



REI Steering Committee

2nd October 2018

*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**

Agenda

WETLANDS AND WATERWAYS

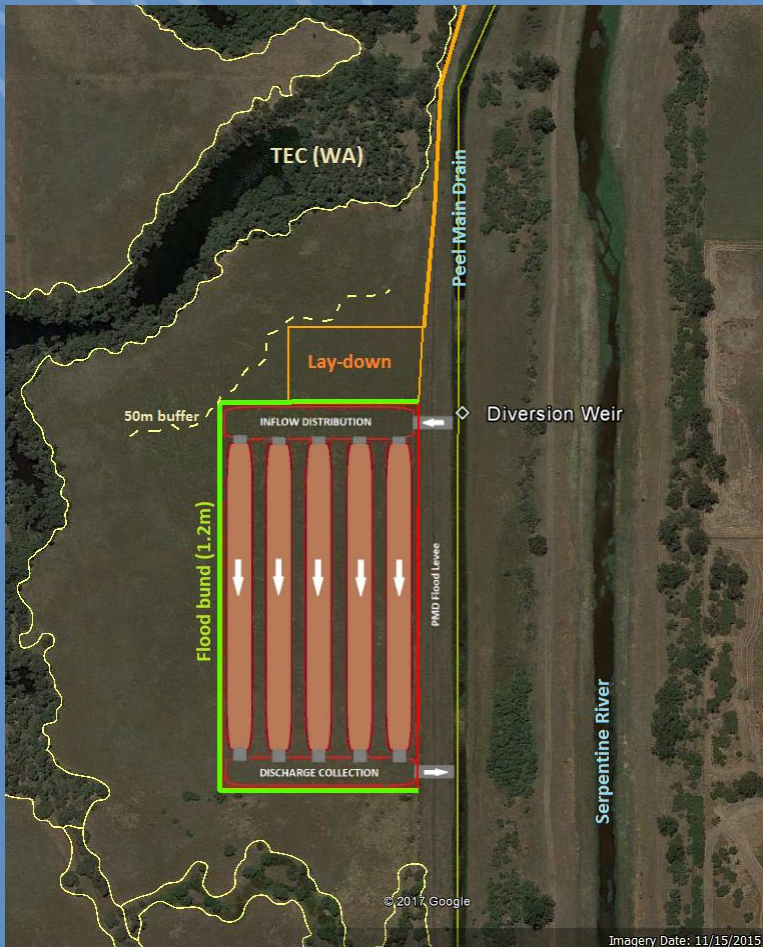
PMD Project – Status Update



30 July 2018

To date:

- ✓ Access completed (requires final repair and trim)
- ✓ Swales have been cut, with material stockpiled between the swales
- ✓ Concrete pipes and culverts have been delivered to site

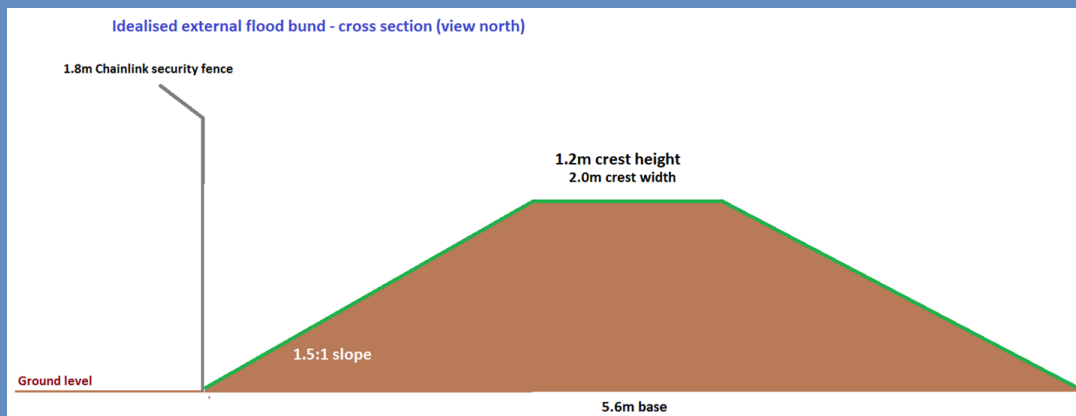




WETLANDS AND WATERWAYS

Next:

