

Appendix 1B. Site observations for regional regolith geochemistry samples from the Ngururrpa area

METADATA	Easting	Northing						REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52		Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M16	394178	7738289		PM	JG	01/09/2015	7:12:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M17	400375	7738693		PM	JG	01/09/2015	7:24:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M18	404862	7739970		PM	JG	01/09/2015	7:31:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M33	395086	7734993		PM	JG	01/09/2015	8:05:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M34	400025	7734951		PM	JG	01/09/2015	7:58:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M35	405082	7735009		PM	JG	01/09/2015	7:50:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M36	410045	7734904		PM	JG	01/09/2015	7:40:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M52	394966	7729960		PM	JG	01/09/2015	8:13:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M53	399506	7730665		PM	JG	01/09/2015	8:23:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M54	404961	7729999	Yes	PM	JG	01/09/2015	–	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	No
M55	410023	7729980		PM	JG	01/09/2015	8:49:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M56	415117	7729989		PM	JG	01/09/2015	8:58:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M57	420037	7729935		PM	JG	01/09/2015	9:06:00 AM	Sandplain				Orange	Brown		Spinifex	Shrubs	Trees	No
M58	425102	7729981		PM	JG	01/09/2015	9:13:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M59	430046	7730080		PM	JG	01/09/2015	9:22:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M60	435114	7729979		PM	JG	01/09/2015	9:29:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M61	440006	7729954		PM	JG	01/09/2015	9:36:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M62	445016	7729955		PM	JG	01/09/2015	9:44:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M63	450265	7729697	Yes	PM	JG	01/09/2015	9:55:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M64	454897	7729926		PM	JG	01/09/2015	11:07:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M80	394943	7724998		PM	JG	01/09/2015	12:57:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M81	400273	7724881		PM	JG	01/09/2015	12:50:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M82	404960	7724999		PM	JG	01/09/2015	12:42:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M83	410103	7724994	Yes	PM	JG	01/09/2015	12:33:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M84	415068	7724969		PM	JG	01/09/2015	12:25:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M85	420059	7724980		PM	JG	01/09/2015	12:17:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M86	425029	7725045		PM	JG	01/09/2015	12:09:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M87	430397	7725140		PM	JG	01/09/2015	12:01:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M88	435281	7725036		PM	JG	01/09/2015	11:53:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M89	440046	7725019		PM	JG	01/09/2015	11:44:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M90	445152	7725060		PM	JG	01/09/2015	11:35:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M91	450181	7725034		PM	JG	01/09/2015	11:26:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M92	455017	7724986		PM	JG	01/09/2015	11:14:00 AM	Residual-relict	Outcrop			Brown	Orange		Spinifex	Trees		No
M108	394931	7719963		PM	JG	01/09/2015	1:05:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M109	400027	7720075		PM	JG	01/09/2015	1:13:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M110	405075	7720029		PM	JG	01/09/2015	1:20:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M111	410093	7720162		PM	JG	01/09/2015	1:28:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M112	415038	7720039		PM	JG	01/09/2015	1:35:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M113	419986	7720009		PM	JG	01/09/2015	1:42:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M114	425040	7720021	Yes	PM	JG	01/09/2015	1:50:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M115	430182	7720122		PM	JG	01/09/2015	1:59:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M116	435156	7720030		NK	AS	02/09/2015	8:20:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M117	440033	7719952		NK	AS	02/09/2015	8:28:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M136	395057	7715007	Yes	NK	AS	02/09/2015	7:10:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M137	400585	7716728		NK	AS	02/09/2015	7:20:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M138	404785	7715107		NK	AS	02/09/2015	7:30:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
