## Defence Cultana Expansion Area (CEA) Environmental reporting: MLDP Reporting year 2

Report type year 4 (1st 4th year period)

Reporting year 2016 (July) to 2018 (to June) (2 year period)

Report collation Dept of Defence, SA Environment & Sustainability Team

Report date 15/10/2018

This report has been prepared to fulfill environmental reporting requirements by the Department of Defence (Lessee) as specified in the Miscellaneous Lease for Defence Purposes (MLDP) No. 53500 (20th June 2014).

The MLDP requires a report be provided in writing to the Minister in relation to its performance against the Environmental Management Framework every second and fourth year within every five (5) year period. Department of Defence has developed an Environmental Management Framework and this report represents the second year report within the second five (5) year period against the Cultana Environmental Management System: (2) Environmental Management Plan (EMP) (2015). The EMP includes a Sustainability, Monitoring and Reporting of all such key sustainability measures into a single snapshot of how Cultana is performing against standards and thresholds established in the EMP. The table below captures this required information.

Reporting theme	Reporing sub-theme	Reporting criteria	Defence Respose	Information Source
L. Soils				Source
			Photopoint monitoring by AECOM (2016) of 97 photopoint sites documented 'Soil erosion status' as part of a Site Condition Estimate. 39 sites were rated Excellent, 52 were rated Good, four (4) were Fair and two (2) were Poor. In addition, 'Erosion' at the 97 photopoints was documented as 32 sites with 'No erosion', 51 sites showed 'Slight	Defence incident manageme system and EMOS LM reporting.
a. Erosion			erosion' (predominantly natural from wind), 10 showed 'Minor erosion' and four (4) showed 'Moderate erosion'. At this time is was considered difficult to determine from this data whether Defence land use is causing trends in data (AECOM, 2016). However, trends showed a clear improvement in the condition of all photopoint sites, likely indicative of destocking the area.	Photopoint Monitoring Cultana Training Area Expansion, April 2016 (AECOM, 2017)
b. Rehabilitation			Nil priority dams (0 ha) were closed or were under rehabilitation during the reporting period. 91 dams are pending rehabilitation.  Planning is underway to rehabilitate/decommission farm dams across Cultana in a staged approach, to be delivered in three prioritised stages. 91 dams have been assessed by AECOM in 2017, with Priority 1 dams to be decommissioned according to specifications prepared by AECOM (2018). The Project to deliver these works was released in August 2017.	Dam closure report and EMO rehabilitation reporting.
b. Reliabilitation		Number of fendamitation site works undertaken	2017.	renabilitation reporting.
		L	I.	1
2. Biodiversity				
•				
			42 transects triggered Bluebush density thresholds.	Jessup survey
			10 transects triggered Saltbush density thresholds.	Photopoint Monitoring
			59 transects triggered perennial shrubs thresholds.	Cultana Training Area
	Density		In majority of all cases thresholds were triggered as transects had an increase in shrubs. It	
a. Vegetation	(Saltbush, Bluebush and perennial shrubs)		has been recommended that the thresholds set in the EMP are reviewed.	(AECOM, 2017)
	(	Number of threshold exceptions based on reactive step-		,,
	Cover	point transects	No step-point transect data collected during this reporting period.	Nil
		· · · · · · · · · · · · · · · · · · ·	Seven (7) TACs currently in place within the CEA, based on regeneration, conservation or	
			weed management requirements.	
			This does not include TACs that are permanent environmental offset areas or heritage	
		Number of temporary area closures (TACs)	areas.	TASO RA map
			Nil rest areas currently in place within the CEA.	TASO NA IIIap
		Number of rest areas	Rather these have been captured as TACs, and included above.	TASO RA map
		Nullibel of lest aleas	Nather these have been captured as TACS, and included above.	Jessup survey
	Condition		Juvenile to Adult ratio was assessed in 2016 (AECOM, 2017), indicating large variation in the ratio across transects, from sites where few juveniles were recorded to sites where young recruits outnumbered adults. It was determined that few conclusions could be drawn (AECOM, 2017).	Photopoint Monitoring Cultana Training Area Expansion, April 2016 (AECOM, 2017)
	Condition	Change in Juvenile . addit ratio (noin Jessup transects)	GIGWII (ALCOIVI, 2017).	Photopoint Monitoring
			No low shooting on mature plants data collected during this reporting period (AECOM,	Cultana Training Area Expansion, April 2016
	Condition	plans (greater than 30cm above ground)	2017).	(AECOM, 2017)
		Number of sites recorded with recruitment of key		Photopoint Monitoring Cultana Training Area Expansion, April 2016
	Condition	•	No recruitment data collected during this reporting period (AECOM, 2017).	(AECOM, 2017)
				Photopoint Monitoring
		I .	I and the second	
				Cultana Training Area
				Cultana Training Area Expansion, April 2016

