCREASED EXPOSURE TO PREDATORS

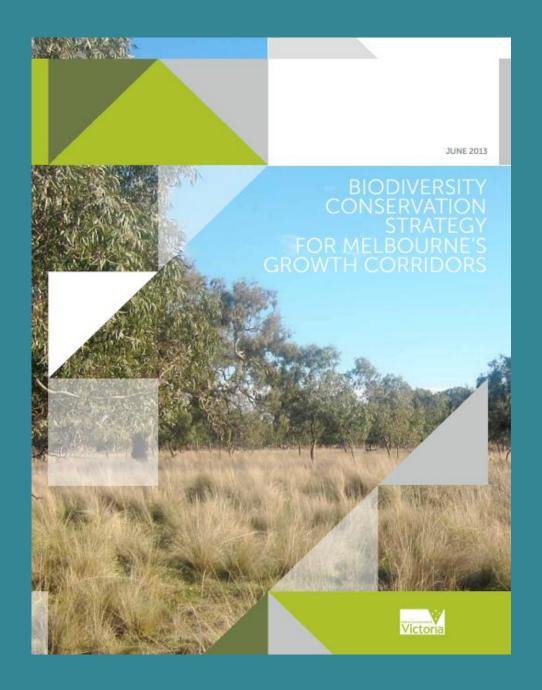
DECLINE IN POPULATION SIZE

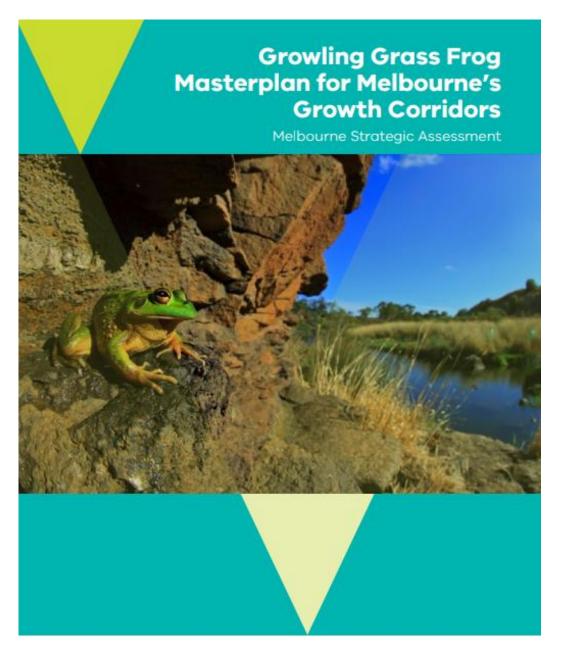
Loss of connectivity between habitats from roads, drainage infrastructure and creation of unsuitable habitat

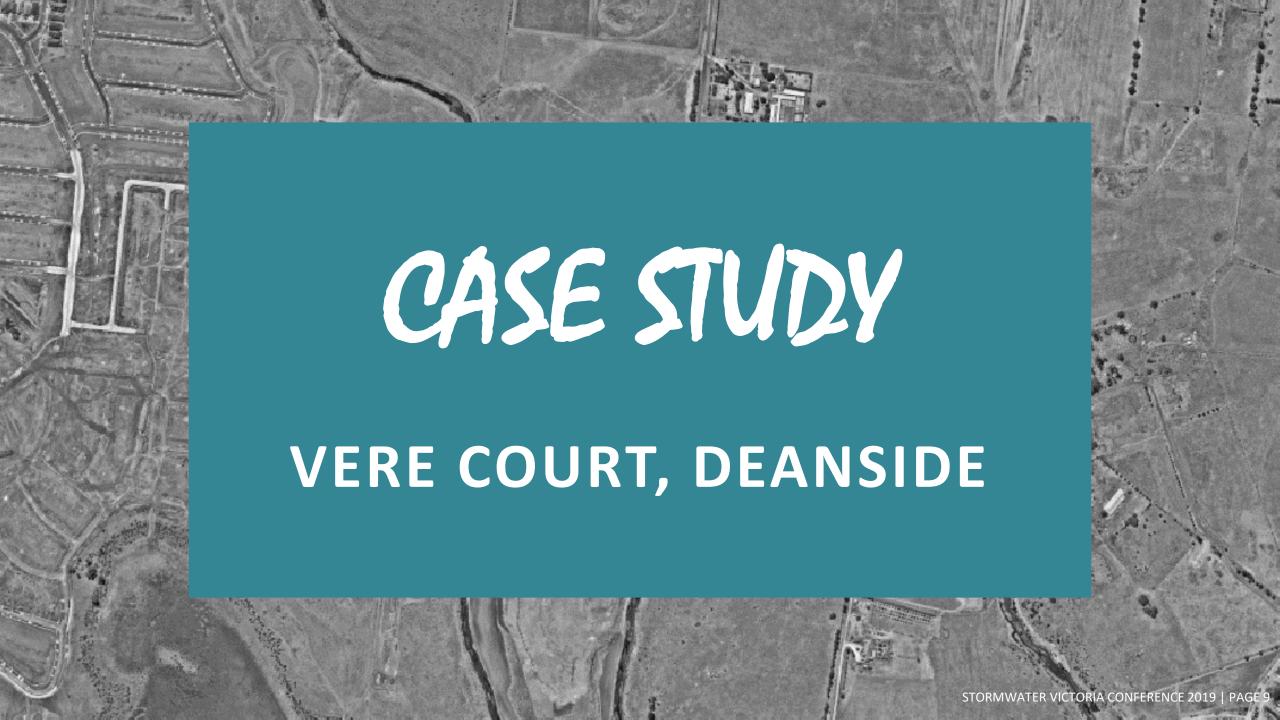
Changes to frequency, volume, velocity of flows, aquatic vegetation and poor water quality

