



Wetland Rehabilitation Site



Barra and Beef



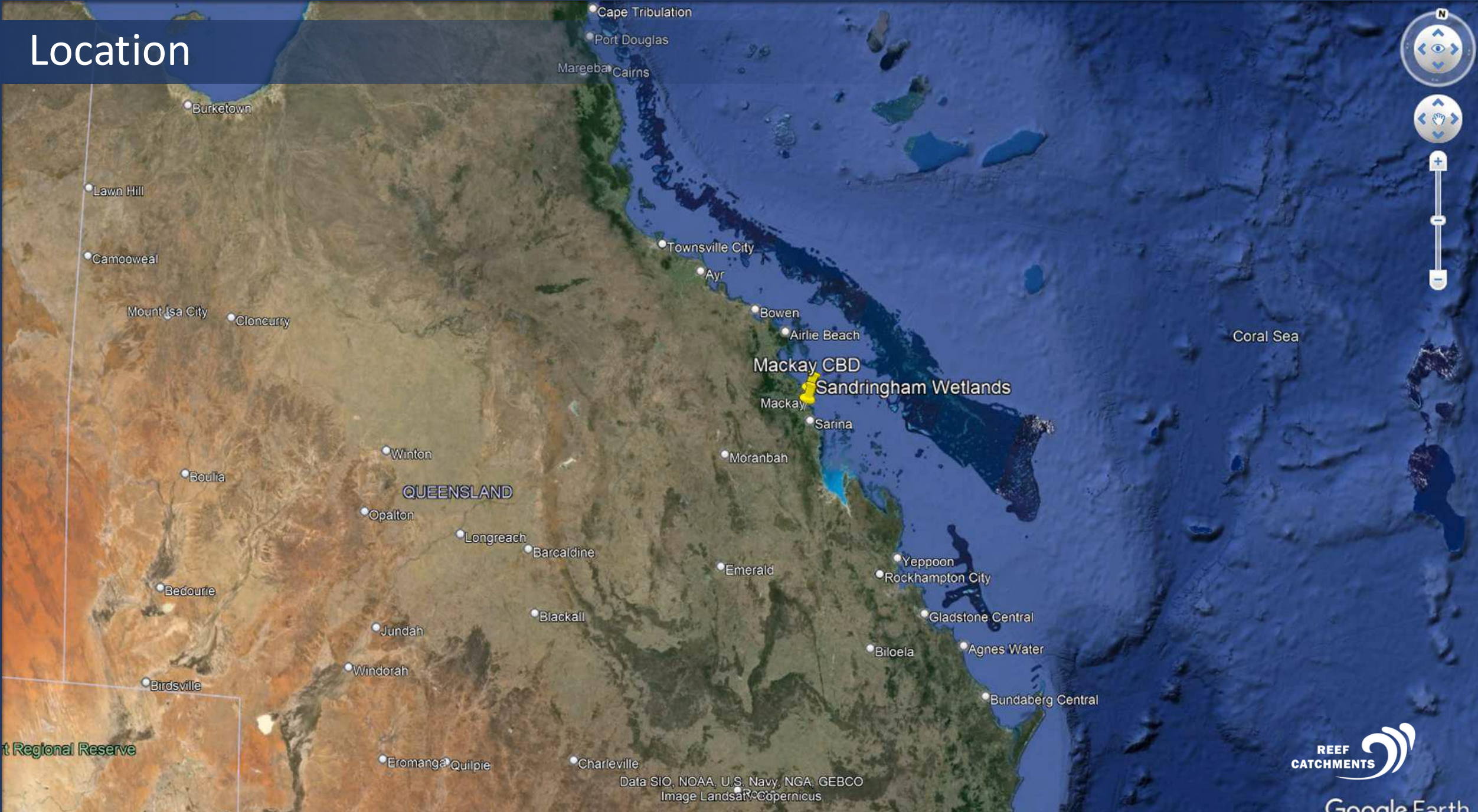
Jason Bradford

Landholder Sandringham Wetland Complex

Carlos Bueno

Senior Project Officer Reef Catchments NRM

Location



Cape Tribulation

Port Douglas

Mareeba Cairns

Burketown

Lawn Hill

Camooweal

Mount Isa City

Cloncurry

Winton

Boulia

QUEENSLAND

Opalton

Longreach

Barcaldine

Bedourie

Blackall

Jundah

Windorah

Birdsville

Eromanga

Quilpie

Charleville

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat Copernicus

Townsville City

Ayr

Bowen

