

DOMINANT SOIL PROFILE CLASS CHARACTERISTICS

Mapping Unit	Major Characteristics of Dominant Soil	Mapping Unit	Major Characteristics of Dominant Soil	Mapping Unit	Major Characteristics of Dominant Soil	Mapping Unit	Major Characteristics of Dominant Soil	Mapping Unit	Major Characteristics of Dominant Soil										
SOILS OF THE RECENT ALLUVIAL PLAINS CRACKING CLAYS WITH ALKALINE SUBSOILS			SOILS OF THE OLDER ALLUVIAL PLAINS SLIGHTLY GILGAIED CLAYS WITH ACID SUBSOILS PREDOMINANT			SOILS OF THE OLDER ALLUVIAL PLAINS (cont'd) STRONGLY GILGAIED CLAYS WITH ACID SUBSOILS PREDOMINANT			SOILS OF THE RELATIVELY HIGH LYING OLD ALLUVIA OVER BASALT (cont'd) CLAYS WITHOUT QUARTZ GRAVEL BEDS IN PROFILE			SOILS OF THE MINOR ALLUVIAL PLAIN CLAYS WITH MINIMAL CRACKING PREDOMINANT			SOILS OF THE GENTLY UNDULATING PLAINS ON DEEPLY WEATHERED BASALT SOILS WITH ALKALINE SUBSOILS				
1A9p-1	Dark grey cracking clay with alkaline brown clay subsoil.	2A9p-1p-1	Slightly gilgaied clay. Mound is grey non-cracking clay with acid to alkaline grey clay subsoil. Depression is dark cracking clay with acid grey clay subsoil. Mounds and depressions each occupy approximately 50% of the land surface. Vertical interval usually less than 25 cm. Gypsum usually present, mound and depression.	2A9p-1p-2	Very slightly gilgaied dark non-cracking and cracking clay with acid to neutral brown clay subsoil and acid brown clay D horizon below 100-140 cm. Vertical interval usually less than 15 cm. Gypsum usually absent.	2A9p-2	Brown non-cracking clay with acid to neutral brown clay subsoil and some dark and grey cracking clay depressions with acid brown clay subsoils. Depressions occupy 20-50% of the land surface. Vertical interval usually less than 25 cm. Gypsum usually absent.	2A9p-3	Strongly gilgaied dark and grey cracking clay. Mound has acid to neutral grey clay subsoil. Depression has acid to alkaline grey clay subsoil. Depressions occupy 10-25% of the land surface. Vertical interval 45-60 cm, wavelength 13-24 m. Carbonate and gypsum present in mound profile in small quantities, usually absent in depression profile.	1A9p-2	Slightly gilgaied clay. Mound is gravelly dark non-cracking clay with alkaline brown and grey clay subsoil overlying quartz gravel, weathered basalt or alkaline brown clay at 90-130 cm. Depression is dark cracking clay with acid to alkaline grey clay subsoil, or underlain by weathered basalt at 70-120 cm. Depressions occupy 20-50% of the land surface. Vertical interval usually less than 25 cm.	1A9p-3	Slightly gilgaied clay. Mound is gravelly dark cracking clay with acid to alkaline grey and olive clay subsoil. Depression is dark cracking clay with acid grey and olive clay subsoil. Depressions occupy 50-60% of the land surface. Vertical interval usually less than 25 cm.	1A9p-4	Dark brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline yellow clay subsoil. Linear and nuran gilgai present.	1A9p-1	Dark and brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline olive clay subsoil. Linear and nuran gilgai present.	1A9p-2	Deep dark cracking clay with alkaline olive brown (2.5Y) clay subsoil. Incipient or very slight gilgai common. Vertical interval less than 15 cm.
1A9p-2	Dark cracking clay with alkaline yellow-grey clay subsoil.	2A9p-1p-3	Brown non-cracking clay with acid to neutral brown clay subsoil and some dark and grey cracking clay depressions with acid brown clay subsoils. Depressions occupy 20-50% of the land surface. Vertical interval usually less than 25 cm. Gypsum usually absent.	2A9p-4	Dark cracking clay with acid brown subsoil.	2A9p-3	Strongly gilgaied grey cracking clay with acid grey clay subsoil. Depressions occupy 30% of the land surface. Vertical interval 50-65 cm, wavelength 15-16 m. Carbonate and gypsum present in some mound profiles but less frequently and in lesser quantities than in 2A9p-1 mound profiles. Carbonate and gypsum usually absent in depression profile.	2A9p-4	Strongly gilgaied grey cracking clay. Mound has acid to neutral grey clay subsoil. Depression has acid to alkaline grey clay subsoil. Depressions occupy 10-25% of the land surface. Vertical interval 45-60 cm, wavelength 13-24 m. Carbonate and gypsum present in mound profile in small quantities, usually absent in depression profile.	1A9p-5	Dark brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline yellow clay subsoil. Linear and nuran gilgai present.	1A9p-5	Dark brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline yellow clay subsoil. Linear and nuran gilgai present.	1A9p-3	Dark and brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline yellow clay subsoil. Linear and nuran gilgai present.	1A9p-3	Deep dark cracking clay with alkaline olive brown (2.5Y) clay subsoil. Incipient or very slight gilgai common. Vertical interval less than 15 cm.		