M139	409865	7714965		NK	AS	02/09/2015	7:39:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M140	414983	7714996		NK	AS	02/09/2015	7:47:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M141	420027	7714959		NK	AS	02/09/2015	7:55:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M142	425118	7715020		NK	AS	02/09/2015	8:03:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M143	430012	7714963		NK	AS	02/09/2015	8:12:00 AM	Dunes				Brown	Red		Spinifex	Trees	Shrubs	no
M144	435073	7715006	Yes	NK	AS	02/09/2015	8:35:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No

Mag?	from	to	Sampled?	SURFACE REGOLITH										Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%							
	0.10	1.50	Yes	0	60	30	10	80				20						100	Sedimentary	
				0	5	80	15	100										100		
				0	5	85	10	100										100		
				0	5	80	15	100										100		
				0	5	80	15	100										100		
				0	5	85	10	100										100		
				0	10	70	20	100										100		
				0	50	40	10	80			20							100	Sedimentary	
				0	0	90	10											100		
				0	5	80	15	100										100		
				5	40	50	10	100										100		
				0	0	80	20											100		
				0	0	70	30											100		
				0	0	75	25											100		
				0	0	80	20											100		
				0	0	70	30											100		
				0	0	80	20											100		
				0	5	70	25	100										100		
				0	0	80	20											100		
				0	5	80	15	100										100		
				0	5	85	10	100										100		
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	85	15											100		
				0	0	85	15											100		
				0	0	80	20											100		
				0	0	80	20											100		
				0	0	85	15											100		
				0	0	80	20											100		
	0.10	1.00	Yes	0	0	75	25											100		
				0	60	30	10	100										100		
				0	15	70	15	10			90							100		
				0	85	10	5				100						50	50	Sedimentary	
				0	0	90	10											100		
				0	0	85	15											100		
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	85	15											100		
				0	5	85	10											100		
				0	0	90	10											100		
				0	5	80	15				100							100	Sedimentary	
				0	0	95	5											100		
				0	10	70	20	100										100		
				0	0	90	10											100		
				0	0	90	10											100		
				0.5	30	65	5	80			20							100		
				0	10	85	5	100										100		
				0	10	90	0		100					10			10	80		
				0	10	95	5	50			50						20	80		
				0	10	90	0	70			10	20					10	90		
				0	5	95	0	100										100		
0	2	98	0	50			50							100						

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	15	60	25	100									100					
90	10	70	20	10			90						100	Sedimentary				
90	10	70	20	100									100					
90	5	75	20	100									100					
90	0	80	20										100					
90	20	70	10	100									100					
60	25	50	25	100									100					
60	70	20	10	70			30						100	Sedimentary				
90	0	90	10										100					
90	0	75	25										100					
50	60	30	10	80			20						100	Sedimentary				
90	0	80	20										100					
90	0	70	30										100					
90	0	75	25										100					
90	0	75	25										100					
90	0	70	30										100					
90	0	80	20										100					
30	0	70	30										100					
90	0	80	20										100			Sedimentary	300	180
90	0	80	20										100					
90	5	80	15	100									100					
90	0	90	10										100			Sedimentary	200	180
90	0	90	10										100					
90	5	80	15				100						100	Sedimentary				
90	0	80	20										100					
90	0	75	25										100					
90	5	65	30	100									100					
90	0	85	15										100			Sedimentary	150	270
90	5	75	20				100						100	Sedimentary				
30	0	70	20										100					
90	30	55	15	100									100					
60	5	75	20				100						100	Sedimentary		Sedimentary	20	180
15	85	10	5				100					50	50	Sedimentary		Sedimentary	0	0
90	0	90	10										100					
90	0	85	15										100					
90	0	90	10										100					
90	0	85	15										100					
90	0	80	20										100					
90	0	85	15										100					
90	0	85	15										100					
90	0	80	20										100					
90	0	90	10										100					
90	5	55	40	100									100					
90	0	90	10										100					
90	0	90	10										100					
90	0	90	10										100					
90	30	60	10	70			30						100					
90	5	90	5	100									100					
90	0	90	10						10			10	80	Sedimentary?				
90	5	35	60	100									100	Sedimentary?				
90	10	70	20	70			10	20					100	Sedimentary?				