- ✓ Construct external floodwall with surplus material and fence
- ✓ Install headworks and diversion pipes
- ✓ Grade and trim swales
- ✓ 2-3 weeks work, once site dry enough
- ✓ RFQ for sheet-pile weir (design construct and poss decommission) issued 25/9; closes 12/10 – requires Water Corp approval to construct





Critical Points

1. Water Corp Approvals

- 3 approvals required
- All drafts provided to date have named PHCC as sole second party and seek to indemnify Water Corporation

Trial results:

Raw test of natural swales as SRP-removal mechanism

Large capacity inflow and outflow pumps were hired (80-100L/s) to test a single swale – approximate design flow rate; no flow controls in place along swale. 3-day trial

Problems encountered balancing the inflow and outflow pumping rates to maximise contact between water and clay but not cause scouring – not overcome during trial

Quite a consistent 20% decrease in SRP concentrations – seemed to occur over the bottom half of the swale

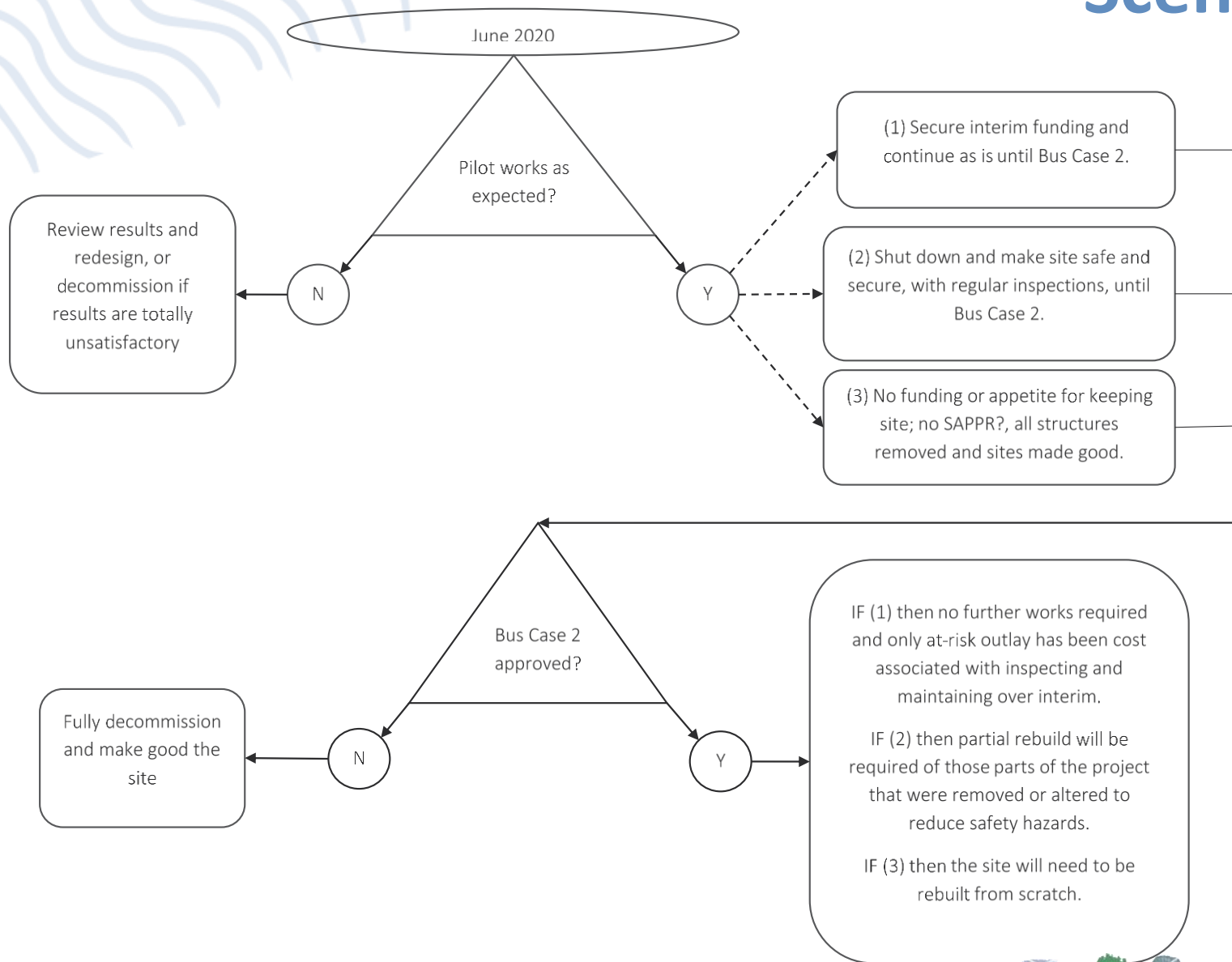
Increase in TSS (500%) also appeared to slightly increase TP & TN, as well as Fe and Al

