

Desert Asset Register_Asset descriptions

Asset number	Asset name	Description	Current condition	Community and Social values	Environmental values	Economic values	Threats	Other
D001	Carnarvon Range including Lake Kerryln	Sandstone outcrops, freshwater springs and pools	Good to excellent	Very high cultural value	Threatened species (plants and animals), endemic species, high density of species niches	Possible future mining	Weeds (Buffel), inappropriate fire regimes, potential mining, tourism (poorly managed), feral animals (bees, predators)	
D002	Jilukurru (Durba Springs)	Permanent waterhole; refugia	Good	Very important men's cultural site for traditional owners. Closed to public	Nationally significant wetlands	Tourist location (despite closure)	Tourism (poorly managed), feral animals (herbivores, European bees) weeds	
D003	Mungarlu (Constance Headland)	Sandstone Range with natural water sources	Very good	High tourism value (ecotourism), high cultural value from historical/mythological point of view.	Exceptional fauna refuge in the arid desert. Water source and diverse flora habitats, threatened species identified	Tourism	Weeds, tourism, fire, climate change	
D005	Savory Creek - Entire	Inland drainage system, (drainage to east), national list as Wild River	Good off pastoral, degraded on pastoral	Pastoral production (watering points)	Freshwater system and springs turning brackish leads to more saline-favouring waterbirds		Overgrazing (camels and unmanaged cattle), inappropriate fire on Groundwater Dependent Ecosystem vegetation, weeds	
D006	Lake Disappointment	Saline wetland with fringing Samphire shrublands	Good	High cultural value	Waterbirds, endemic plants, endemic reptiles, threatened species habitat, sand dune landscape	Mining potential, gypsum, camels (grazing, trampling)	Future mining development, Overgrazing and trampling (camels), inappropriate fire regimes	
D007	Bilby habitat	Threatened (nationally)	Varied	Traditional ecological knowledge	Nationally and state-listed as threatened iconic species		Feral animals (predation by cats, competition from rabbits) possibly inappropriate fire regimes	
D009	Kiwirrkurra	Threatened species 'hotspot'	Very good	Very high community and cultural values	Recorded location for Bilbies and Great Desert Skink	No mainstream economic values known	Feral predators and herbivores, altered fire regimes	Regular patch burning has maintained suitable habitat for threatened species
D010	Nyinmi/Jupiter Well	Threatened species 'hotspot' (Bilbies, Princess Parrot, Marsupial Moles) and high priority vegetation association (state)	Very good	Very high cultural values	Threatened species 'hotspot' (Bilbies, Princess Parrot, Marsupial Moles) and high priority vegetation association (state-listed)	Not known. Work to manage known environmental values will provide much needed economic participation opportunities for traditional owners and others	Feral predators and herbivores, altered fire regimes	Has been very well managed and is a 'productive' environment due to palaeodrainage habitat
D011	Officer Basin	Regional water resource				Water resource for mining industry (not agricultural)		John Simons can provide further info, such as the DOW allocation plan
D012	Long unburnt spinifex	Spinifex greater than 20yrs old. Habitat value for threatened and game species.	Good	Habitat for Martu, game species	Habitat for threatened and game species and species thought to be locally extinct eg. Mala (Rufous Hare-wallaby)	Carbon?	Lightning strike/large frequent bushfire	At risk from big lightning strike fires, becoming more important as are decreasing in extent, otherwise good - generally not threatened by weeds
D013	Mopoke Spinifex at Well 30	Unusual and possibly restricted distribution spinifex species	Fair	Jilkurrpa story. Habitat for game animals	Habitat for threatened species, intrinsic value as an unusual, limited extent species		Fire and weeds (Buffel grass)	

