CAS **Project Name:** 

**Project Code:** CAS Site ID: **NT89** Observation ID: 1

**Agency Name: CSIRO Division of Soils (NT)** 

**Site Information** 

Desc. By: Date Desc.: Locality: Elevation: ON FLOODPLAIN OF HARRY CREEK W.H. Litchfield

18/07/61 720 metres

Map Ref.: Rainfall: Northing/Long.: 133.72805555556 Runoff: Slow Easting/Lat.: -23.274722222222 Drainage: No Data

**Geology** 

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

**Land Form** 

Rel/Slope Class: No Data Pattern Type: Flood plain Morph. Type: Elem. Type: Flat Relief: No Data No Data **Slope Category:** Level Aspect: No Data Slope: 0 %

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A **Principal Profile Form:** N/A **ASC Confidence: Great Soil Group:** N/A

Confidence level not specified

Site Disturbance:

**Vegetation:** 

Tall Strata - Shrub, , . \*Species includes - None Recorded

### **Surface Coarse Fragments:**

<b>Profile Mo</b>	rphology
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OHILE	Widi prididgy	
	0 - 0.4 m	Reddish brown (5YR4/4-Moist); ; Silty medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
	0.4 - 0.8 m	Reddish brown (5YR4/4-Moist); ; Silty medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
	0.8 - 1 m	Reddish yellow (7.5YR6/6-Moist); ; Silty clay loam; Single grain grade of structure; Very firm consistence; Clear change to -
	1 - 1.18 m	Reddish yellow (7.5YR6/6-Moist); ; Silty clay loam; Single grain grade of structure; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear change to -
	1.18 - 1.33 m	Brown (7.5YR5/4-Moist); ; Loam; Single grain grade of structure; Weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Sharp change to -
	1.33 - 1.41 m	Brown (7.5YR5/4-Moist); ; Loamy sand; Single grain grade of structure; Firm consistence; Very few (0 - $2$ %), Calcareous, , Soft segregations; Sharp change to -
	1.41 - 1.51 m	Light reddish brown (5YR6/4-Moist); ; Silty clay loam; Single grain grade of structure; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear change to -
	1.51 - 1.66 m	Reddish brown (5YR5/4-Moist); ; Silty clay loam; 5-10 mm, Angular blocky; Strong consistence; 20-50%, Sand, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations;
	1.91 - 2.21 m	Reddish brown (5YR5/4-Moist); ; Silty clay loam; 5-10 mm, Angular blocky; Strong consistence; 20-50%, Sand, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations;
	2.21 - 2.57 m	Reddish brown (5YR5/4-Moist); ; Silty clay loam; 5-10 mm, Angular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Sharp change to -
	2.57 - 2.62 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy medium clay; Strong consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;
	2.62 - 2.7 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; 10-20 mm, Angular blocky; Strong consistence;

Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Soft segregations;

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> Reddish brown (5YR5/4-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft 2.73 - 2.99 m

Reddish brown (5YR5/4-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft 2.99 - 3.24 m

segregations; Sharp change to -

Brown (7.5YR5/4-Moist); , 10YR53; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; 3.29 - 3.54 m

# **Morphological Notes**

KO1

KO2

K21

K22

K23

KM1

KM2

KM3 KM3

KM3

K31

K32

K33

K33

K34

#### **Observation Notes**

FREQUENT MICA THROUGH SAMPLE:

#### **Site Notes**

HARRY CREEK 1

Project Name: CAS
Project Code: CAS Site ID: N
Agency Name: CSIRO Division of Soils (NT) Site ID: NT89 Observation ID: 1

# **Laboratory Test Results:**

Depth	рН	1:5 EC Ca	Exchangeable Cations Mg K	s Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	g	Cmol (+)/kg			%
0 - 0.4	6.8H	0.04C					
0.4 - 0.8	7.3H	0.014C					
0.8 - 1	8.1H	0.015C					
1 - 1.18	8.1H	0.021C					
1.18 - 1.33	8.8H	0.043C					
1.33 - 1.41	9H	0.019C					
1.41 - 1.51	9.1H	0.027C					
1.51 - 1.66	9H	0.02C					
1.91 - 2.21	9H	0.027C					
2.21 - 2.57	9.1H	0.025C					
2.57 - 2.62	9.2H	0.025C					
2.62 - 2.7	9.2H	0.049C					
2.73 - 2.99	9.3H	0.077C					
2.99 - 3.24	9.3H	0.076C					
3.29 - 3.54	9.4H	0.08C					

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size A	Analysi: Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3	GV	03	%	Siit	Clay
0 - 0.4					0.054	В		5	13C	25	8	38
0.4 - 0.8					0.041	В						
0.8 - 1	0.010				0.029	В		1	8C	30	33	23
1 - 1.18	0.020								6C	35	41	13
1.18 - 1.33	1.5C	,			0.026	В		1	7C	43	39	4
1.33 - 1.41	0.070				0.01	3		1	33C	43	9	10
1.41 - 1.51	0.1C	,						2	20C	27	29	19
1.51 - 1.66	0.140				0.015	В		1	27C	21	15	30
1.91 - 2.21	0.150				0.018	В		1	16C	27	21	29
2.21 - 2.57	0.110							1	21C	27	15	31
2.57 - 2.62	0.810				0.01	3		1	48C	19	5	23
2.62 - 2.7	0.320							2	21C	22	11	40
2.73 - 2.99	2.1C	;						2	15C	24	13	42
2.99 - 3.24	0.140				0.012	B		1	13C	27	12	43
3.29 - 3.54	0.640							4	16C	18	14	46

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3						mm/h	mm/h	

0 - 0.4 0.4 - 0.8

0.4 - 0.8 0.8 - 1 1 - 1.18 1.18 - 1.33 1.33 - 1.41 1.41 - 1.51 1.51 - 1.66 1.91 - 2.21 2.21 - 2.57 2.57 - 2.62

Project Name: Project Code: Agency Name: CAS

CAS Site ID: NT89
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2.62 - 2.7 2.73 - 2.99 2.99 - 3.24 3.29 - 3.54

CAS **Project Name:** 

CAS Site ID: NT89 Observation ID: 1

Project Code: Agency Name: **CSIRO** Division of Soils (NT)

### **Laboratory Analyses Completed for this profile**

19B\_NR Calcium Carbonate (CaCO3) - Not recorded

2\_LOI Loss on Ignition (%) 2A1 Air-dry moisture content

Electrical conductivity or soluble salts - Total soluble salts % pH of soil - Not recorded
Water soluble Chloride - Cl(%) - Not recorded
Total nitrogen (%) - Not recorded

3A\_TSS 4\_NR

5\_NR

7\_NR

P10\_GRAV

P10\_NR\_C

Gravel (%)
Clay (%) - Not recorded
Coarse sand (%) - Not recorded P10\_NR\_CS P10\_NR\_FS P10\_NR\_Z Fine sand (%) - Not recorded Silt (%) - Not recorded