Flow controls in swales and creation of settling pool at the lower end will improve overall performance

Future liability

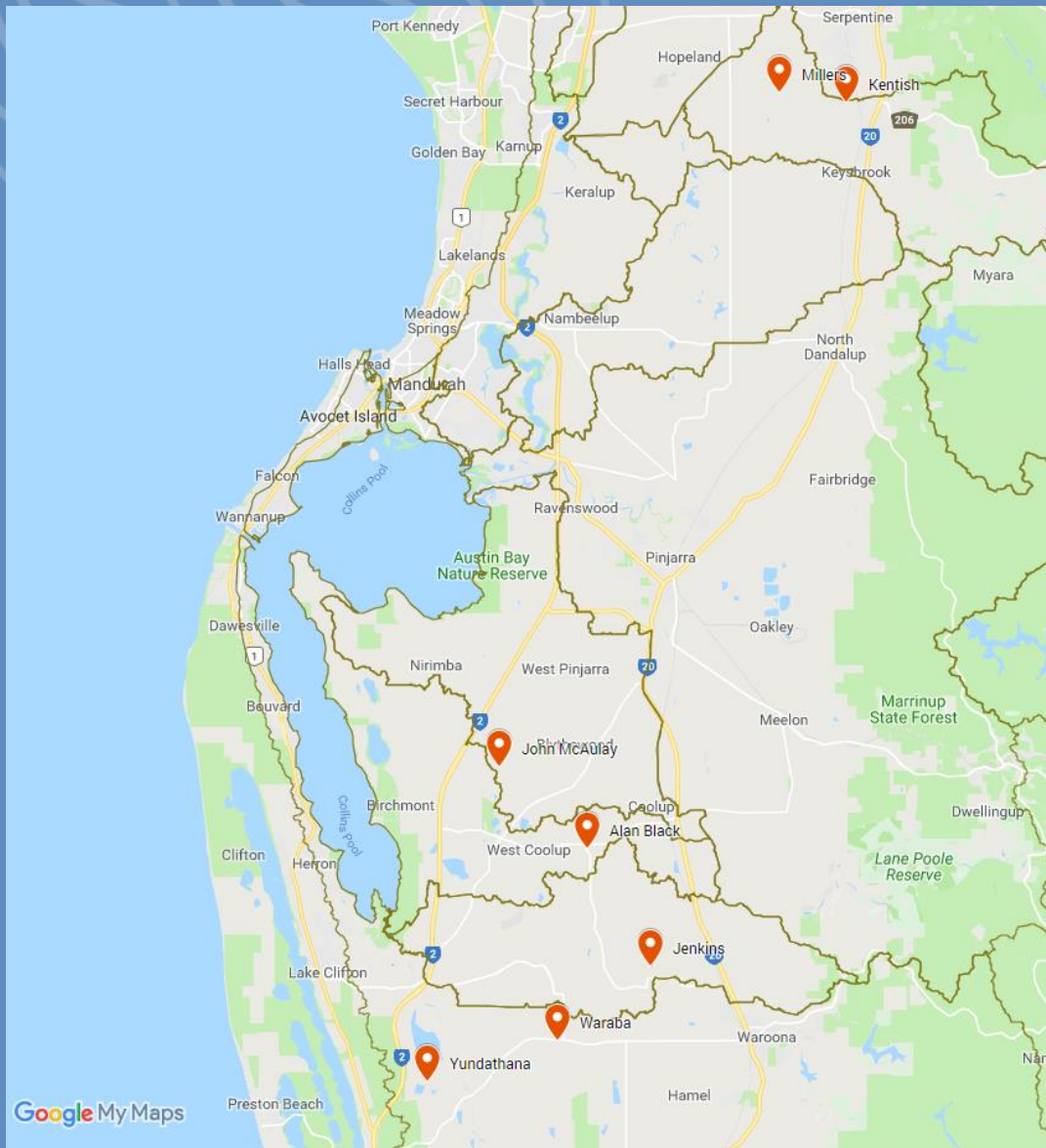
- Fate of built structures beyond June 2020 is currently being questioned by DWER/Water Corp:
 - *DWER/Water Corp say no funding or business case for maintaining the site in long term – refer to draft minutes from 14 Sep meeting*
 - *Project Plan does not include decommissioning, so has not been budgeted for(\$50K – \$120K)*
 - *Water Corporation approvals for PMD currently have PHCC taking responsibility for project*
- Next meeting with DWER and Water Corporation Fri 12 Oct