Introduced fish species become a new threat and increased and dense terrestrial vegetation

Fragmentation and loss of habitats, populations and species



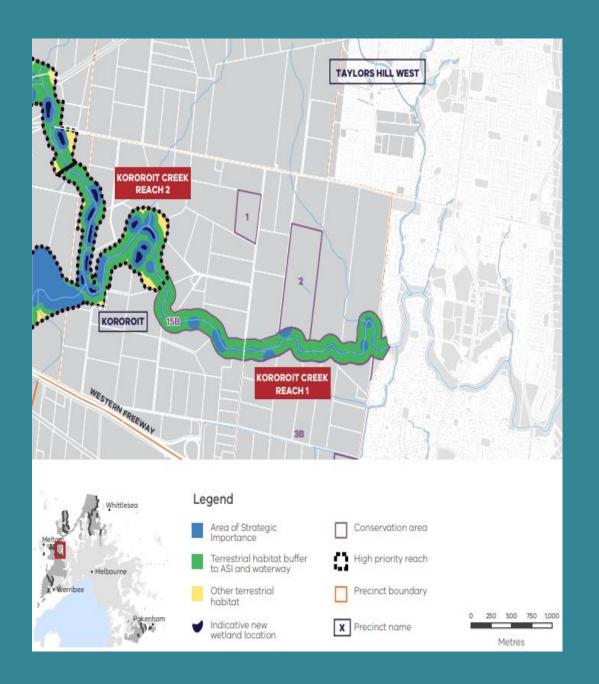


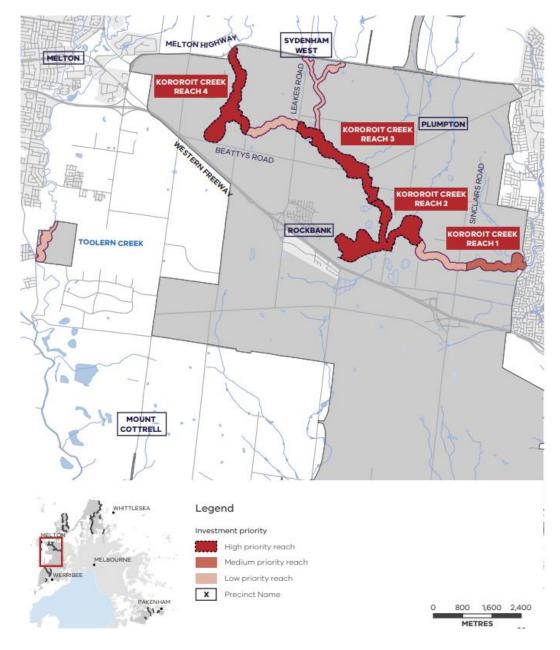


SITE SNAPSHOT

- Site is located within the Melton Growth Area
- Bounded by KororoitCreek
- Conservation Area
- Home to the Growling Grass Frog









STORMWATER ASSETS



Stormwater
requirement for 3
assets inclusive of
wetlands, sediment
ponds and a bioretention system



of 3 assets to be co-located within the Conservation Area



Works in a Conservation Area Application (WICA)

PLANNING PERMIT APPLICATION

PLANNING PERMIT APPLICATION

SUPPLEMENTED BY SUBCONSULTANT REPORTS AND ANALYSIS I.E STORMWATER MANAGEMENT STRATEGY

REQUEST FOR
INFORMATION FROM
COUNCIL &
MELBOURNE WATER

CONCURRENTLY WITH

PLANNING PERMIT

WORKS IN A CONSERVATION AREA APPLICATION (WICA)

