SOUTH NICHOLSON BASIN

SOUTH NICHOLSON GROUP

Mittiebah Sandstone	Psi	*Quartz sandstone, feldspathic sandstone, arkose*
Mullera Formation	Psl	*Micaceous siltstone, quartz sandstone, glauconitic sandstone, ferruginous sandstone and siltstone, ironstone*
Constance Sandstone	Psa	*Quartz sandstone*
	Psa_4	*Medium quartz sandstone*
	Psa_b	*Siltstone, thin bedded and laminated micaceous; blocky white quartz sandstone interbeds*
	Psa_3	*Quartz sandstone, reddish brown and white medium to coarse*
	Psa_w	*Fine sandstone and siltstone, purplish brown thin bedded and laminated, micaceous; quartz sandstone interbeds*
	Psa_2	*Quartz sandstone, white, medium to coarse*
	Psa_p	*Micaceous siltstone, shale and fine sandstone, purplish brown and grey thin bedded and laminated*
	Psa_1	*Sandstone, white medium to coarse; cobble conglomerate lenses*

LAWN HILL PLATFORM

FICKLING GROUP

Doomadgee Formation	Pfd	*Sandstone, grey and brown or reddish, fine to coarse; fissile shale and siltstone, dark grey, with flaggy claystone interbeds; dolomite, dolomitic sandstone and conglomerate*
Mount Les Siltstone	Pfl	*Dolomitic siltstone and shale; flaggy dolomite interbeds*
Walford Dolomite	Pfw	*Dolomite, blocky grey oolitic, stromatolitic and intraclastic; minor dolomitic sandstone and shale, often silicified at the top*
Fish River Formation	Pff	*Sandstone, fine to coarse, flaggy to massive; minor conglomerate and siltstone*

TAWALLAH GROUP EQUIVALENT

Peters Creek Volcanics	Ptp	*Alternating sequence of basalt, rhyolite and rhyodacite; some intermediate volcanics, possibly trachyte and andesite; minor tuff, shale, siltstone, sandstone, dolomite, and conglomerate*
Wire Creek Sandstone	Pti	*Coarse, gritty sandstone with scattered quartz pebbles; cobble and boulder conglomerate lenses*

McARTHUR BASIN SEQUENCE

McARTHUR GROUP

Karns Dolomite	Pmk	*Dolomite, algal dolomite, dolarenite; laminated, oolitic and algal chert; dolomitic siltstone and sandstone, silty and sandy dolomite, oolitic-chamosite dolomite*
Masterton Sandstone	Pms	*Sandstone, medium to coarse, pebbly in upper part; minor beds of clast-supported conglomerate; locally micaceous siltstone and breccia at the bottom*

TAWALLAH GROUP

Packsaddle Microgranite	Pgr	*Microgranite, pink, porphyritic*
Hobblechain Rhyolite	Pth	*Rhyolite, reddish-brown, porphyritic*
Gold Creek Volcanics	Ptg	*Trachyte and latite flows, tuff, tuffaceous and lithic sandstone, siltstone*
Wollogorang Formation	Pto_2	*Dolomitic and quartz sandstone, ferruginous in parts, feldspathic; dolomitic siltstone*
	Pto_1	*Dolomitic siltstone; dolomite; stromatolitic dolomite; oolitic dolomite*
Settlement Creek Volcanics	Pte	*Quartz latite and quartz trachyte lava flows and sills; minor siltstone; volcanic breccia and conglomerate*
Aquarium Formation	Ptq	*Glauconitic sandstone, fine to medium; glauconitic and dolomitic siltstone; dolomitic siltstone; dolomite*
Sly Creek Sandstone	Ptl	*Lithic and quartz sandstone, fine to medium, flaggy, locally feldspathic, minor conglomerate*
McDermott Formation	Ptd	*Dolomite, laminated, stromatolitic, sandy, oolitic and intraclast-rich; dolarenite; quartz sandstone, fine to medium clayey; glauconitic sandstone; shale and siltstone*
Seigal Volcanics	Pts	*Vesicular and amygdaloidal basalt; massive non-vesicular basalt; thin siltstone, sandstone and tuff interbeds*
Carolina Sandstone Member	Pts_c	*Lithic sandstone and quartz sandstone, fine to medium, flaggy or massive; minor siltstone beds in north and conglomerate in south-west*
	do	*Dolerite dyke*
Westmoreland Conglomerate	Ptw_4	*Matrix-supported cobble conglomerate overlain by conglomeratic, lithic and quartz sandstone, often ferruginous, pebble-free in upper part. Red, calcareous siltstone locally at the top*
	Ptw_3	*Matrix-supported boulder and cobble conglomerate grading westward into lithic sandstone with thin pebble beds, feldspathic in central part*
	Ptw_{2b}	*Matrix- and clast-supported boulder and cobble conglomerate; interbeds of feldspathic sandstone; lithic sandstone at the top*
	Ptw_{2a}	*Lenses of mostly clast-supported pebble and cobble conglomerate overlain by lithic and quartz sandstone, ferruginous in parts*
	Ptw_1	*Locally developed red micaceous siltstone, basal conglomerate and talus breccia overlain by lithic and quartz sandstone*
	Ptw	*Undivided Westmoreland Conglomerate*

BASEMENT SEQUENCE

Nicholson Granite Complex	Pgn_b	*Biotite ±muscovite granite and adamellite, medium to fine, equigranular*
	Pgn_a	*Hornblende–biotite adamellite and granodiorite, medium to coarse, inequigranular*
Cliffdale Volcanics	Pcc_b	*Billicumidji Rhyolite Member. Alkali rhyolite lava, red, flow-banded, with numerous ashfall tuff horizons*
	Pcc_a	*Rhyolitic and alkali rhyolitic ignimbrite; rhyolitic lava, ashfall tuff*
Murphy Metamorphics	Plm_2	*Predominantly immature metasandstone, poorly sorted, fine- to coarse-grained*
	Plm_1	*Predominantly metasiltstone and shale, well sorted, often highly ferruginous Fish River area: quartz-albite-biotite-chlorite schist*
	Plm	*Nicholson River/Collins Creek area: undivided metasediments, commonly sheared and brecciated; quartz-mica schists*