1A9p-3	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-4	Dark cracking clay with acid to neutral brown clay subsoil and acid brown clay D horizon below 100-140 cm. Vertical interval usually less than 15 cm. Gypsum usually absent.	2A9p-5	Dark cracking clay with acid brown subsoil.	2A9p-4	Strongly gilgaied grey cracking clay. Mound has neutral grey clay subsoil. Depression has alkaline grey clay subsoil. Depressions occupy 60-70% of the land surface. Vertical interval 30-75 cm.	2A9p-5	Dark cracking clay with acid brown subsoil.	1A9p-6	Gilgaied clay. Mound is gravelly brown non-cracking clay with alkaline brown and grey clay subsoil. Depression is brown cracking clay with acid brown brown clay subsoil. Depressions occupy 50-60% of the land surface. Vertical interval usually less than 25 cm.	1A9p-6	Gilgaied clay. Mound is gravelly brown non-cracking clay with alkaline brown and grey clay subsoil. Depression is brown cracking clay with acid brown brown clay subsoil. Depressions occupy 50-60% of the land surface. Vertical interval usually less than 25 cm.	1A9p-4	Dark brown non-cracking clay mound with alkaline brown clay subsoil and dark cracking clay depression with alkaline yellow clay subsoil. Linear and nuran gilgai present.	1A9p-4	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-4	Dark and grey cracking clay with alkaline brown clay subsoil and with alkaline brown clay-loam to medium-clay D horizon below 70-100 cm.	2A9p-1p-5	Dark cracking clay with acid brown subsoil.	2A9p-6	Grey cracking clay with acid to neutral yellow clay subsoil.	2A9p-5	Very slightly gilgaied grey cracking clay with acid to alkaline grey and brown clay subsoil. Mounds occupy 20-40% of the land surface. Vertical interval usually less than 15 cm.	2A9p-6	Grey cracking clay with acid to neutral yellow clay subsoil.	1A9p-7	Gilgaied clay. Mound is dark and brown non-cracking clay with acid to alkaline brown clay subsoil. Depression is dark and grey cracking clay with acid brown clay subsoil. Depressions occupy 30-50% of the land surface. Vertical interval 25-40 cm.	1A9p-7	Gilgaied clay. Mound is dark and brown non-cracking clay with acid to alkaline brown clay subsoil. Depression is dark and grey cracking clay with acid brown clay subsoil. Depressions occupy 30-50% of the land surface. Vertical interval 25-40 cm.	1A9p-5	Brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-5	Deep dark cracking clay with alkaline brown (10YR) clay subsoil.		