90	0	100	0										100					
90	5	95	0	100									100					

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMENTS
	Units nearby1	Units nearby2	Features1	Features2		
2nd coat					Photo (Y/N)	Comments
Fe	Dune		Dry	Unconsolidated	Y	Typical sandplain. Ferruginized lithics on surface with some less ferruginized material
			Dry	Unconsolidated	Y	Featureless sandplain. Dune about 250 m from site
Fe			Dry	Unconsolidated	Y	Sandplain. No surface granules. Low clay content
Fe			Dry	Unconsolidated	Y	Very few nodules or granules. Homogeneous
			Dry	Unconsolidated	Y	Weak clay cementation of sand into peds downhole
			Dry	Unconsolidated	Y	More nodules downhole, but still relatively low volume
			Dry	Unconsolidated	Y	Nodules downhole. Auger only to 60 cm. Nodules up to 2 cm
			Dry	Unconsolidated	Y	Poorly sorted surface lag
			Dry	Unconsolidated	Y	Homogeneous sandplain. No nodules or granules. Trees are burnt
Fe	Dune		Dry	Unconsolidated	Y	Homogeneous. Clay patches on surface (water accumulation)
			Dry	Unconsolidated	Y	Patches of lag. Slight mound at site. Lag is more pisolitic than fine-grained granules
			Dry	Unconsolidated	Y	Homogeneous
Fe			Damp		Y	Slightly damp. Bit higher clay content. Note colour difference
Fe			Damp	Unconsolidated	Y	Damp at depth. Termite mounds
Fe	Dune		Damp	Unconsolidated	Y	Between two dunes, which are about 500 m apart
Fe	Dune		Damp		Y	Homogeneous. Damp. Dune about 150 m north
			Dry	Unconsolidated	Y	Calcrete patches on surface, but not downhole
			Dry	Unconsolidated	Y	Compacted at depth. Two 30 cm-deep holes for sample
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Between two low dunes about 100 m away each side of site
	Dune		Dry	Unconsolidated	Y	Dunes about 200 m north and south
			Dry	Unconsolidated	Y	Sand banked up close to hill
			Dry	Unconsolidated	Y	Homogeneous. Burnt but regenerating
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Homogeneous sandplain
Fe			Damp		Y	
			Dry	Unconsolidated	Y	On backslope of sedimentary rocks. Looks eolian. Rare quartzite blocks on the surface
			Dry	Unconsolidated	Y	
			Dry	Indurated	Y	Compacted at depth. Site in slight depression
			Dry	Unconsolidated	Y	Polished lag on surface
			Dry	Unconsolidated	Y	Subcrop. Sedimentary rocks. Thin sand cover
			Dry	Unconsolidated	Y	Residual and clast rich on subhorizontal sedimentary rocks
			Dry	Unconsolidated	Y	Dunes about 150 m north and south
			Damp	Unconsolidated	Y	
			Damp	Unconsolidated	Y	
			Damp		Y	
Fe	Dune		Dry	Unconsolidated	Y	Partly consolidated, clay-cemented peds up to 1.5 cm in hole. Dunes 200 m north and south
	Dune		Dry	Unconsolidated	Y	Burnt. Dunes 200 m north and south. Termite mounds
Fe			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Sand dunes about 150 m north and south
Fe	Calcrete		Dry	Unconsolidated	Y	Calcrete patches on the surface nearby
Fe	Calcrete		Dry	Unconsolidated	Y	Calcrete patches nearby
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated		
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated		Calcrete patches on surface nearby
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry		Y	In between dunes
Fe	Dune		Dry	Unconsolidated	Y	Uniform profile to 50 cm. Calcrete and polished clasts (pebbles) from 50 to 90 cm bottom of the hole

METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M164	394976	7711329	Yes	PM	JG	01/09/2015	2:43:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
M165	400421	7711591		PM	JG	01/09/2015	2:52:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M166	405099	7709931		PM	JG	01/09/2015	2:59:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M167	409887	7709921		PM	JG	01/09/2015	3:13:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M168	415011	7709999		NK	AS	02/09/2015	9:04:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M169	420053	7710050		NK	AS	02/09/2015	8:57:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs	Trees	No
M170	425007	7709905		NK	AS	02/09/2015	8:49:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M194	407821	7706940		PM	JG	01/09/2015	3:06:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M195	409996	7705116		NK	AS	02/09/2015	9:30:00 AM	Sandplain				Brown	Red		Spinifex	Trees		No
M196	415001	7705018		NK	AS	02/09/2015	9:22:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs	Trees	No