Scenarios



Budget

PEEL MAIN DRAIN		18/19 Budget	18/19 Spend	19/20	20/21	SUM
6-5211	Employment	\$ 121,895	-\$ 30,474	\$ 114,370	\$ 20,154	\$ 225,945
6-5212	Vehicle	\$ 11,839	-\$ 2,960	\$ 11,838	\$ 5,647	\$ 26,364
6-5240	Onground Works (Total)	\$ 788,088	-\$ 283,057			
	<i>Committed On-grounds (Swales)</i>		-\$ 311,176			
	<i>Estimated on-ground (weir)</i>		-\$ 190,000			
6-5251	Project Management	\$ 13,260	-\$ 3,315	\$ 12,605	\$ 1,300	\$ 23,850
6-5254	Corporate	\$ 13,000	-\$ 3,250	\$ 13,000	\$ 3,085	\$ 25,835
		\$ 948,082	-\$ 824,232	\$ 151,813	\$ 30,186	
Remaining (est)	\$ 305,849					
Delivery only	\$ 301,994					



Mayfield Project

- 7 sites on books and 1 prospective (need 1-2 more):
- 5 new sites:
 - 1 installed
 - 2 designs waiting approval
 - 2 designs in dev
- 2 repairs to non-functional existing weirs
 - Ad hoc repairs
 - No approvals req'd