Airlie Beach

Mackay CBD

Mackay

Sarina

Moranbah

Emerald

Yeppoon

Rockhampton City

Gladstone Central

Biloela

Agnes Water

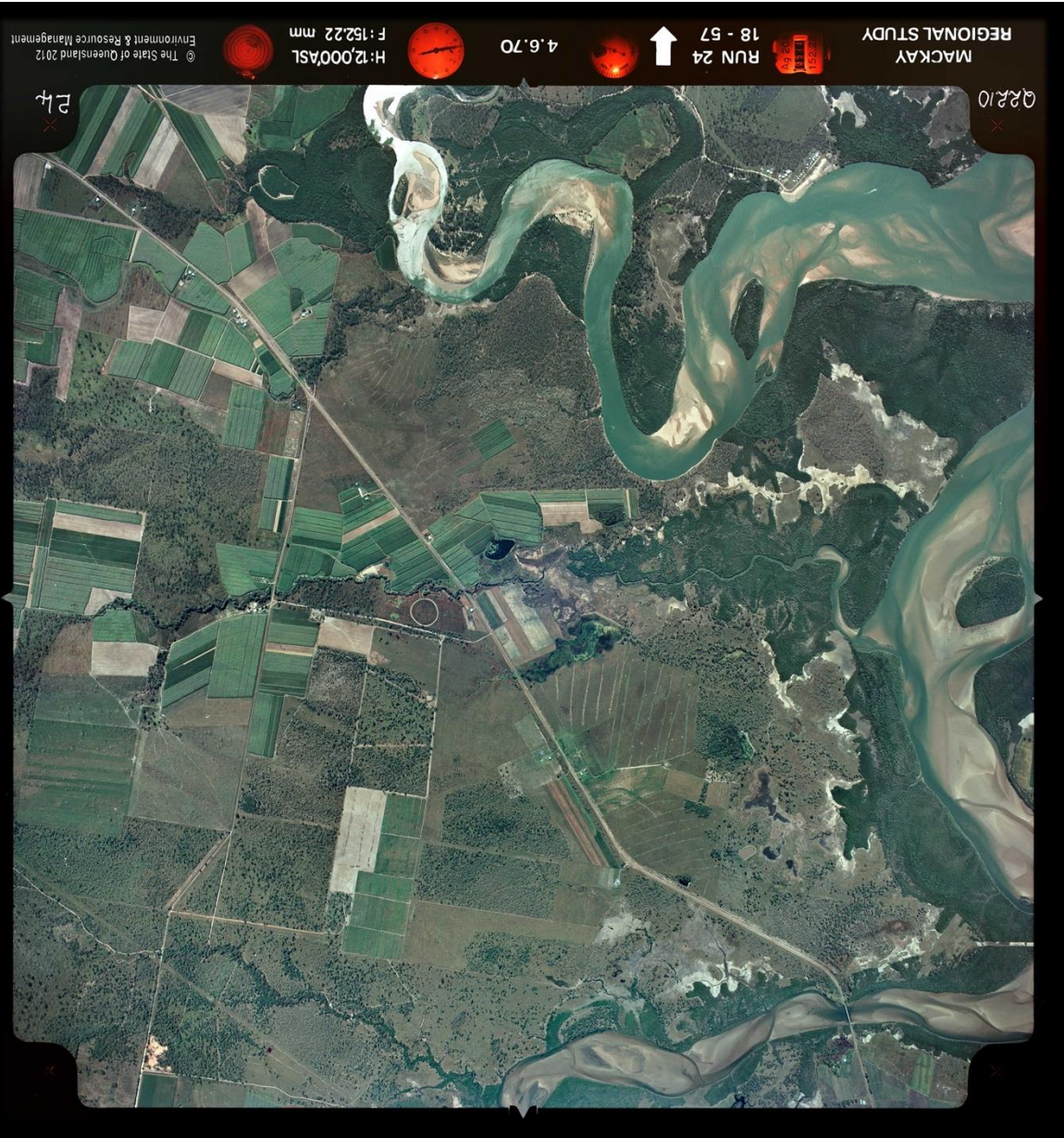
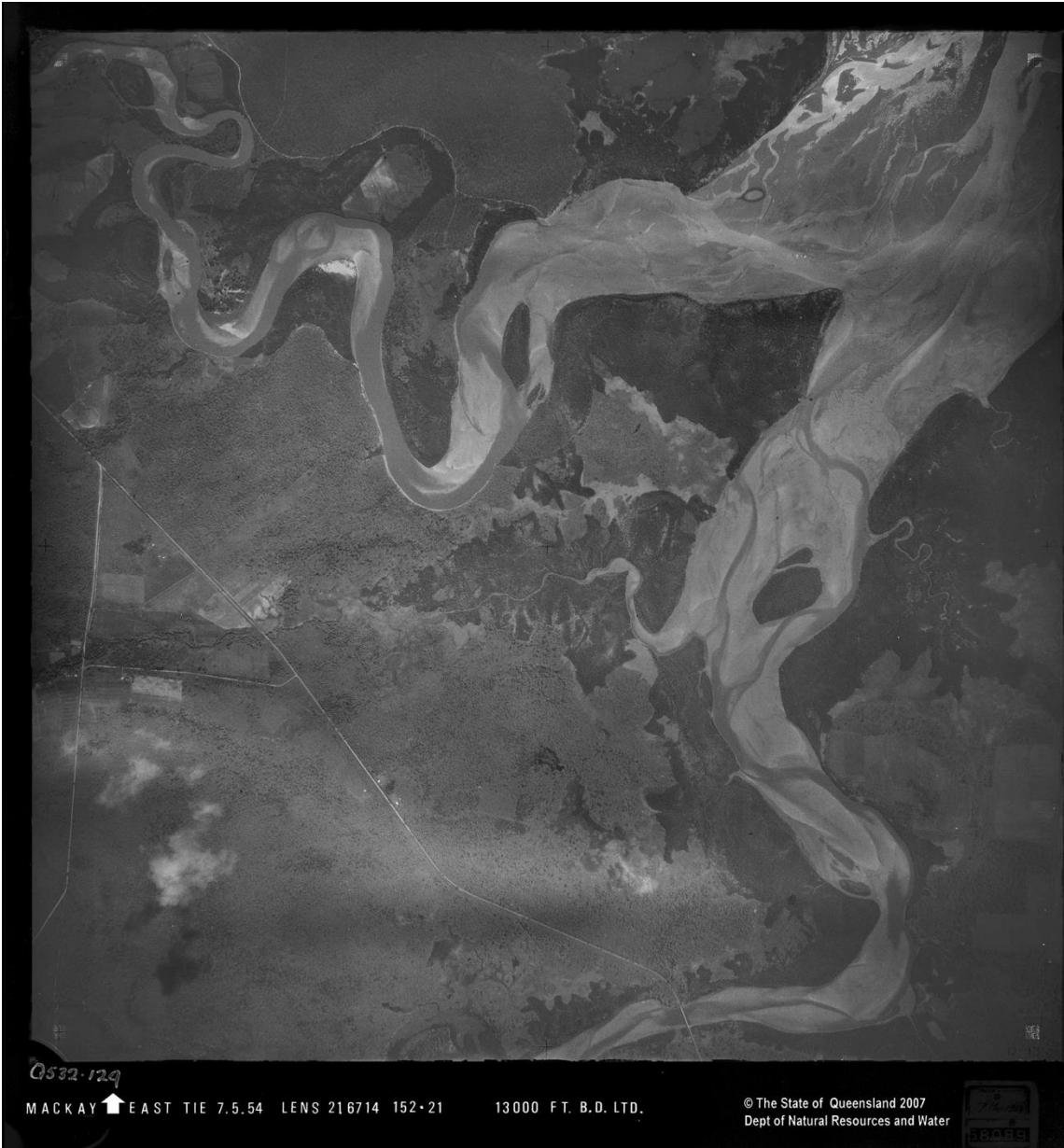
Bundaberg Central

Coral Sea



Google Earth

1950 to 1970



1991 to 2017



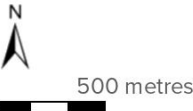
21°17'13"S 149°9'51"E

21°17'13"S 149°11'53"E



Legend located on next page

***Hymenachne
expansion**



Scale: 1:18055

Printed at: A4

Print date: 10/5/2024

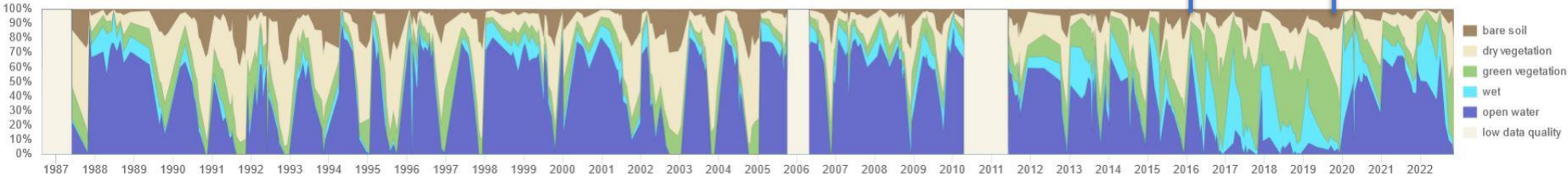
Not suitable for accurate measurement.