M197	419970	7705035		NK	AS	02/09/2015	9:12:00 AM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M223	412572	7701749		NK	AS	02/09/2015	9:37:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M224	414965	7700070		NK	AS	02/09/2015	9:45:00 AM	Sandplain				Brown	Red		Spinifex	Trees		No
M225	420035	7699997		NK	AS	03/09/2015	9:53:00 AM	Sandplain				Brown	Red		Spinifex	Trees		No
M391	409978	7670179		NK	JG	13/09/2015	10:04:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M392	414811	7670114		NK	JG	13/09/2015	10:10:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M420	415105	7664959		NK	JG	13/09/2015	10:16:00 AM	Colluvium				Brown	Orange		Spinifex	Shrubs		No
M421	419981	7664549		NK	JG	13/09/2015	11:20:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Grass	Shrubs	Yes
M446	410061	7660325		NK	JG	13/09/2015	9:52:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M447	414968	7659888		NK	JG	13/09/2005	10:22:00 AM	Colluvium	Outcrop	Sandplain		Brown	Orange		Spinifex	Grass	Trees	No
M448	420012	7660158	YES	NK	JG	13/09/2015	11:15:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M449	425089	7660025		NK	JG	13/09/2015	12:18:00 PM	Sandplain	Colluvium			Brown	Orange		Spinifex	Shrubs	Trees	No
M450	429395	7658394		NK	JG	13/09/2015	1:10:00 PM	Sandplain	Colluvium			Brown	Orange		Spinifex	Shrubs		No
M473	410001	7654457		NK	JG	13/09/2015	9:46:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M474	415064	7655067		NK	JG	13/09/2015	10:29:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M475	420002	7654643		NK	JG	13/09/2015	11:09:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M476	425061	7654858		NK	JG	13/09/2015	12:25:00 PM	Colluvium	Sandplain	Sheetwash		Brown	Orange		Spinifex	Shrubs		No
M477	430144	7655183		NK	JG	13/09/2015	1:06:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M478	434618	7655022		NK	JG	13/09/2014	1:16:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M499	409999	7649914		NK	JG	13/09/2015	9:40:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M500	415180	7649936		NK	JG	13/09/2015	10:34:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M501	420178	7650224		NK	JG	13/09/2015	11:02:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M502	423971	7647928		NK	JG	13/09/2015	12:32:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M503	430056	7650078		NK	JG	13/09/2015	1:00:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M504	435146	7650668		NK	JG	13/09/2015	1:22:00 PM	Sandplain	Colluvium			Brown	Orange		Spinifex	Trees		No
M505	439958	7650412		NK	JG	13/09/2015	1:51:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M506	445038	7650065		NK	JG	16/09/2015	6:20:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M507	450135	7650016		NK	JG	16/09/2015	6:26:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M525	409858	7645000	YES	NK	JG	13/09/2015	9:34:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Grass	No
M526	415014	7644525		NK	JG	13/09/2015	10:40:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M527	420021	7645282		NK	JG	13/09/2015	10:56:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M528	425161	7644875		NK	JG	13/09/2015	12:37:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M529	430077	7645123		NK	JG	13/09/2015	12:53:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M530	434990	7645026		NK	JG	13/09/2015	1:28:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M531	439888	7644837		NK	JG	13/09/2015	1:48:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M532	444938	7645256		NK	JG	13/09/2015	1:59:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M550	410002	7641493		NK	JG	13/09/2015	9:28:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M551	415252	7641768		NK	JG	13/09/2015	10:46:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Trees	Shrubs	No
M552	419574	7641818		NK	JG	13/09/2015	10:51:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M553	425213	7639745		NK	JG	13/09/2015	12:43:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M554	429975	7640111		NK	JG	13/09/2015	12:48:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M555	435109	7640065		NK	JG	13/09/2015	1:34:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M556	439854	7640121		NK	JG	13/09/2015	1:40:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M557	445289	7640134		NK	JG	13/09/2015	2:05:00 PM	Sandplain	Residual/relict			Brown	Yellow		Grass	Spinifex		No

Mag?	from	to	Sampled?	SURFACE REGOLITH										Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%							
	0.10	1.00	Yes	0	30	60	10	100						10				100	Sedimentary?	