		Number of incidents involving damage in flora and		Defence incident management
b. Protection of biodiversity		fauna	Nil incidents related to flora and fauna damage notified during the reporting period.	system
3. Biosecurity and Over Abundant nativ Species (BONS)	e e e e e e e e e e e e e e e e e e e			
a. Pest animals				
				Feral Animal Control Reports
	Goats	Number of goats removed	1609 goats removed during the reporting period.	FY16/17 to FY17/18
		population distribution change over 2 year reporting	No change in site goat population distribution as no new locations identified (total 5	Feral Animal Control Reports
		period	locations) and regular control taking place.	FY16/17 to FY17/18
			от том том том том том том том том том т	,
			691 goats were removed during the reporting period, spread across the reporting period	Feral Animal Survey Reports
		Number of goat incursion events at Gilmore well	with removals occurring on 10 different occasions.	FY16/17 to FY17/18
			861 goats were removed during the reporting period, spread across the reporting period	
			with removals occurring on 11 different occasions. Of this total:	
			691 were removed from Gilmore Well	Feral Animal Survey Reports
		Number of goat incursion events at water points	170 were removed from Darling Dam	FY16/17 to FY17/18
				Forel Animal Cumusu Donouts
	Rabbits	population distribution change over 3 reporting period	No change in site rabbit population distribution as no new locations identified.	Feral Animal Survey Reports FY16/17 to FY17/18
b. Weeds		period	The state of the s	7, == 12 : 12 / 20
			Two (2) new carrion flower infestations (extent yet to be calculated) identified and nil	
			infestations treated (0 ha) over this reporting period.	Weed Distribution Surveys and
			A total of 10 known populations recorded and total extent of infestations at least 47.95 ha in 2016.	Specific Control Reports Carrion Flower Survey Cultana
		Number / size of new infestations and infestation	Extent has been shown to fluctuate over time and currently unable to be conclusively	Training Area - East (AECOM,
	Carrion flower	treated	explained. (AECOM, 2017)	2017).
		Number / size of new infestations and infestation	Nil new African boxthorn infestations (0 ha) identified and nil infestations (0 ha) treated	Weed Distribution Surveys and
	African Boxthorn	treated	over the reporting period.	Specific Control Reports
		Number / size of new infestations and infestation	Nil new opuntiod cacti infestations (0 ha) identified and nil infestations (0 ha) treated ove	Weed Distribution Surveys and
	Opuntioid cacti	treated	the reporting period.	Specific Control Reports
		Number / size of new infestations and infestation	Nil new prickly acacia infestations (0 ha) identified and nil infestations (0 ha) treated over	· ·
	Prickly Acacia	treated	the reporting period.	Specific Control Reports
		Number / size of new infestations and infestation	Nil new athel pine infestations (0 ha) identified and nil infestations (0 ha) treated over the	Weed Distribution Surveys and
	Athel pine	treated	reporting period.	Specific Control Reports
		Number / size of new infestations and infestation	Nil new buffel grass (0 ha) identified and nil infestations (0 ha) treated over the reporting	
c. Over abundant native animals	Buffel grass Native animals	treated	period.	Specific Control Reports
c. Over abandant native animals	Nutre annual			
			Lethal control actions did not exceed DEW aerial transect density during the reporting	DEW kangaroo aerial density
			period.	reports FY16/17 to FY17/18.
	<u> </u>		Data on total numbers of kangaroos controlled to be obtained from the Kangaroo	Kangaroo control reports
	Kangaroo	Number of kangaroos lethally controlled	Management Officer (DEW).	FY16/17 to FY17/18.
4. Bushfire	1			
			One (1) site (DFSW Range, Sector B) was burnt more than once in the 5-year reporting	
			period. This site was burnt five (5) times. Fire size ranged from 1ha, 200ha, 200ha, 600ha,	
	Modification of vegetation through repeated burning	2013 to Jun 2018)	200h over the period .	,
		Area of site burnt at least once in this 5 year period and the previous 5 years period	One (1) site was burnt (200 ha) during both reporting periods in Sector F.	TASMIS
	Fire frequency and size	Number of fires reported	Six (6) fires were notified during the reporting period.	TASMIS
		Number of fires greater than 100ha	Five (5) fires greater than 100ha were notified during the reporting period.	TASMIS
F. Dallarian				
5. Pollution				+
		Number of Defence activity noise / vibration complaints	;	DOTAM and Defence incident
a. Noise and vibration		received	Nil complaints received during the reporting period.	management system
		L		DOTAM and Defence incident
		Threshold exceptions and actions	Nil.	management system
		Number of cases of verified structural damage / other		DOTAM and Defence incident
		impacts from Defence activity noise / vibration	Nil verified cases known during the reporting period.	management system
	•	,	, Or	, , , , , , , , , , , , , , , , , , , ,

	Number of Defense estitite light well-stick expensions		DOTAM and Defence incident
	Number of Defence activity light pollution complaints		
b. Light	received	Nil complaints received during the reporting period.	management system
			DOTAM and Defence incident
	Through old accounting and actions	N.:I	
	Threshold exceptions and actions	NII.	management system
	Number of Defence activity dust complaints received		DOTAM and Defence incident
- Don't		NO	
C. Dust	that had civilian health impacts	Nil complaints received during the reporting period.	management system
	Number of Defense and the death and delete and the		DOTAMA and Defense incident
	Number of Defence activity dust complaints received	L.,	DOTAM and Defence incident
	where dust obscured Highway	Nil complaints received during the reporting period.	management system
			207114 12 6
			DOTAM and Defence incident
	Threshold exceptions and actions	Nil.	management system
	Number of incident reports involving discharge to the		DOTAM and Defence incident
d. Pollution prevention	environment	Nil.	management system
6. water			1 . 19
			water quality monitoring
a. Water quality	Change in water quality at monitoring	Nil water quality monitoring data collected during the reporting period.	report
			water quality monitoring
	Change in water quality at sensitive receptor	Nil water quality monitoring data collected during this reporting period.	report
	Number of notified occurrence of discharge to aquatic		Defence incident management
b. Discharge	or marine system	Nil notified occurrences of discharge during the reporting period.	system
7. Heritage			
	Number of known aboriginal sites damaged during th		Defence incident management
a. Damage	reporting period	Nil notified occurrences of site damage during the reporting period.	system