



PHCC REI Steering Committee

12th March 2019

We acknowledge the Noongar people as Traditional Custodians of this land and pay our respects to all Elders past and present



PHCC

Peel-Harvey Catchment Council

Working Together

Business Arising

1. Mayfield

- Endorsement of weir at Alan Black's site
 - ✓ All approvals/agreements in place
 - ✓ Scheduled to be delivered Fri 22 Mar and installed by mid-April
- LVM as Preferred Supplier
 - ✓ Quote received for Miller's, Black's and Yundathana all within budget – approved and goods have been ordered for delivery next week

Business Arising

2. Peel Main Drain

- Future plans and liability
 - ✓ Agreement at meeting of 12/10/2018 that project lifespan would be extended to 2025, with Water Corporation to take on responsibility for weir and culverts
 - ✓ 2020-2025 Site Management Plan to be developed (PHCC)
 - ✓ Actual activities over and beyond 2020-2025 would depend on securing additional funding
 - ✓ Access and Liability Deed between Water Corporation and PHCC executed 13/11/2018. PHCC carries liability but DWER will pay for insurance.
- Approvals
 - ✓ Permission to install pending approval of final designs finalised with Water Corporation 5/11/2018

PMD Project: Extension

PHASE 1	PHASE 2	PHASE 3
To June 2020	July 2020 - June 2025	Beyond July 2025
Construction and trials Funded under REI	Site Management Plan Care and Maintenance Trials as funding becomes available	Further trials/operations or Decommissioning if no funding source identified

30 July 2018

Progress Update

**WA Regional Estuaries Initiative
Peel Main Drain Offline Water Treatment Trial
Feb 2019 - Swales Completed**



- ✓ Swales completed, including headworks
- ✓ Site visit by DWER/PHCC identified need for minor improvements to design – with contractor
- ✓ Security fencing to be installed asap.

- Second RFQ sent out 12/10/2018 – no conforming quotations received
- Approached J-Steel to prepare design – unsuccessful outcome
- Working with Vonmac Engineering SA who has designed and constructed numerous water control weirs like the PMD case.
- Additional soil geotech studies have been concluded and Vonmac compiling quotation for design to AS 2159 2009 as per Water Corporation guidance
- Pending suitability will progress to supply and install

Weir



Weir



Risks to Delivery:

- Diversion weir
 - No scope for further delays and setbacks in design/install processes.
 - Using experienced provider.
- Timeframes and additional costs for obtaining key Water Corporation approvals vs wet site conditions:
 - Diversion culverts
 - Weir (once designed) – includes review processes
 - Can we set up regular project meetings – engineer to engineer?

