



Soil and Land Suitability Assessment for Irrigated Agriculture

Map 1 of 2 LAND RESOURCES of

KURNTURLPARA and part of WARUMUNGU **ABORIGINAL LAND TRUSTS**

For further information contact:

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Web: http://nrmaps.nt.gov.au Map Reference: Kurnturlpara-Warumungu-ALT Land-Resources Map-1

LAND UNIT DESCRIPTIONS

PLAINS Level plain with many ferruginous gravels on surface. Moderately deep, red, loam, 8P1 containing ferruginous fragments. Aristida contorta, Dactyloctenium radulans and

Sporobolus australasicus low open tussock grassland

Level to gently undulating plain with termitaria microrelief. Shallow, brown, loam grading to clay loam. Aristida inaequiglumis and Eriachne obtusa tall open tussock grassland with Corymbia aparrerinja isolated clumps of trees

Level plain. Shallow, brown, loamy sand grading to sandy loam. Eucalyptus victrix low open

Level plain with loose surface conditions. Deep, sand grading to red, massive, sandy loam. Aristida holathera, Aristida inaequiglumis and Chrysopogon fallax mid tussock grassland 8P3

Level plain with termitaria microrelief. Moderately deep, loamy sand grading to red, massive, 8P4 clay loam. Aristida hygrometrica, Chrysopogon fallax and Aristida holathera mid tussock

8P5 Level plains and low rises of quartz and limestone outcrops. Shallow, sandy loam, 8P6 containing many quartz and calcrete fragments. Eriachne obtusa, Aristida holathera and

Enneapogon purpurescens mid tussock grassland Level to gently undulating plain. Moderately deep, red, loamy sand grading to clay loam. 8P7 Corymbia terminalis, Hakea arborescens and Ventilago viminalis low open woodland

Level plain with termitaria microrelief. Deep, red, sandy loam grading to clay loam. 8P8 Corymbia terminalis and Eucalyptus victrix low open woodland

Level plain with termitaria microrelief. Deep, loamy sand grading to red, massive, clay loam. 8P9 Triodia schinzii and Paraneurachne muelleri tall hummock grassland

DRAINAGE SYSTEMS

Level plain, broad alluvial plain, with gilgai microrelief. Very deep, cracking, grey, clay. 10A1 Astrebla elymoides, Iseilema vaginiflorum and Polymeria longifolia mid tussock grassland

Drainage channel. Moderately deep, brown, massive, sand. Eucalyptus victrix, Atalaya 10D1 hemiglauca and Acacia elachantha low open woodland

INLAND WETLANDS

8P2

Closed drainage depression, with gilgai microrelief, subject to temporary inundation. Very 13S1

deep, cracking, grey, mottled, clay. Eulalia aurea tall tussock grassland Margin areas of drainage depression, with gilgai microrelief. Moderately deep, cracking, grey, clay. Aristida latifolia, Eulalia aurea and Iseilema vaginiflorum mid tussock grassland 13S2

Level plain, with many surface gravels. Very shallow, clay loam. Aristida contorta, Aristida 13S3 holathera and Fimbristylis dichotoma low tussock grassland

DOWNS PLAINS

14G2

Level plain with gilgai microrelief. Very deep, cracking, grey, clay, gypsum and sodic at 14G1 depth. Astrebla pectinata, Aristida latifolia mid open tussock grassland

> Level plain with no gilgai microrelief. Very deep, imperfectly drained, cracking, grey, clay. Iseilema vaginiflorum, Fimbristylis dichotoma and Chloris pectinata low open tussock grassland

Example of Land Unit Descriptions Landform description - Soil description PLÁINS Level plain with termitaria microrelief. Deep, loamy sand grading to red, massive, clay loam. Triodia schinzii and Paraneurachne muelleri tall hummock grassland

Land unit

Vegetation description

Map unit boundaries were derived using satellite imagery in association with digital elevation model, geological and topographic data. Landform, soil and vegetation field assessments conform to national standards and support mapping at a scale of 1:50 000. When assessing specific areas within the mapping it is recommended a site inspection be undertaken to establish unmapped variation and confirm mapping accuracy on the ground.

BIBLIOGRAPHIC REFERENCE:

Grealish G, Carnavas M, and Burley P. SOIL and LAND CAPABILITY ASSESSMENT for IRRIGATED AGRICULTURE on KURNTURLPARA and part of WARUMUNGU ABORIGINAL LAND TRUSTS Northern Territory July 2016 DLRM Technical Report 9/2016D

Land Assessment Branch, Rangelands Division, Department of Land Resource Management, Palmerston, Northern Territory.