1A9p-5	Grey cracking clay with alkaline grey clay subsoil and with alkaline brown clay D horizon below 80-90 cm.	2A9p-1p-6	Slightly gilgaied cracking clay. Mound is dark cracking clay with alkaline dark and brown clay subsoil. Depression is dark cracking clay with acid to neutral grey and brown clay subsoil. Mounds and depressions each occupy approximately 50% of the land surface. Vertical interval usually less than 25 cm.	2A9p-7	Very slightly gilgaied grey cracking clay with acid to alkaline grey and brown clay subsoil. Mounds occupy 20-40% of the land surface. Vertical interval usually less than 15 cm.	2A9p-6	Grey cracking clay with acid to neutral yellow clay subsoil.	2A9p-7	Very slightly gilgaied grey cracking clay with acid to alkaline grey and brown clay subsoil. Mounds occupy 20-40% of the land surface. Vertical interval usually less than 15 cm.	1A9p-8	Dark, grey and brown cracking clay overlying quartz gravel bed, weathered country rock or acid to alkaline dark, grey and brown clay subsoil at 40-120 cm.	1A9p-8	Dark, grey and brown cracking clay overlying quartz gravel bed, weathered country rock or acid to alkaline dark, grey and brown clay subsoil at 40-120 cm.	1A9p-6	Brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-6	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-6	Dark cracking clay with alkaline grey clay subsoil and with alkaline brown clay-loam D horizon below 135-150 cm.	2A9p-1p-7	Very slightly gilgaied grey cracking clay with acid to alkaline grey and brown clay subsoil. Mounds occupy 20-40% of the land surface. Vertical interval usually less than 15 cm.	2A9p-8	Grey cracking clay with acid to neutral yellow clay subsoil.	2A9p-8	Grey cracking clay with acid to neutral yellow clay subsoil.	2A9p-8	Grey cracking clay with acid to neutral yellow clay subsoil.	1A9p-9	Dark, grey and brown cracking clay overlying quartz gravel bed, weathered country rock or acid to alkaline dark, grey and brown clay subsoil at 40-120 cm.	1A9p-9	Dark, grey and brown cracking clay overlying quartz gravel bed, weathered country rock or acid to alkaline dark, grey and brown clay subsoil at 40-120 cm.	1A9p-7	Brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-7	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
NEUTRAL DUPLEX SOIL WITH D HORIZON			2A9p-1p-7	Very slightly gilgaied grey cracking clay with acid to alkaline grey and brown clay subsoil. Mounds occupy 20-40% of the land surface. Vertical interval usually less than 15 cm.	2A9p-9	Slightly gilgaied cracking clay. Mound is grey and brown cracking clay with acid brown and yellow clay subsoil. Depression is grey cracking clay with acid grey and brown clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, sometimes up to 40 cm. Manganese usually present, mound and depression, below 80-130 cm.	2A9p-9	Slightly gilgaied cracking clay. Mound is grey and brown cracking clay with acid brown and yellow clay subsoil. Depression is grey cracking clay with acid grey and yellow clay subsoil. Depressions occupy 20-40% of the land surface. Vertical interval usually less than 25 cm, sometimes up to 50 cm. Manganese usually present, mound and depression, below 80-130 cm.	1A9p-10	Hard alkaline brown bleached duplex soil with 15-25 cm silty clay-loam surface soil, dark clay subsoil, and alkaline brown clay-loam D horizon below 130-140 cm.	1A9p-10	Hard alkaline brown bleached duplex soil with 15-25 cm silty clay-loam surface soil, dark clay subsoil, and alkaline brown clay-loam D horizon below 130-140 cm.	1A9p-8	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-8	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-8	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.	
1A9p-7	Dark cracking clay with alkaline yellow-grey clay subsoil.	2A9p-1p-8	Slightly gilgaied cracking clay. Mound is dark cracking clay with alkaline dark and brown clay subsoil. Depression is dark cracking clay with acid to neutral grey and brown clay subsoil. Mounds and depressions each occupy approximately 50% of the land surface. Vertical interval usually less than 25 cm.	2A9p-10	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-10	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-10	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	1A9p-11	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-11	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-9	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-9	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-8	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-9	Slightly gilgaied cracking clay. Mound is grey and brown cracking clay with acid brown and yellow clay subsoil. Depression is grey cracking clay with acid grey and yellow clay subsoil. Depressions occupy 20-40% of the land surface. Vertical interval usually less than 25 cm, sometimes up to 50 cm. Manganese usually present, mound and depression, below 80-130 cm.	2A9p-11	Brown cracking silty clay with alkaline brown silty clay subsoil.	2A9p-11	Brown cracking silty clay with alkaline brown silty clay subsoil.	2A9p-11	Brown cracking silty clay with alkaline brown silty clay subsoil.	1A9p-12	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-12	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-10	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-10	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-9	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-10	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-12	Dark cracking clay with acid brown clay subsoil.	2A9p-12	Dark cracking clay with acid brown clay subsoil.	2A9p-12	Dark cracking clay with acid brown clay subsoil.	1A9p-13	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-13	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-11	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-11	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-10	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-11	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-13	Dark cracking clay with acid brown clay subsoil.	2A9p-13	Dark cracking clay with acid brown clay subsoil.	2A9p-13	Dark cracking clay with acid brown clay subsoil.	1A9p-14	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-14	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-12	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-12	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-11	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-12	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-14	Dark cracking clay with acid brown clay subsoil.	2A9p-14	Dark cracking clay with acid brown clay subsoil.	2A9p-14	Dark cracking clay with acid brown clay subsoil.	1A9p-15	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-15	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-13	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-13	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-12	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-13	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-15	Dark cracking clay with acid brown clay subsoil.	2A9p-15	Dark cracking clay with acid brown clay subsoil.	2A9p-15	Dark cracking clay with acid brown clay subsoil.	