Projection: Web Mercator EPSG 102100 (3857)

For more information, visit
<https://qldglobe.information.qld.gov.au/help-info/Contact-us.html>

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Percentage of area dominated by WOFS, Wetness, Fractional Cover
Wetland W6Y2019A336354



Off-stream Watering Points

- **120ha** of improving management practices
- Installation of **11 x OSWP** and **8km of fences**
- Mobile and permanent infrastructure



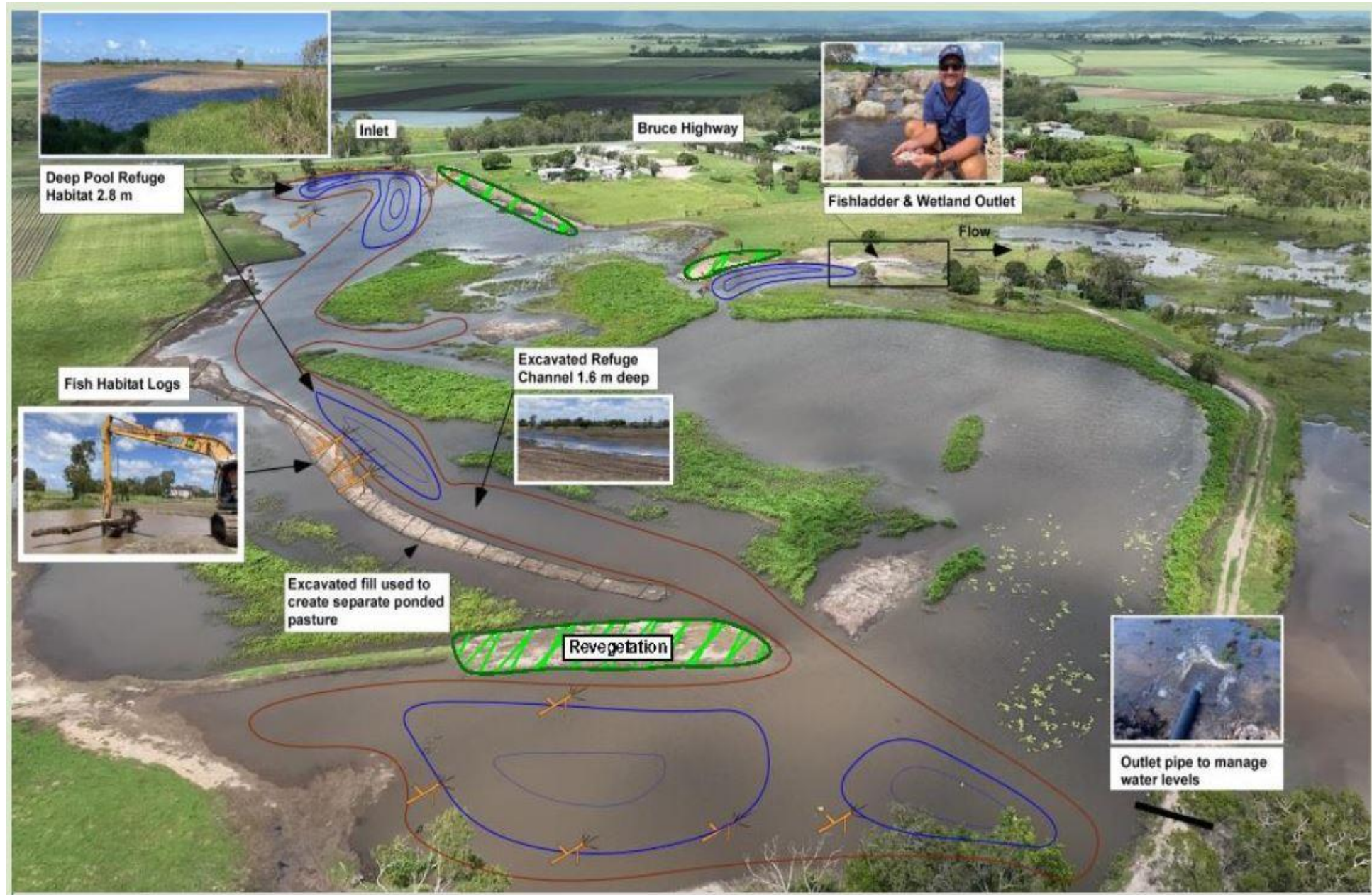
**WILD RIVER
CONCRETE
(07) 4669 8371**



Fences



Wetland Works





Revegetation



Fishladder monitoring

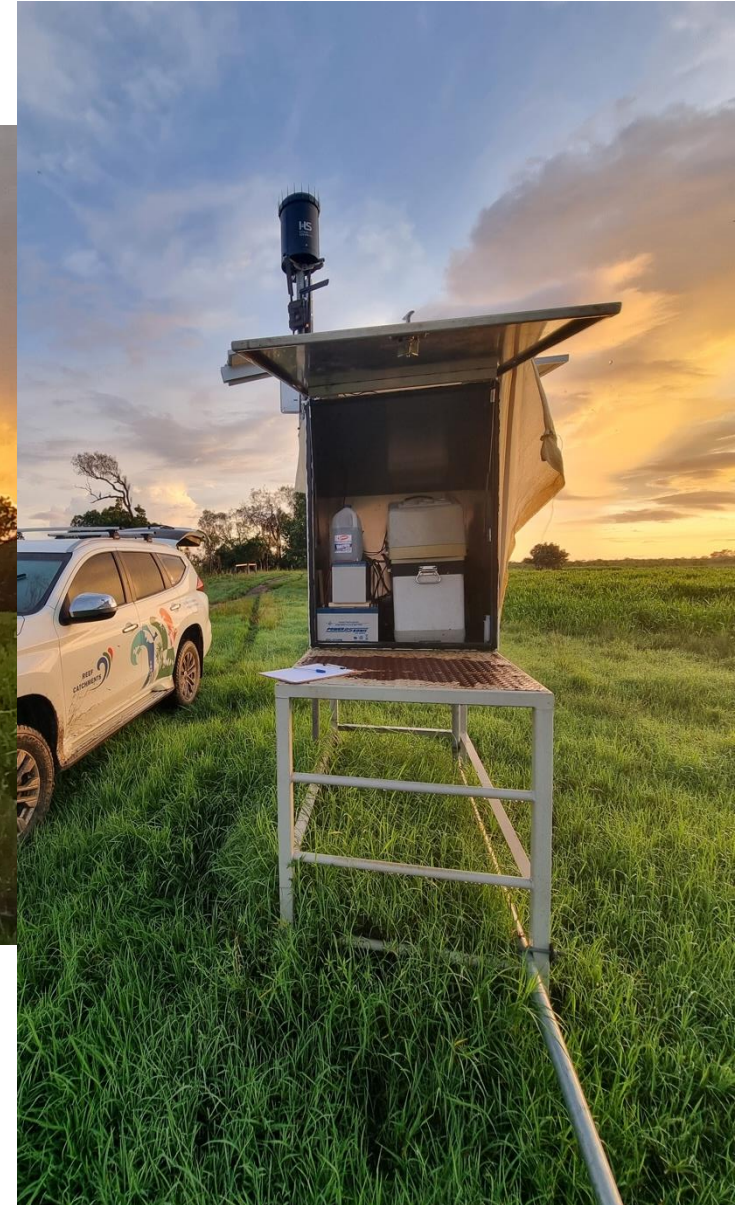


Electrofishing





Water Quality 23-24



Great Barrier
Reef Foundation



TropWATER

Water Quality Monitoring 23/24

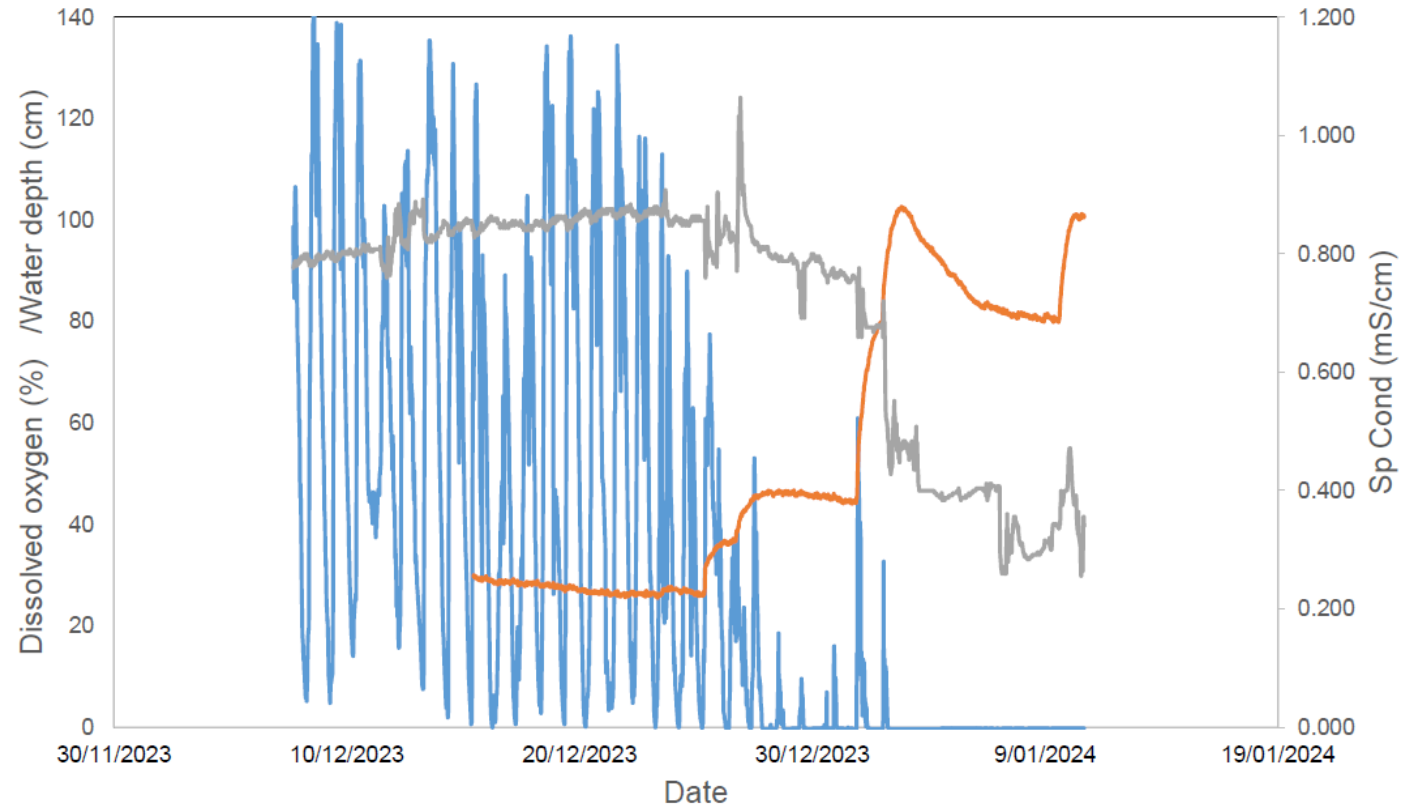
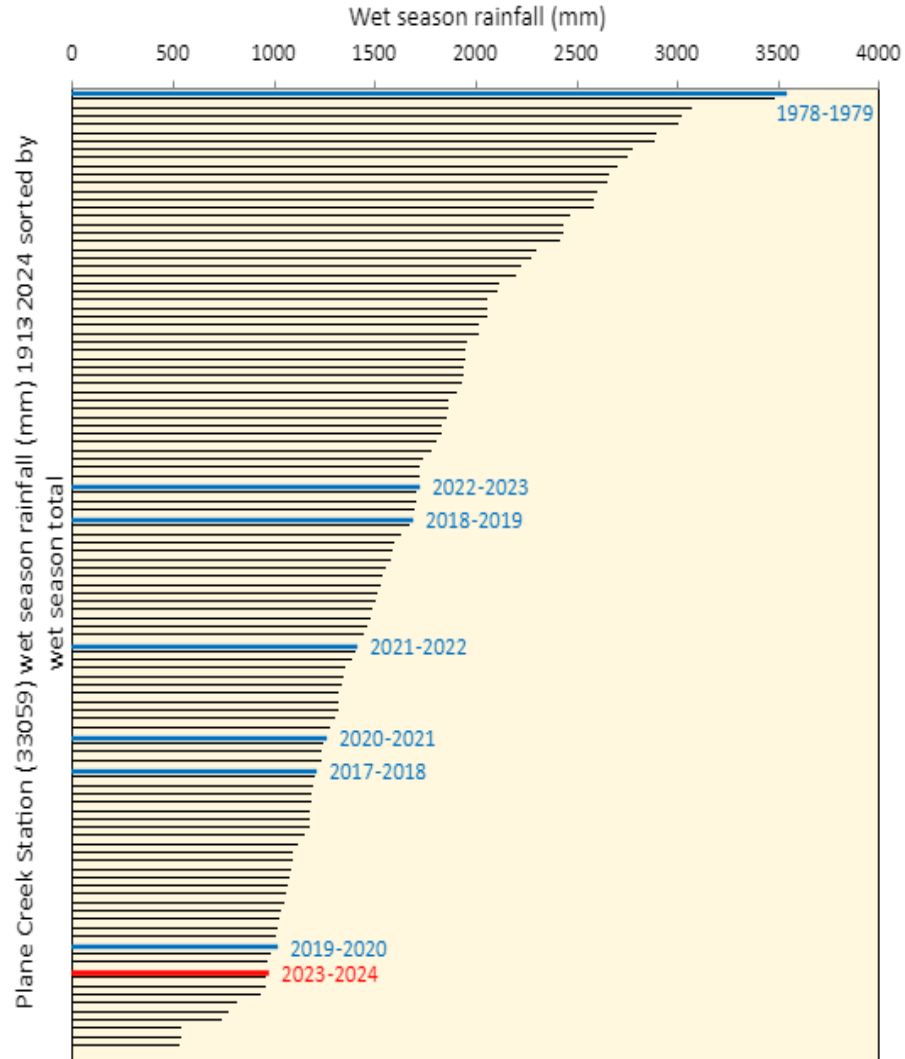
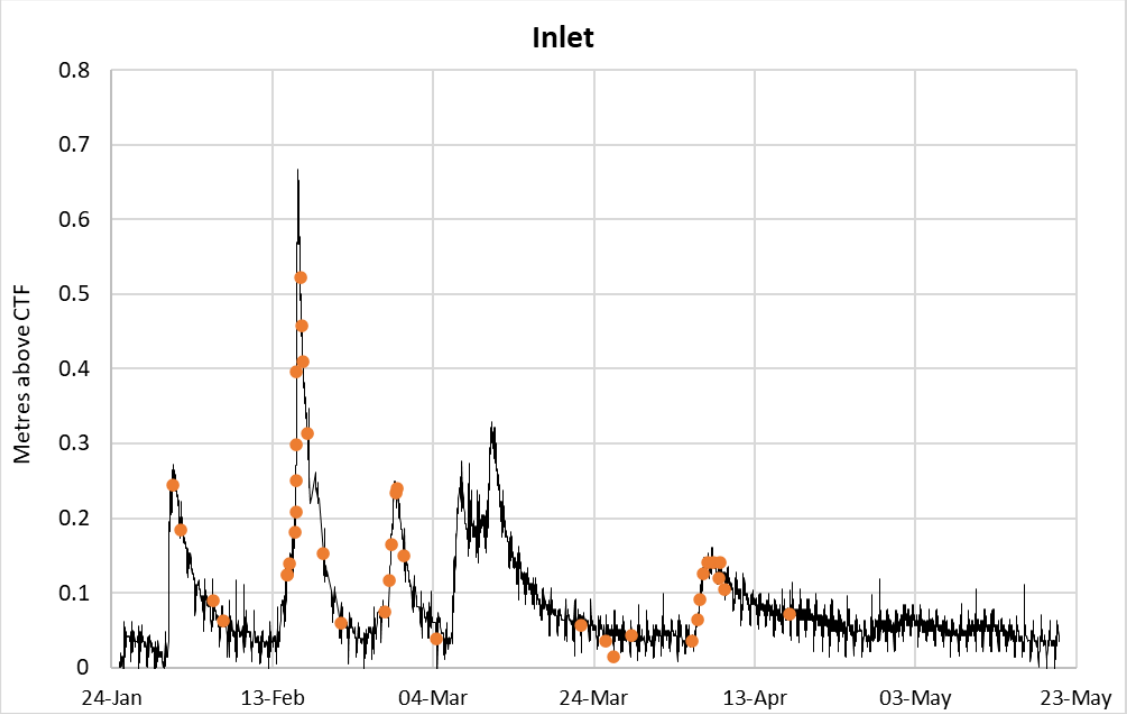