TECHNICAL REFERENCES:

National Committee on Soil and Terrain (2009) AUSTRALIAN SOIL AND LAND SYURVEY FIELD HANDBOOK. 3rd Edition.

Isbell, RF (2002). THE AUSTRALIAN SOIL CLASSIFICATION. CSIRO Publishing, Melbourne.

Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003). AUSTRALIAN VEGETATION ATTRIBUTE MANUAL NATIONAL VEGETATION INFORMATION SYSTEM, VERSION 6.

Canberra, Australian Collaborative Land Evaluation Program. CSIRO Publishing, Melbourne.

Department of Environment and Heritage, Canberra.

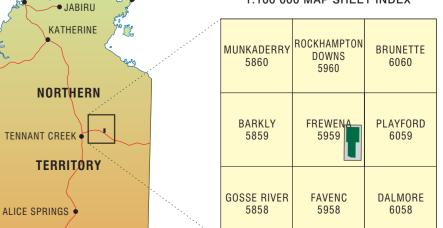
Map Title LAND RESOURCES of KURNTURLPARA and part of WARUMUNGU ABORIGINAL GENERAL LAND CAPABILITY of KURNTURLPARA and part of WARUMUNGU

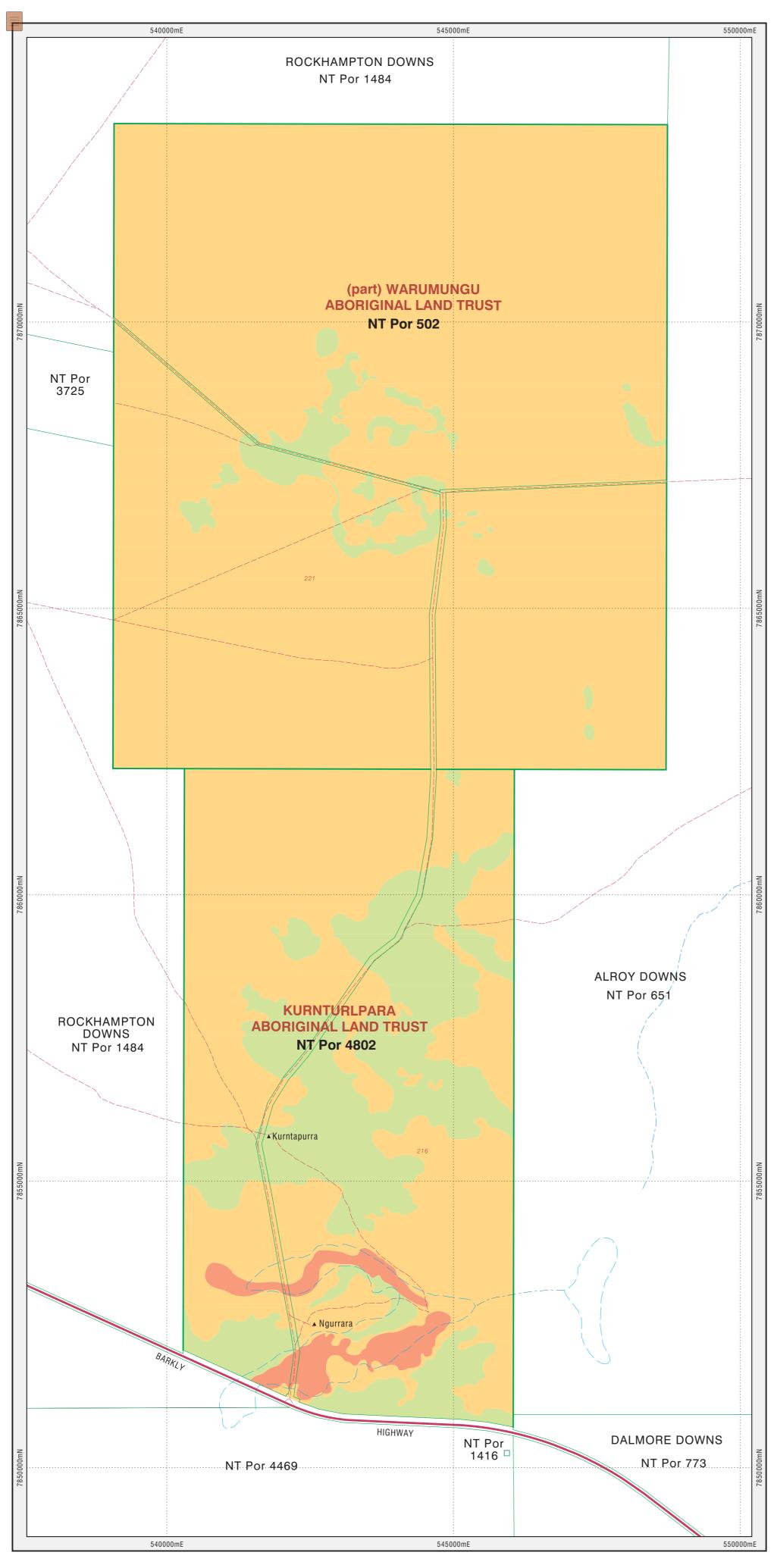
GENERAL FEATURES

Family Outstation	▲ Kurntapurra	Property boundary
Drainage line		Highway
Spot height (m AHD)	216	Local road / track

MAP LOCALITY

1:100 000 MAP SHEET INDEX







Soil and Land Suitability Assessment for Irrigated Agriculture Map 2 of 2

GENERAL LAND CAPABILITY of KURNTURLPARA and part of WARUMUNGU **ABORIGINAL LAND TRUSTS**

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Web: http://nrmaps.nt.gov.au Map Reference: Kurnturlpara-Warumungu-ALT_Land-Capability_Map-2

GENERAL LAND CAPABILITY

Class 1

HIGH - Land with minimal limitations. Highly productive requiring only low management practices. (Slope 0-1%; and rock outcrop - nil; and soil depth >1.0 m; and soil drainage - rapid or well; and no gilgai microrelief) 0 ha

Class 2

MODERATE - Land with only moderate limitations. Will require minor management practices. (Slope 1-3%; and/or rock outcrop - 0-2%; and/or soil depth 0.5 - 1.0 m; and/or soil drainage - moderate; and/or gilgai microrelief <0.3 m vertical interval and <20% of land surface) 2,492 ha

Class 3

management practices. (Slope 3-10%; and/or rock outcrop - 2-10%; and/or soil depth 0.25-0.5 m; and/or soil drainage - imperfect; and/or gilgai microrelief < 0.3 m vertical interval and > 20% of land surface) 14,448 ha NOT SUITABLE - Limitations cannot be overcome with practical and