1A9p-16	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-16	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-14	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-14	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-13	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-14	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-16	Dark cracking clay with acid brown clay subsoil.	2A9p-16	Dark cracking clay with acid brown clay subsoil.	2A9p-16	Dark cracking clay with acid brown clay subsoil.	1A9p-17	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-17	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-15	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-15	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-14	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-15	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-17	Dark cracking clay with acid brown clay subsoil.	2A9p-17	Dark cracking clay with acid brown clay subsoil.	2A9p-17	Dark cracking clay with acid brown clay subsoil.	1A9p-18	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-18	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-16	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-16	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-15	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-16	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-18	Dark cracking clay with acid brown clay subsoil.	2A9p-18	Dark cracking clay with acid brown clay subsoil.	2A9p-18	Dark cracking clay with acid brown clay subsoil.	1A9p-19	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-19	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-17	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-17	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-16	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-17	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-19	Dark cracking clay with acid brown clay subsoil.	2A9p-19	Dark cracking clay with acid brown clay subsoil.	2A9p-19	Dark cracking clay with acid brown clay subsoil.	1A9p-20	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-20	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-18	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-18	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-17	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-18	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-20	Dark cracking clay with acid brown clay subsoil.	2A9p-20	Dark cracking clay with acid brown clay subsoil.	2A9p-20	Dark cracking clay with acid brown clay subsoil.	1A9p-21	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-21	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-19	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-19	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-18	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-19	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-21	Dark cracking clay with acid brown clay subsoil.	2A9p-21	Dark cracking clay with acid brown clay subsoil.	2A9p-21	Dark cracking clay with acid brown clay subsoil.	1A9p-22	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-22	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-20	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-20	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-19	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-20	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-22	Dark cracking clay with acid brown clay subsoil.	2A9p-22	Dark cracking clay with acid brown clay subsoil.	2A9p-22	Dark cracking clay with acid brown clay subsoil.	1A9p-23	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-23	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-21	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-21	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-20	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-21	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-23	Dark cracking clay with acid brown clay subsoil.	2A9p-23	Dark cracking clay with acid brown clay subsoil.	2A9p-23	Dark cracking clay with acid brown clay subsoil.	1A9p-24	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-24	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-22	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-22	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-21	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-22	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-24	Dark cracking clay with acid brown clay subsoil.	2A9p-24	Dark cracking clay with acid brown clay subsoil.	2A9p-24	Dark cracking clay with acid brown clay subsoil.	1A9p-25	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-25	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-23	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-23	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-22	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-23	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-25	Dark cracking clay with acid brown clay subsoil.	2A9p-25	Dark cracking clay with acid brown clay subsoil.	2A9p-25	Dark cracking clay with acid brown clay subsoil.	1A9p-26	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-26	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-24	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-24	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-23	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-24	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-26	Dark cracking clay with acid brown clay subsoil.	2A9p-26	Dark cracking clay with acid brown clay subsoil.	2A9p-26	Dark cracking clay with acid brown clay subsoil.	1A9p-27	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-27	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-25	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-25	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-24	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-25	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-27	Dark cracking clay with acid brown clay subsoil.	2A9p-27	Dark cracking clay with acid brown clay subsoil.	2A9p-27	Dark cracking clay with acid brown clay subsoil.	1A9p-28	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-28	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-26	Dark brown non-cracking clay overlying weathered basalt at 120-150 cm.	1A9p-26	Deep dark cracking clay with alkaline brown (10YR) and olive brown (2.5Y) clay subsoil. No gilgai.		
1A9p-25	Dark cracking clay with alkaline dark brown clay subsoil.	2A9p-1p-26	Slightly gilgaied cracking clay with brown clay mound with acid to alkaline brown clay subsoil and grey clay depression with alkaline grey clay subsoil. Depressions occupy 30-40% of the land surface. Vertical interval usually less than 25 cm, occasionally up to 45 cm.	2A9p-28	Dark cracking clay with acid brown clay subsoil.	2A9p-28	Dark cracking clay with acid brown clay subsoil.	2A9p-28	Dark cracking clay with acid brown clay subsoil.	1A9p-29	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-29	Hard alkaline brown bleached duplex soil with 25-35 cm light-sandy-clay-loam surface soil, brown clay subsoil, and alkaline brown clay-loam D horizon below 85-95 cm.	1A9p-27	Dark brown non				

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