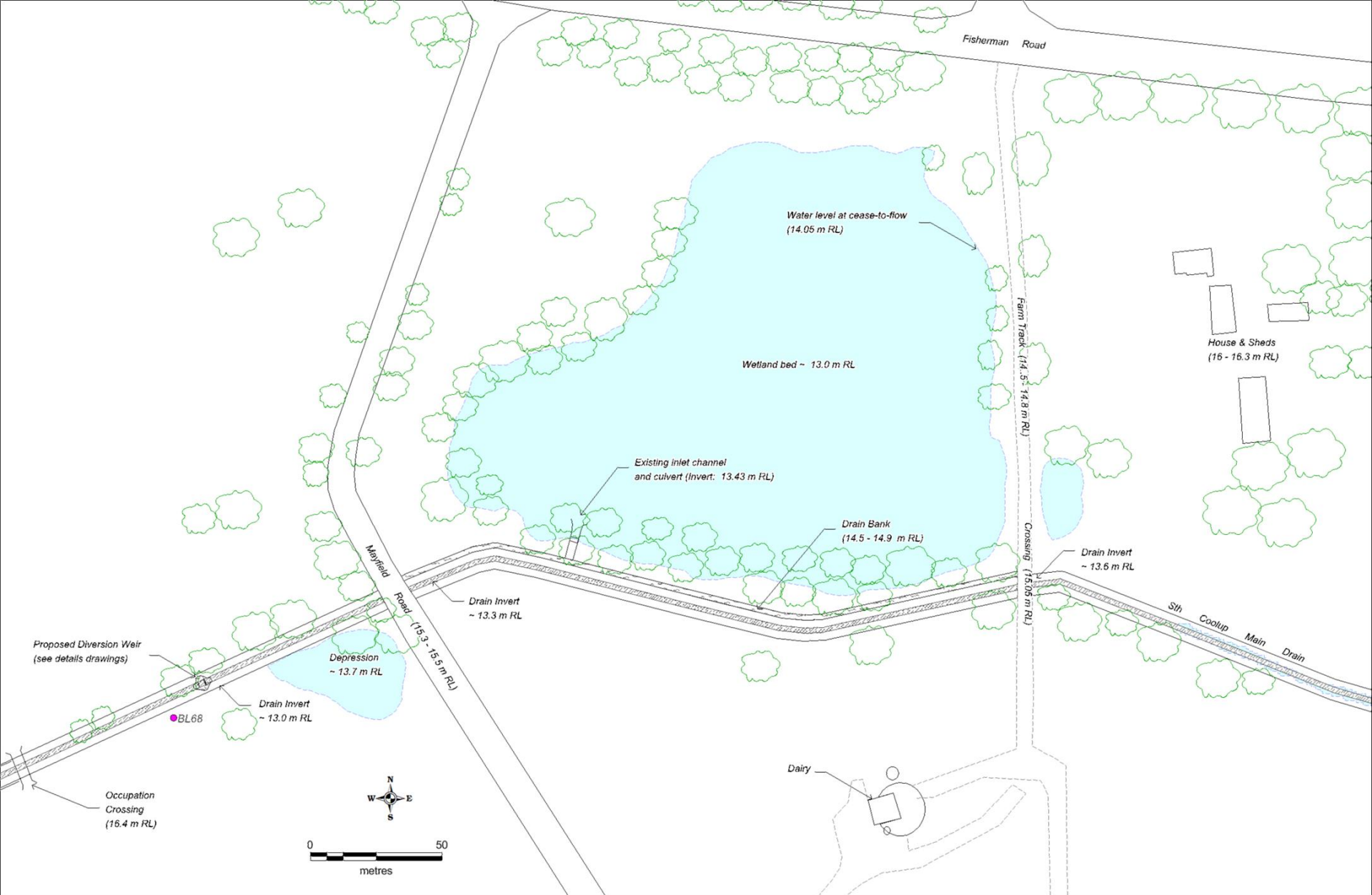
Mayfield Budget

MAYFIELD		18/19 Budget	18/19 Spend	19/20	20/21	REMAINING
Budget remaining at 30/9/2018						
6-5111	Employment	\$ 87,686	-\$ 21,922	\$ 70,480	\$ 8,378	\$ 144,623
6-5112	Vehicle	\$ 7,872	-\$ 1,968	\$ 7,500	\$ 1,500	\$ 14,904
6-5121	Consultants	\$ 30,979	-\$ 12,000			\$ 18,979
6-5131	WQ Monitoring	\$ 24,022		\$ 20,000		\$ 44,022
6-5132	Events	\$ 1,800		\$ 1,200		\$ 3,000
6-5140	On-grounds (total)	\$ 323,140	-\$ 28,505			
	<i>Committed (4 NEW SITES, 2 REPAIRS)</i>		-\$ 195,000			
6-5151	Project Management	\$ 11,303	-\$ 2,826	\$ 8,128	\$ 925	\$ 17,530
6-5152	Corporate	\$ 10,000	-\$ 2,500	\$ 10,000	\$ 2,134	\$ 19,634
Remaining (est)	\$ 362,327	\$ 496,803	-\$ 264,720	\$ 117,308	\$12,937	
Ongrounds	\$ 99,635					
Delivery only	\$ 262,692					

Site 4: Alan Black Sth Coolup MD



WETLANDS + WATERWAYS





Site 4: Alan Black Sth Coolup MD

- Refer to Briefing Note for further details
- Endorsement of site to proceed to approval and construction stage is sought
- Benefits in constructing at same time as Yundathana (WC approvals not-withstanding)

Preferred Supplier:

- Please refer to Briefing Note
- Preferred Supplier status is sought for AACPS/LVM for construction of next two weirs (to ~\$80,000)
- Recommendation for Preferred Supplier status based on price competitiveness of previous tender and commitment towards objective of optimising design and price
- Review at end