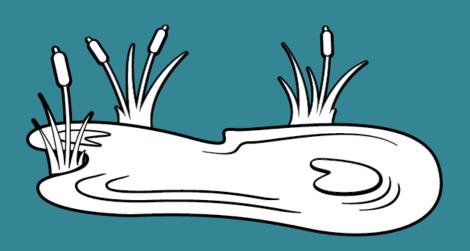




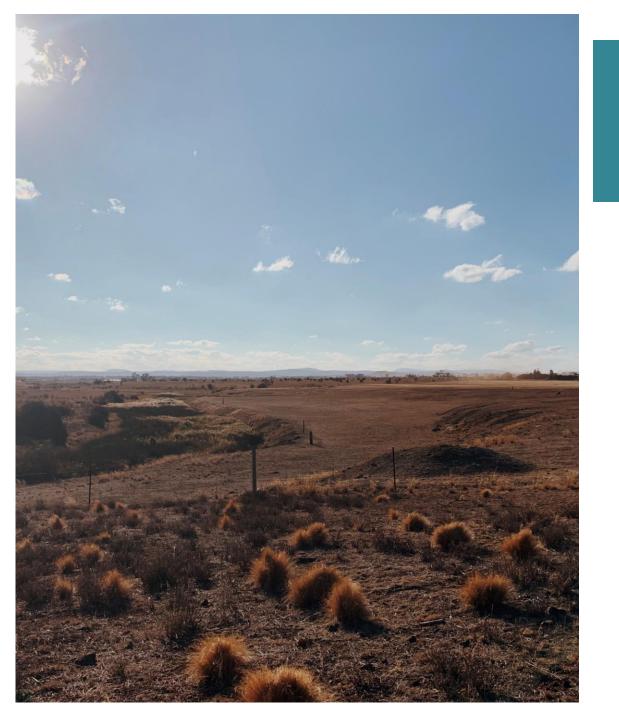
ASSET CONFIGURATION

- Meets criteria for Stormwater Management
- Co-location of assets in Conservation Area
- Connection to GGF Ponds
- Native Vegetation
- Constructability & Cost
- Liaison with Multiple Authorities

ENCOURAGING GROWING GRASS FROG (GGF) HABITAT



- Proposed Growling Grass Frog ponds are not to be built in the area for some time
 - Assets constructed within the Conservation Area to provide suitable conditions for the establishment of a Growling Grass Frog meta-population
- DELWP's proposal for stepping stone GGF wetlands along Kororoit Creek
- Improving quality of conservation area within Kororoit Creek to promote GGF survival through remediation of aquatic and terrestrial habitat

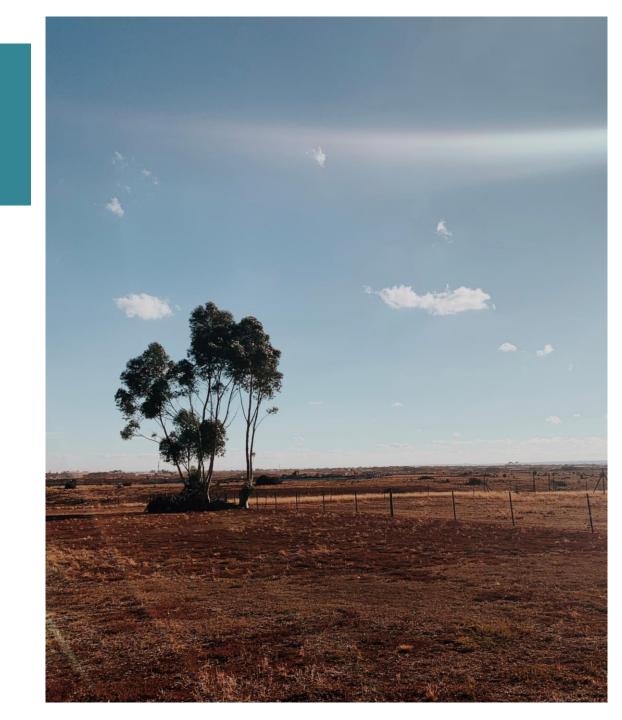


CREATING A WIN - WIN SOLUTION

- There is a real opportunity to improve GGF Habitat and improve quality of conservation area
- Reliance on groundwater to feed Growling Grass Frog Ponds
- Creation of high quality green corridor that will enhance property values and provide better community outcomes

CREATING A WIN - WIN SOLUTION

- Developer to gain 30 extra lots from just
 1 asset co-location which represents a
 10% increase in revenue
- Traditional Consultant vs Authority attitude
- Unique position along Kororoit Creek provides opportunity for extensive community engagement and education from all parties involved





PROMOTING BETTER OUTCOMES

- Bring client on the journey
- Maintaining discussion with all authorities through the process is crucial
- Taking advantage of the unique features of your site