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D014	Black Flanked Rock Wallaby	Threatened mammal	Fair, trend is to decline	Traditional ecological knowledge, KJ Jigalong Ranges, DEC and BHP translocation project	Only one confirmed population in Little and Great Sandy Deserts - state - listed threatened species	Resource company interest	Feral predators (cat and fox), inappropriate fire regimes, weeds (possible simplification of habitat as a result of Buffel invasion)	
D015	Northern Quoll	Threatened mammal	Unknown; uncommon in desert	Traditional ecological knowledge	Nationally and state listed as threatened		Unknown - low in abundance, competition and predation	
D016	Great Desert Skink	Punmu population. State and nationally listed reptile	Good	Traditional ecological knowledge, main priority food species	State and nationally listed reptile		Feral predators, loss of habitat/degradation, large feral herbivores, changed fire regimes	Limited geographic range
D017	Karlamilyi (Rudall) River Catchment	Paleo River System, nationally significant wetlands, refugia for numerous species	Fair to degraded	Important country for traditional owners (mix up area)	Transition zone of 2 IBRA regions, diverse flora and fauna/habitat and geology, fire refuge areas, wetland refuge areas	Potential tourism, significant mineral resource	Mining (adjacent), weeds (Buffel grass, particularly along river system, tourism (poorly managed), overgrazing, feral predators, altered fire regimes	
D018	Canning Stock Route (watersources)	Wells and watersources on the Canning Stock Route	Varied - degraded to good (most are good)	Culturally important sites, historical value from indigenous and European view	Refuge for wetland plant species and migratory bird species	Tourism	Tourism, weeds (Buffel), loss of habitat (eg. overuse of firewood), unmanaged tourism (encroachment of camping areas on habitat, contamination of water), feral herbivore (camel)	
D019	Queen Victoria Spring and Yellow Sand Plain Nature Reserve	Nature reserves	Unknown				Fire, camels, potential uranium mining	
D020	Percival Lakes	Lake system, nationally significant wetlands, mound springs	Good	Significant cultural sites, historical - location of dump zone for rocket system (1960s)	Wetland refugia, permanent springs, flora communities around lakes	Mineral resource (oil and gas)	Altered fire regimes, feral camels (use and fouling of water), mining	
D021	Waterholes of Western Desert (Martu determination)	Waterholes	Varied - good to degraded	Culturally significant, traditional ecological knowledge	Refuge for wetland, plant species and migratory bird species, marsh priority species	Not known		Probably only 20% -30% have been groundtruthed
D022	Marsupial Mole (both species)	Threatened mammal, cryptic mammal	Unknown (too hard to monitor)	Traditional ecological knowledge	Threatened nationally and state-level		Predation by cats, possibly inappropriate fire regimes	
D024	Princess Parrot, Rainbow Bee-eater, Peregrine Falcon	Rare/threatened bird species	Unknown	Traditional ecological knowledge	Rare/threatened		Fire, feral predators, herbivores and bees, wetland/water source degradation	May be extinct in desert rangelands
D025	Remnant rock wallaby populations in desert (eg Lennard Bastion)	Genetically unique, nothing else like it in Australia	Declining		Genetically unique		Feral predators - foxes (especially since the cessation of the baiting program), dogs and cats; fire	Numbers were increasing but the baiting program was stopped. Won't be there in five yrs time if action not undertaken. Could get great outcomes for ~ \$10 000k, could even fence out whole of area for a ~\$200,000
D026	Mungilli Claypan	High value inlandd, aquatic zone - claypan	Very good	Campspot when full of water, tourism	Endemic flora, bird habitat when full, potential rare fauna habitat	Tourism (managed)	Unmanaged tourism, camels	
D027	Canning Basin Paleodrairge Channel	Remnant drainage channel of deserts	Good		Restricted species extant, mound spring, samphire communities high species richness, subterranean fauna, Groundwater Dependent Ecosystems	Water is potentially a pastoral asset	Potential mining, potential water abstraction, inappropriate fire regimes	