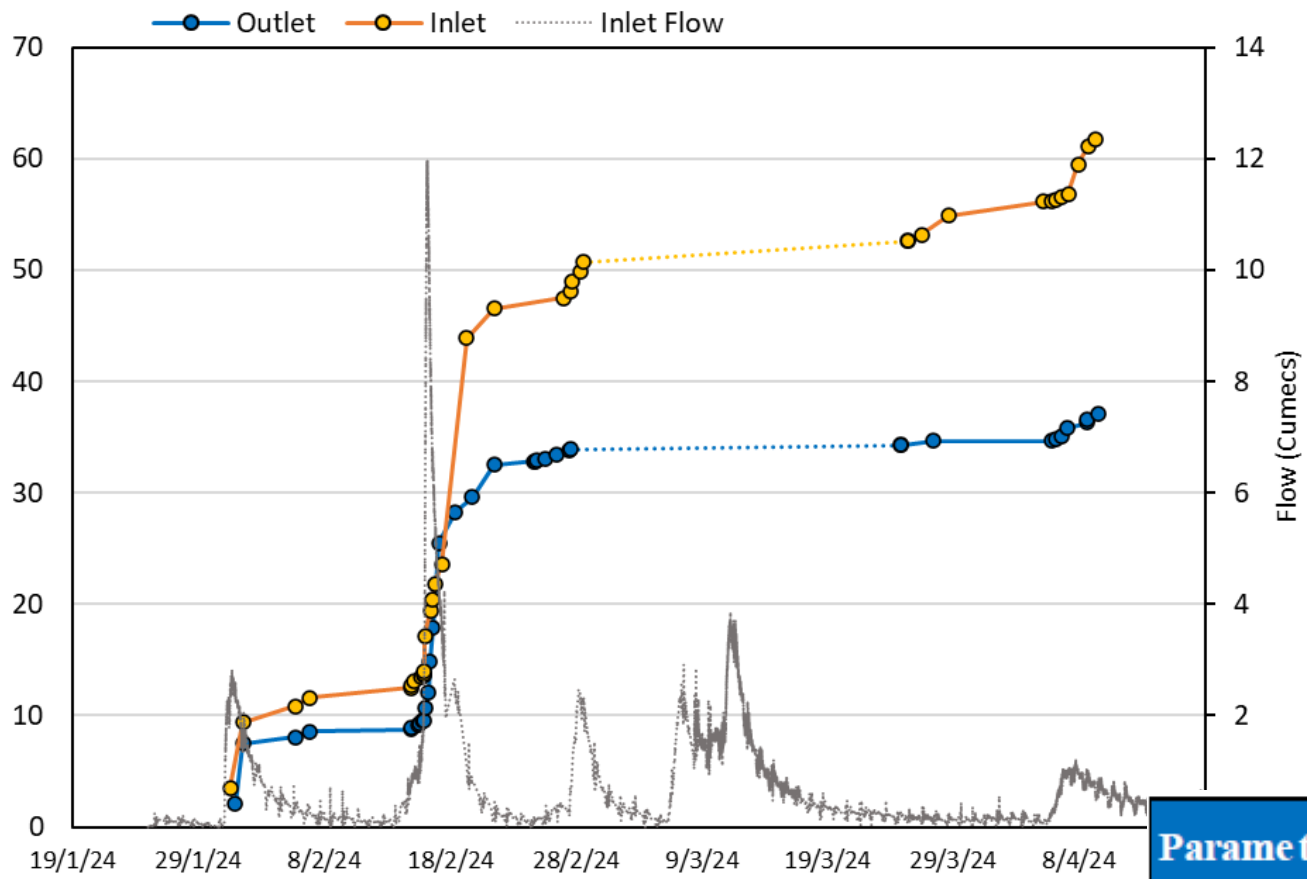
Figure 3.6.