PMD Budget

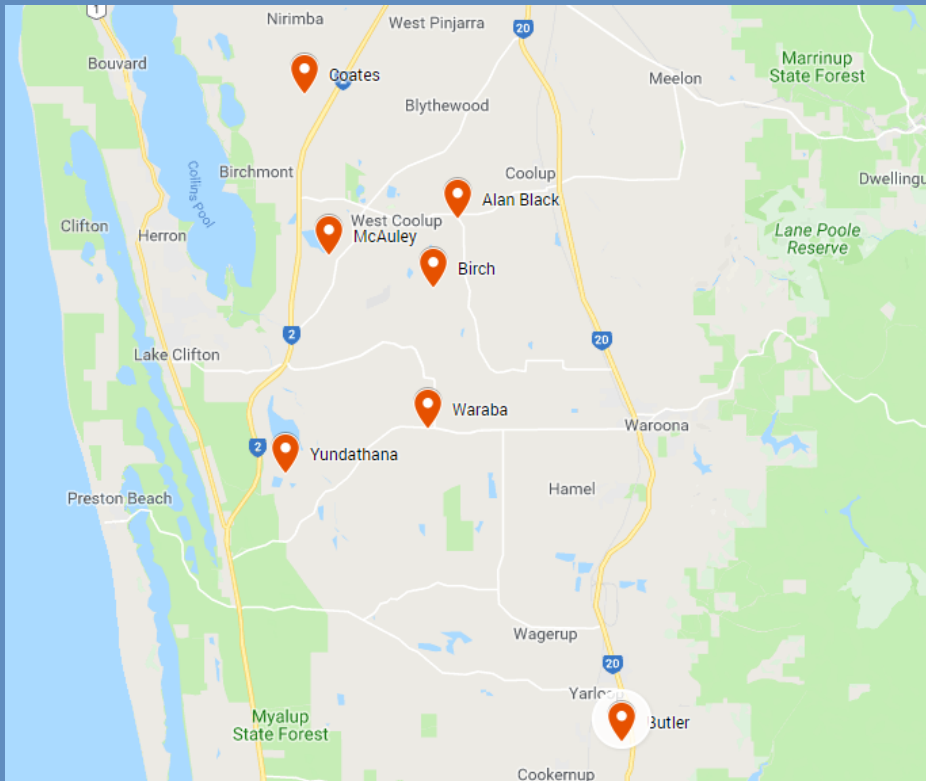
PEEL MAIN DRAIN		18/19 Budget	18/19 Committed/Spent	19/20
	Project Delivery	\$ 161,994	-\$ 40,499	\$ 152,812
	Onground Works			
	Swales & site access	\$ 627,014	-\$ 586,016	\$ 8,000
	Weir	\$ 185,000	-\$ 9,200	
	Monitoring & Investigation	DWER		
		\$ 974,008		\$ 160,812

- Project Delivery costs are considered to be fully allocated over the life of the project – will be reviewed prior to FY20
- Remaining 2018/19 & 19/20 swale budget for maintenance and minor modifications
- DWER currently leading review of monitoring requirements and budget



Mayfield Project

- Target: 'Up to 10 sites'
- 1 installed (Waraba)
- 4 approved/scheduled
- 2 in development (Butler & Birch)
- 2 sites assessed but found to be unsuitable (McAuley & Coates)
- 2-3 sites still required