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	100	0										20	80		
				0	0	100	0										20	80		
				0	0	100	0										10	80		
				0	0	90	10											100		
				0	20	80	0	100									50	50		
				0	0	100	0										20	80		
				0	5	75	20	50			50						40	60		
				0	0	100	0										10	90		Sedimentary?
				0	10	75	15	50			50						10	90		Sedimentary
				0	20	80	0	50			50						20	80		Sedimentary?
				0	5	85	15	20			50	30					50	50		Sedimentary
				0	20	70	10				80						40	60		Sedimentary
				2	40	60	0	20			80						60	40		Sedimentary
	0.10	2.00	No	1	30	70	0	15			70	15		5			50	50	Sedimentary	
				0	5	85	10	100									20	80		
				0	70	30	0				100						70	30		
				0	5	90	5				100						50	50		
				0	5	85	10	50			50						50	50		
				0	0	90	10	90									50	50		
				0	15	75	10	20			80						30	70		
				0	0	90	10										10	85		
				0	20	75	5				80	20					60	40		
				0	10	90	0	30			70						50	50		
				0	5	85	10	50			50						40	60		
				0	5	95	0	50			50						50	50		
				0	5	90	5				90	10					10	90		
				0	0	100	0										10	90		
				0	0	100	0										10	90		
				0	5	90	5	50			50						20	80		
				0	0	95	5										40	60		
				0	10	80	10				100						80	20		
				0	0	100	0										20	80		
				0	5	95	0	50			50						30	70		
				0	0	90	10										20	80		
				0	0	90	10										40	60		
				0	0	95	5										15	85		
				0	0	100	0										10	90		
				0	5	95	0	50			50						10	90		
				0	5	90	5	50			50						30	70		
				0	10	70	20	80			20						60	40		
				0	0	100	0										20	80		
				0	0	100	0										30	70		
				0	0	90	10										30	70		
				2	60	20	20				100						100			
				0	5	90	5	50			50						80	20		
				0	5	90	5	50			50						40	60		
				0	5	90	5	50			50						40	60		
				0	5	95	0	50			50			15			35	50		
?	0.20	0.50	No	0	10	90	0	50			50						30	70		
				0	30	10	60		100								100			

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	30	60	10	5			95						100	Sedimentary				
90	0	85	15										100					
90	0	90	10										100					
90	0	90	10										100					
90	0	100	0									20	80	Sedimentary?				
0	0	100	0									20	80	Sedimentary?				
90	0	100	0						10			10	80					
90	0	90	10										100					
90	15	85	0	100								50	50	Sedimentary				
90	0	100	0									20	80	Sedimentary				
90	15	65	20	50			50					40	60	Sedimentary?				
90	5	95	0				100					10	90	Sedimentary?				
50	50	20	30				100					50	50	Sedimentary				
70	0	60	40									20	80	Sedimentary?				