Water logging data from devices deployed in the outlet - (blue) dissolved oxygen, (orange) water depth; and (grey) specific conductivity.

Parameter	Location	Median	80 th Percentile	95 th Percentile	Maximum
Total Suspended Solids	Inlet	15	31	65.2	120
	Outlet	10	21.6	33	45
	Difference	-33.3%	-30.3%	-49.4%	-62.5%
Volatile Suspended Solids	Inlet	4.9	9.92	21	34
	Outlet	6	8.86	13.5	16.3
	Difference	22.4%	-10.7%	-35.7%	-52.1%
Turbidity	Inlet	45	74	102	110
	Outlet	13	39	56	65
	Difference	-71.1%	-47.3%	-45.1%	-40.9%
Total Nitrogen	Inlet	1052	1345	1554.2	1865
	Outlet	888	1118.2	1275.4	1300
	Difference	-15.6%	-16.9%	-17.9%	-30.3%
Total Dissolved Nitrogen	Inlet	728	968	1216.2	1291
	Outlet	701	769.2	878.4	991
	Difference	-3.7%	-20.5%	-27.8%	-23.2%
DIN	Inlet	86	251.2	460.4	627
	Outlet	33	72	127.2	361
	Difference	-61.6%	-71.3%	-72.4%	-42.4%
Oxidized Nitrogen	Inlet	5	10.6	30.6	40
	Outlet	6	17.8	93.8	177
	Difference	20.0%	67.9%	206.5%	342.5%
Ammonia	Inlet	80	246.2	455.6	624
	Outlet	23	45	78	184
	Difference	-71.3%	-81.7%	-82.9%	-70.5%



Total Suspended Solids Transport load (Tonnes)

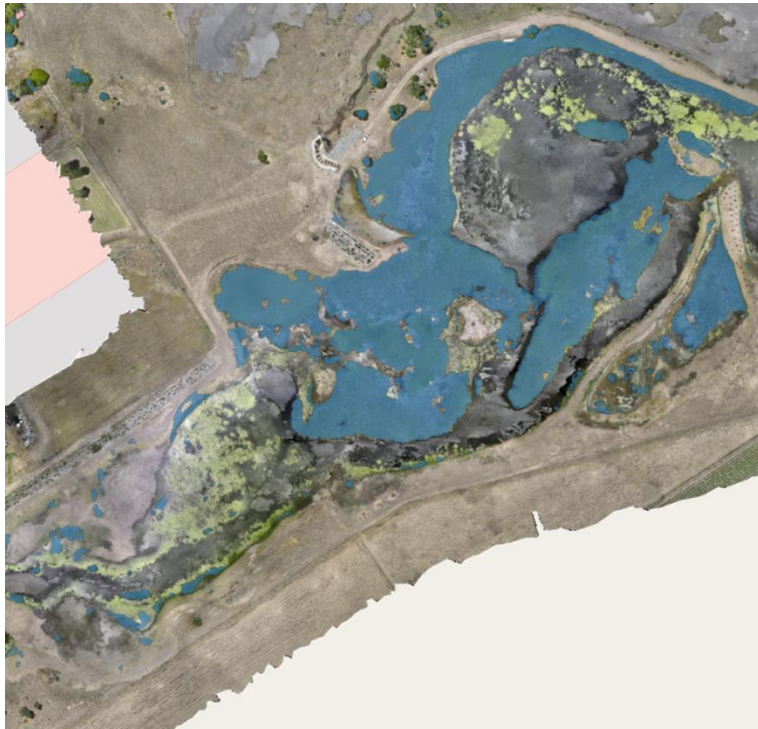


Parameter	Unit	Inlet	Outlet	Difference
Total Suspended Solids	Tonnes	61.8	37.1	-39.9%
Volatile Suspended Solids	Tonnes	19.3	15.4	-20.0%
Total Nitrogen	kg	2723.6	2285.1	-16.1%
Total Dissolved Nitrogen	kg	1965.1	1595.7	-18.8%
DIN	kg	381.7	196.1	-48.6%
Oxidized Nitrogen	kg	35.5	92.1	159.1%
Ammoniacal N	kg	346.2	104.1	-69.9%