2018 Performance - Waraba



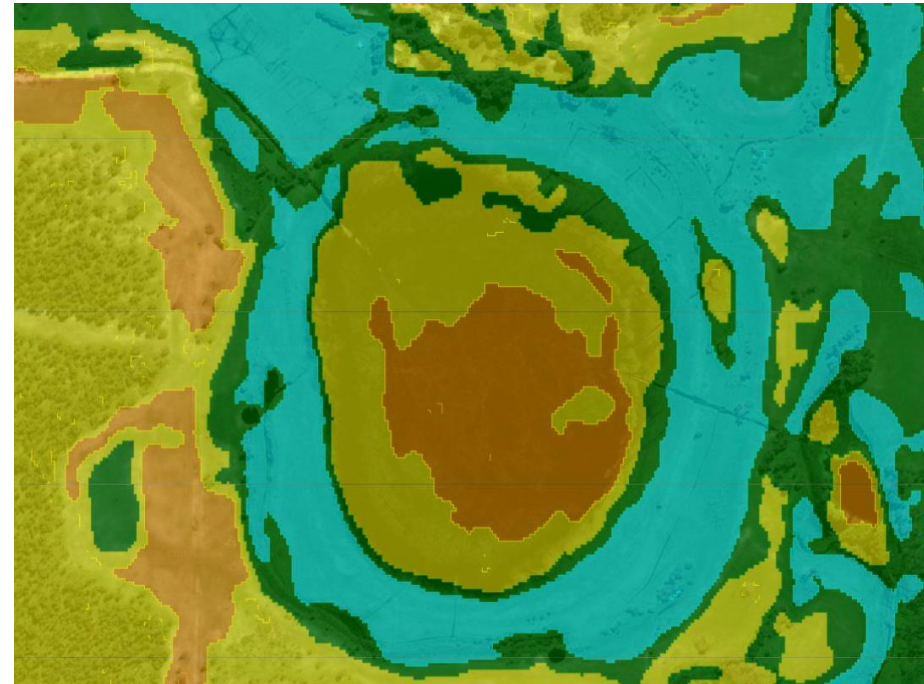
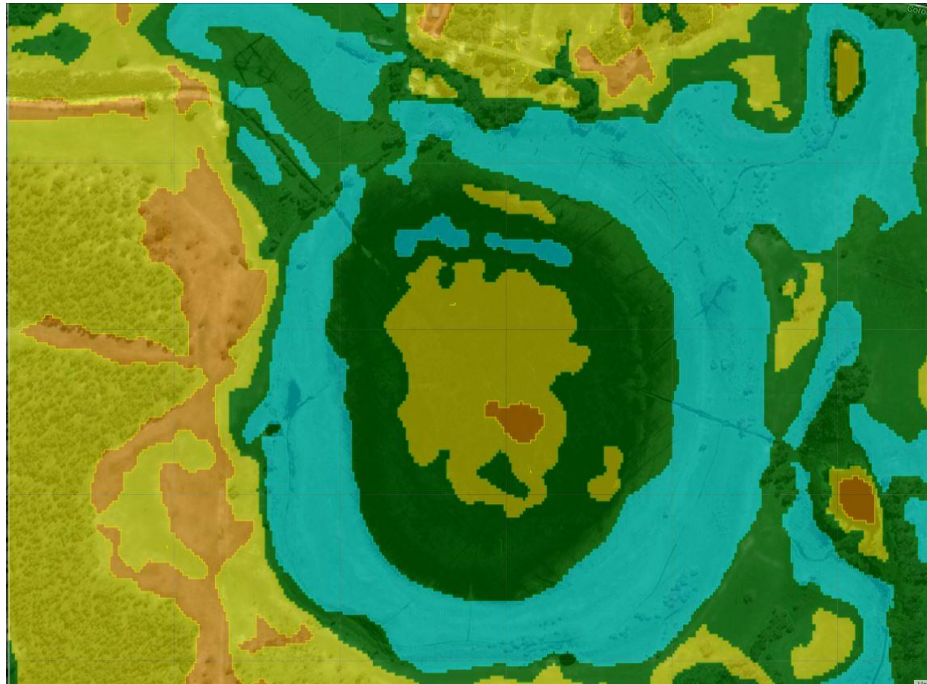


2018 Performance - Waraba

- Estimated 33 ML of water retained on site – 155 kg of N and 18.5 kg of P
- Lake water subsequently evaporated, resulting in 6-fold increase in salinity and TN over 2 months
- Farmer believed observable reduction in productivity around fringe; baseline soil testing confirmed high soil salinity
- Historical data shows this to be a long-standing issue but landowner wants management regime changed (same landowner as Yundathana site)

PRODUCTIVITY ZONE MAPS

2017 (L) & 2018 (R)



Risks to Delivery:

- Two more sites being sought (or more if simple/small)
 - Several sites have been previously assessed and considered to be 'last resort' (eg Mealup x 2 and Harvey) – contingency
 - PHCC pushing additional media avenues – Shires and state-wide publications
 - Other suggestions/offers?
- Statutory approvals and landowner agreements
 - Landowner's baulking at taking on full liability and risks
 - Tight timeframes – prioritisation of DWER & WCORP for timely approvals
- Possible adverse outcomes
 - 'Waraba' and salinity/waterlogging issue – adaptively manage and treat as 'learning experience' for future guidelines

Mayfield Budget

MAYFIELD		18/19 Budget	18/19 Committed/Spent	19/20	REMAINING
Budget remaining at 30/2/2019					
	Project Delivery	\$ 116,861		\$ 109,045	
	Onground Works (Total)	\$ 298,568	-\$ 233,568	\$ 60,000	\$ 125,000
	Monitoring & Investigation	\$ 11,303	-\$ 2,826	\$ 8,128	\$ 16,605
		\$ 426,732		\$ 177,173	\$ 141,605

- Project Delivery costs are considered to be fully allocated over the life of the project – will be reviewed prior to FY20
- Remaining 2018/19 & 19/20 on-ground funds for 2 more weirs
- Remaining monitoring funds will be spent with approaching winter