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D028	Desert Sheoak Woodlands	Woodlands of Tall <i>Allocasuarina</i> indicative of long unburnt habitats and high water tables	Varied - good to degraded		Uncommon vegetaton type in sea of spinifex and thus fire adapted environment	Craft wood but limited	Inappropriate (too frequent) fire regimes, feral herbivore (camel))	If in a 'woodland state', then in good condition
D029	Blue Hills Breakaway	Lateritic breakaway and stony scree plains	Good - excellent		Species rich, endemic plants new to science	Limited but possibly mining	Overgrazing (unmanaged cattle, camels), tourism	
D030	Ilgarari Creek Terminal Lake System	Freshwater and brackish Paleodrange System	Good		Endemic plants, water, births, threatened mammals (Bilby, Mulgara)	Limited	Overgrazing (unmanaged cattle, camels), unmanaged tourism (bushtrack in the west), possible mining for Gypsum, bees	
D031	Serpentine Lakes	Paleodrainage line, extensive salt-lake system	Very good to excellent	Major dreaming site	National biodiversity hotspot	Potential tourism	Camels, unauthorised access, climate change	
D032	Wanna Lakes	Sandhill and salt lake system with significant geological features and fresh water source	Very good	Major dreaming site, community camping area (shed tank)	Mallee fowl site, Southern Marsupial Mole site, freshwater (permanent) site		Feral animals (camels, foxes and cat)s, unauthorised access, weeds (Buffel grass)	
D033	Western Desert Taipan	New snake species	Very good	Biological inventory, dreaming stories, toxicology and anti-venom (for snake)	Mulgara - threatened species, Western Desert Taipan (new species)	Potential anti-venom development	Black market reptile trade	
D034	Greater Stick-nest Rat Nest	Known nest of threatened species	Very good to excellent; likely active	Scientific research	Threatened species site - species presumed extinct on Australian mainland		Feral predators, unauthorised access, mining	
D035	<i>Grevillea ilkurika</i>	New plant species, endemic to spinifex NTDA (?), known from two sites only	Excellent	Bush food, biological inventory	New plant species - conservation status unknown	Plant breeders, horticultural industry	Black market horticulture and poachers of seed plants	
D036	Unnamed breakaway #3	Threatened species potential habitat permanent fresh water	Very good	Dreaming story, major cultural site	Threatened species, potential habitat, freshwater source		Unauthorised access, introduced predators and herbivores (eg camels)	
D037	Lizzie Lightfoot and Ernest Favenc Range	Breakaways	Excellent	Many important rockholes and major dreaming sites	Potential habitat for threatened species, Black-footed Rock Wallaby, Western Desert Taipan, Mulara, Sand Hill Dunnart, Grevillea Ilkurika		Petroleum exploration, feral herbivores and predators	
D039	Neale Junction Nature Reserve	Nature reserve	Very good	Rockholes	Mulgara Bustards Stick nest Rat nests (old) threatened species and potential ecological communities		Unauthorised users, weeds (Buffel grass), feral animals, altered fire regimes, some anthropogenic disturbance (airstrip, etc)	
D040	Great Victoria Desert Nature Reserve	Nature Reserve declared in 1972. DEC management	Varied - Excellent to fair	Site of Tjuntjuntjara Reserve includes significant sites and zones	Range of habitats, soil types and geographic zones, biodiversity	Joint mangement with DEC, mineral sands	Mining, weeds (Buffel grass), community (human) impact	
D042	Lake Mackay	State Priority vegetation hotspot, high value inland wetland - Saltlake, nominated as a "High Conservation Value Aquatic Ecosystem".	Very good	High cultural value/mythological, high historical values from a history of Australian exploration perspective.	Highest concentration of water birds in arid Austraiia at certain times, rare flora, threatened species	Mining, potash, uranium	Climate change, mining, feral predators and herbivores (foxes, cats, camels, rabbits)	
D043	Night Parrot	Rare ground based bird	Believed to be extinct	Twitchers, mythological			Predators, fire	
D044	Ngaanyatjarra IPA	Natural and Cultural values of Ngaanyatjarra Lands	Fair	Very high	Threatened species, water sources (soaks, rockholes, springs)	Low mainstream economic values	Feral predators and herbivores, altered fire regimes	

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D052	Unnamed breakaway #2	Breakaways and sandplain	Very good	Major cultural site(s), camping area	Potential threatened species habitat, unknown botanical and vegetation values, water course		Unauthorised access, feral predators and herbivores (eg camels)	
D054	Freshwater Asset (Lake)	Flat rock catchment small freshwater lake Rockhole site	Pristine	Larger lake system is significant archeological site in zone. Between Serpentine and Wanna Lake zones	Nardoo present. Shield shrimp present. Micro environment with biodiversity	Rare species / ranger work	Mineral Sands exploration, unauthorised access, loss of knowledge	
D056	<i>Ptilopus blackii</i> and Priority and threatened fauna (birds)	Priortiy Flora and Priority/threatened Fauna	Excellent	Community species inventory	Princess Parrot, Grey Falcon, migratory birds		Feral predators	
D057	Known Mallee fowl site #1	Mallee fowl nest (active)	Excellent	Major dreaming story	Threatened species		Feral predators (cat)	
D058	Known Mallee fowl site #2	Live Mallee fowl individual	Very good	Dreaming story ? Mallee fowl food source	Known threatened species site	Food source	Feral predators, altered fire regimes	
D059	Known Mallee fowl site #3	Known Mallee hen nest site	Good but nest is currently unused	Rockholes	Known threatened species site	Food source	Feral predators, altered fire regimes	
D062	Permanent Water Source	Gravel break away area. Permanent, shaded water site. Creek off edge of rock elevated site	Pristine	Significant cultural site. Community knowledge industry	Biodiversity site permanent water source	Location for spinifex Range activities, site for future survey	Feral herbivores, loss of knowledge, petroleum exploration, unauthorised access	
Desktop 46	Lake Dora and Rudall River	Series of salt lakes, river and national park	Good	Culturally significant	Flora and fauna, water source	Mining	Mining	
Desktop 47	Kaalpi (Calvert Range)		Good	Cultural significance to the Martu people, tourism	Flora and fauna, black-flanked rock wallabies	Tourism	Tourism, fire, rubbish	
Desktop 49	Gibson Desert Gnamma Holes	Series of rock pools in the Gibson Desert		Culturally significant	Flora and fauna, water source		Feral animals (camels)	
Desktop 50	Lake Gruszka	Lake		Culturally significant	Flora and fauna, water source and refugia		Feral animals	