Sandringham Wetland Hymenachne Extent

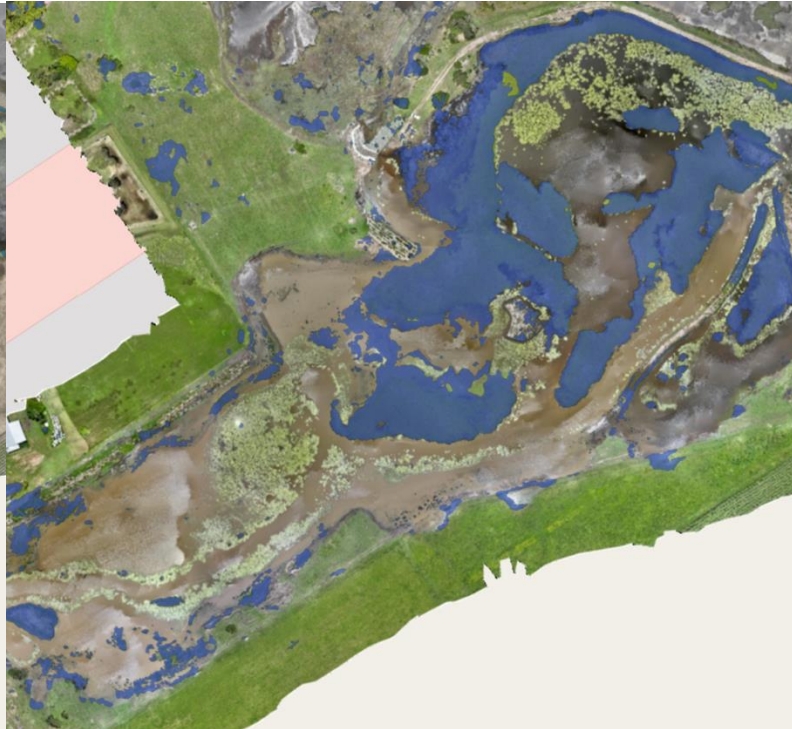
8 Nov 2023

32 656 m²



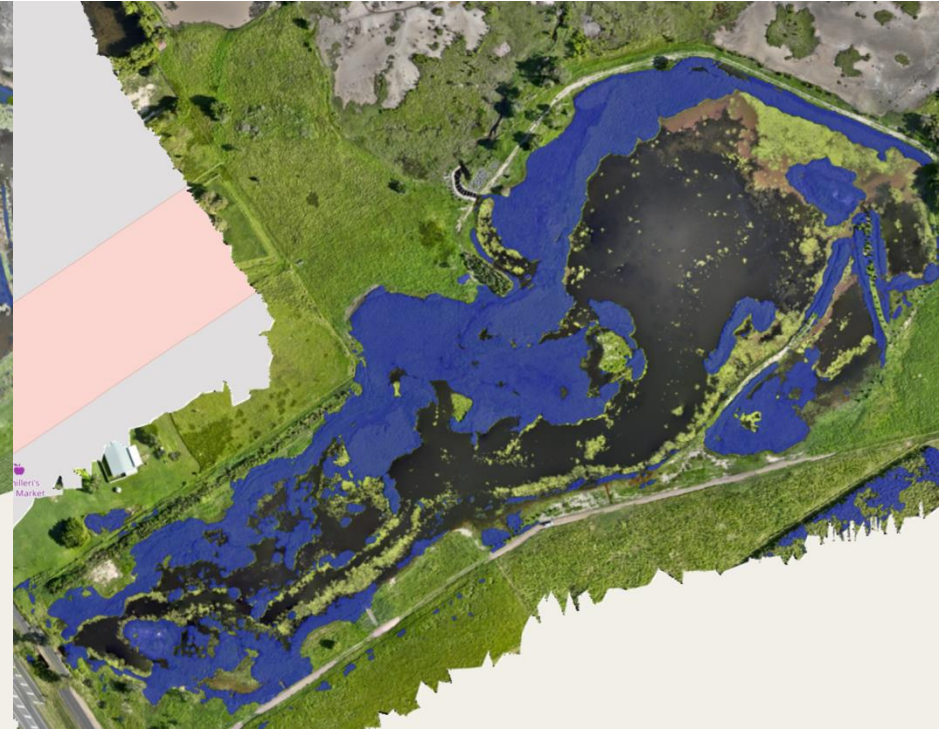
2 Jan 2024

31 917m²

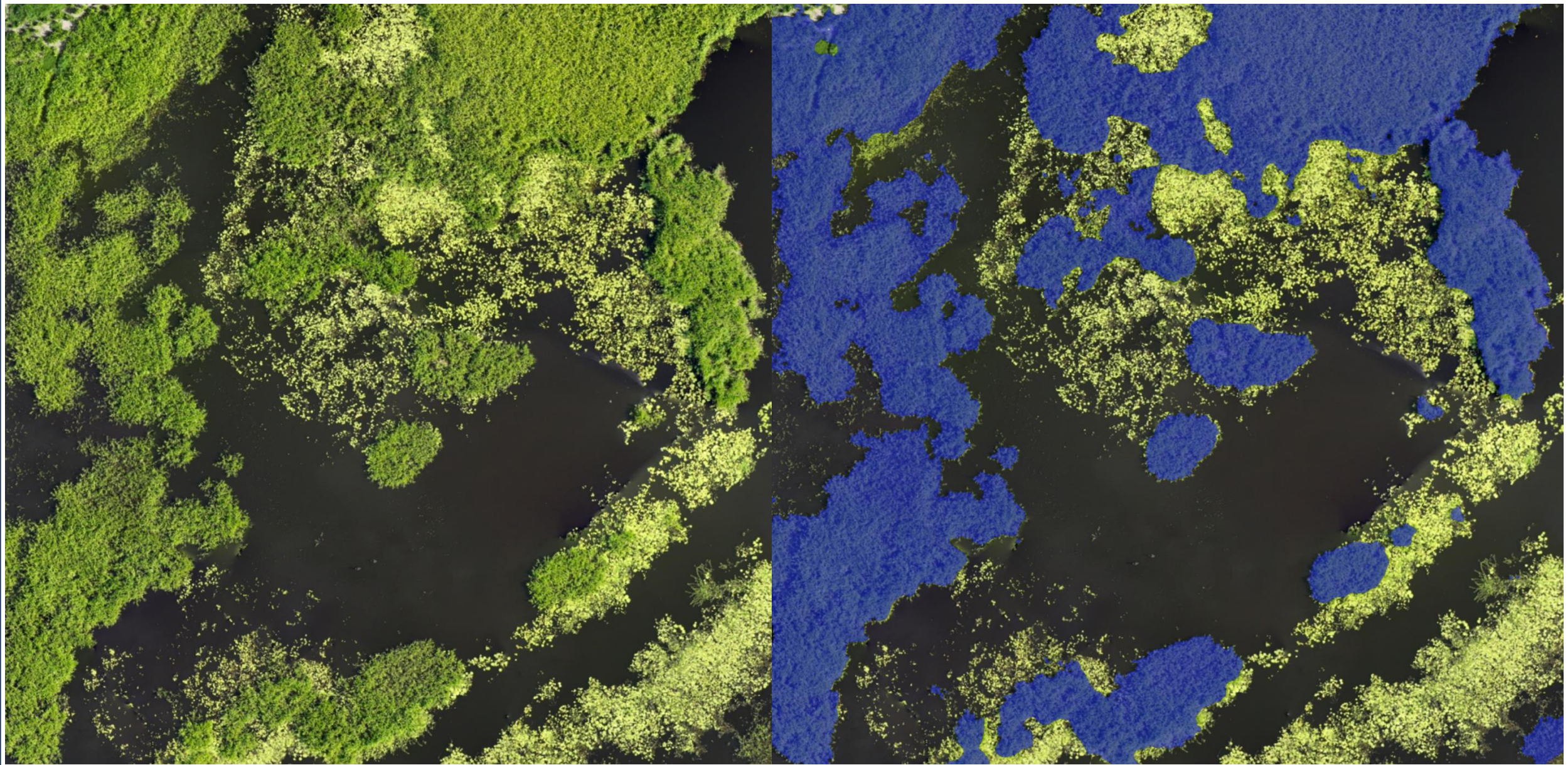


10 Jan 2025

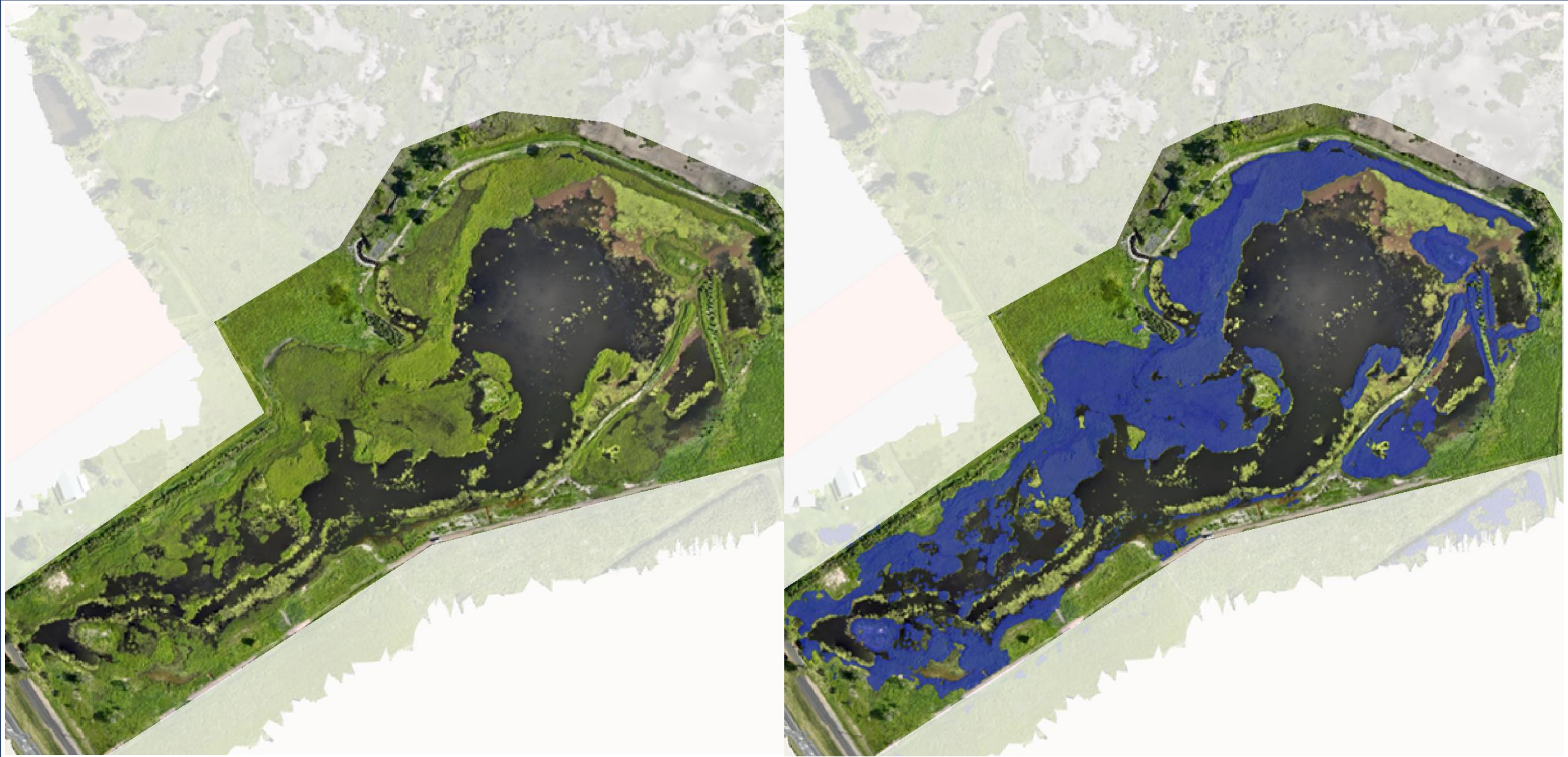
42 360 m²



*Area measurement is an indication only.

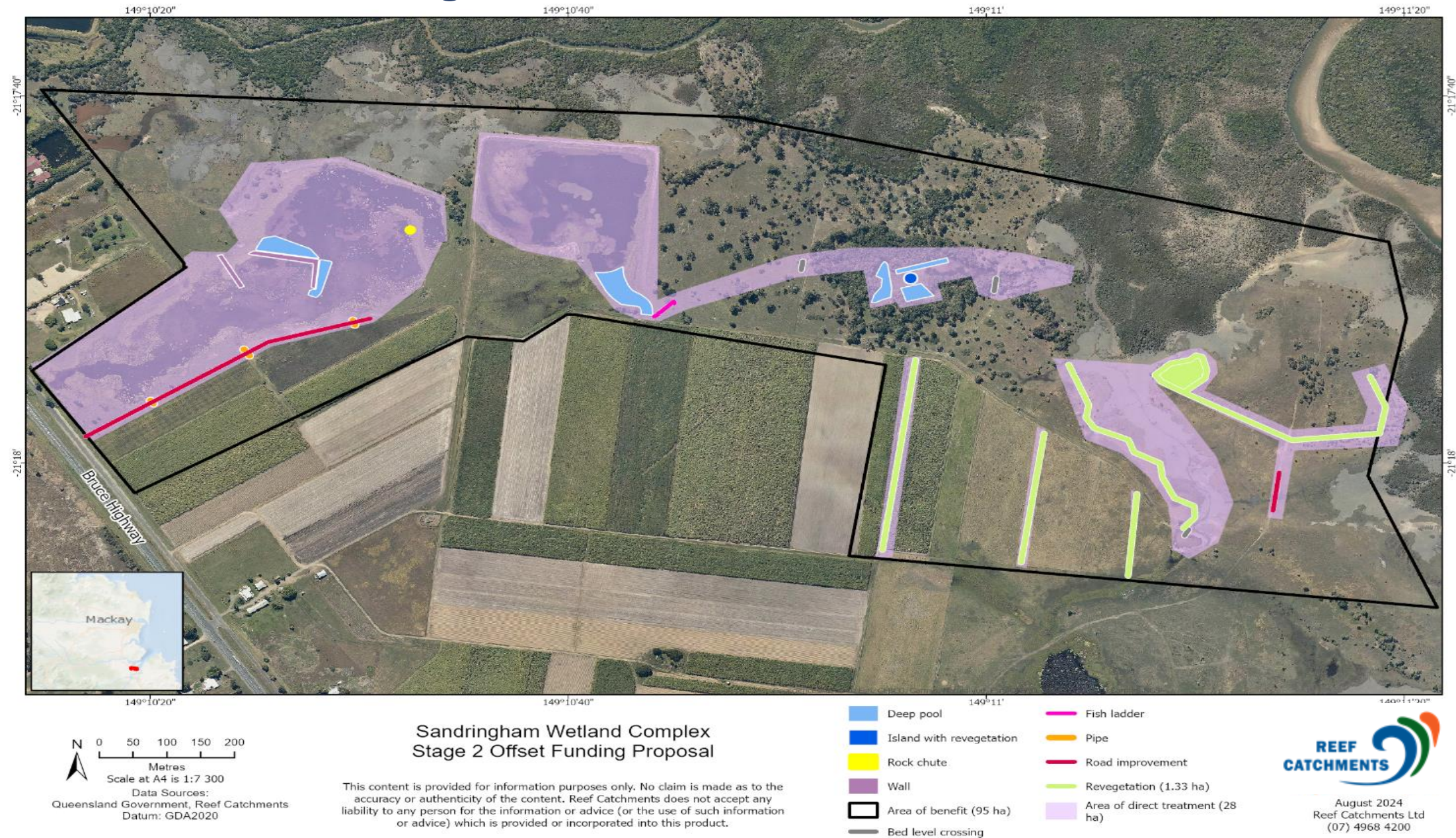


Hymenachne identification using Picterra AI on Mavic 3 drone rgb imagery.



Hymenachne identification using Picterra AI on Mavic 3 drone rgb imagery.

Wetland Offset Funding



Access Improvements



Revegetation

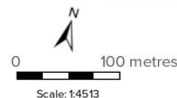


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**Queensland
Government**

Department of Natural Resources and Mines,
Manufacturing, and Regional and Rural Development



Maintenance



Fish Habitat Improvements



Feral Pigs





Thank you!

Any Questions?



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Complex Storyboard



Resilient ecosystems,
Engaged Community