MARGINAL - Land having severe limitations. Will require major

cost effective management practices. (Slope >10%; and/or rock outcrop - >10%; and/or soil depth <0.25 m; and/or soil drainage - poor or very poor; and/or gilgai microrelief > 0.3 m vertical interval and > 20% of land surface) 292 ha

Map unit boundaries were derived using satellite imagery in association with digital elevation model, geological and topographic data. Landform, soil and vegetation field assessments conform to national standards and support mapping at a scale of 1:50 000. When assessing specific areas within the mapping it is recommended a site inspection be undertaken to establish unmapped variation and confirm mapping accuracy on the ground.

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Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003). AUSTRALIAN VEGETATION ATTRIBUTE MANUAL NATIONAL VEGETATION INFORMATION SYSTEM, VERSION 6.

Department of Environment and Heritage, Canberra.

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	1	LAND RESOURCES of KURNTURLPARA and part of WARUMUNGU ABORIGINAL LAND TRUSTS
	2	GENERAL LAND CAPABILITY of KURNTURLPARA and part of WARUMUNGU ABORIGINAL LAND TRUSTS

Black numbered lines are 5000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)





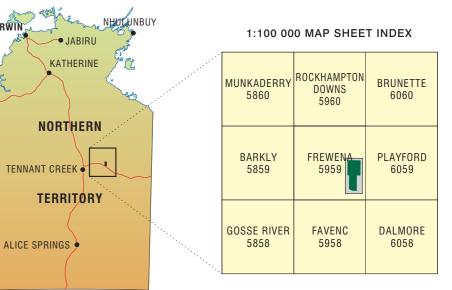
This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

Cartography by L. Fritz, Spatial Data and Mapping, Water Resources, Department of Land Resource Management, Northern Territory of Australia - May 2016

Updated by R. Lim, Geospatial Services, Dept. of Environment and Natural Resources - July 2017

GENERAL FEATURES				
 Property boundary	▲ Kurntapurra	Family Outstation		
— Highway		Drainage line		
 Local road / track	216	Spot height (m AHD)		

MAP LOCALITY



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