90	5	75	20	50			50					50	50	Sedimentary				
90	30	45	25	20			80					50	50	Sedimentary				
90	40	40	20	10			90					50	50	Sedimentary				
50	30	50	20	15			85					50	50	Sedimentary				
	5	80	15	100								20	80	Sedimentary				
80	70	15	15				100					50	50	Sedimentary		Sedimentary	10	145
90	0	60	40									50	50	Sedimentary		Sedimentary	600	270
90	0	70	30									50	50	Sedimentary		Sedimentary	200	180
90	0	80	20									50	50	Sedimentary		Sedimentary	200	315
50	10	70	20	10			90					50	50	Sedimentary				
90	0	70	30									20	80	Sedimentary				
60	20	65	15				80	20				60	40	Sedimentary				
80	5	95	0	30			70					50	50	Sedimentary		Sedimentary	100	180
90	0	40	60									50	50	Sedimentary		Sedimentary	300	90
90	5	95	0				100					50	50	Sedimentary		Sedimentary	50	180
90	5	85	10				100					20	80	Sedimentary				
90	0	70	30									10	90	Sedimentary				
90	0	90	10									10	90	Sedimentary				
	0	85	15									30	70	Sedimentary				
90	0	90	10									40	60	Sedimentary				
40	50	30	20				100					80	20	Sedimentary		Sedimentary	2	180
90	0	60	40									40	60	Sedimentary				
90	5	80	15	50			50					30	70	Sedimentary				
90	0	90	10									10	90	Sedimentary				
90	0	80	20									40	60	Sedimentary				
90	0	80	20									15	85	Sedimentary				
90	0	100	0									10	90	Sedimentary				
90	5	80	15	50			50					20	80	Sedimentary				
90	0	50	50									50	50	Sedimentary				
90	5	50	40	80			20					50	50	Sedimentary				
90	0	85	15									30	70	Sedimentary		Sedimentary	2000	E
90	0	50	50									50	50	Sedimentary				
90	0	90	10									20	80	Sedimentary		Sedimentary	2000	SW
60	40	30	30		10		90					100		Sedimentary		Sedimentary	1	E
90	0	70	30									80	20	Sedimentary		Sedimentary	600	W
90	5	80	15	50			50					40	60	Sedimentary				
70	5	85	10	50			50					40	60	Sedimentary				
90	0	40	60									50	50	Sedimentary		Sedimentary	2000	E
90	5	60	35	100								50	50	Sedimentary				
20	20	10	70		100							100		Sedimentary				

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METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M558	327461	7635358	Yes	PM	JG	03/09/2015	9:20:00 AM	Sandplain				Brown	Orange		Shrubs	Spinifex		No
M559	329942	7635007		PM	JG	03/09/2015	9:12:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M560	334844	7633405		PM	JG	03/09/2015	9:05:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M561	339922	7634783		PM	JG	03/09/2015	8:58:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M562	344870	7635061		PM	JG	03/09/2015	8:51:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M563	349926	7635212		PM	JG	03/09/2015	8:44:00 AM	Sandplain	Dunes			Brown	Orange		Shrubs	Spinifex		No
M564	354935	7634993		PM	JG	03/09/2015	8:37:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M565	360009	7635011		PM	JG	03/09/2015	8:29:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M566	365080	7635003		PM	JG	03/09/2015	8:22:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M567	371734	7636817		PM	JG	03/09/2015	8:14:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M568	374872	7636317		PM	JG	03/09/2015	8:07:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M569	380047	7635007		NK	AS	02/09/2015	1:16:00 PM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	Yes
M570	385594	7636514		NK	AS	02/09/2015	1:07:00 PM	Colluvium	outcrop			Brown	Red		Spinifex	Shrubs	Trees	Yes
M571	390091	7635006		NK	AS	02/09/2015	12:58:00 PM	Sandplain				Brown	Red		Spinifex	Trees		No
M572	394997	7635095		NK	AS	02/09/2015	12:46:00 PM	Sheetwash				Brown	Red		Spinifex	Trees		No
M573	400178	7634982		NK	AS	02/09/2015	12:37:00 PM	Colluvium				Brown	Red		Spinifex	Shrubs		No
M575	409534	7634295		NK	AS	02/09/2015	12:28:00 PM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M577	422201	7636185		NK	AS	02/09/2015	12:17:00 PM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M578	425156	7634829		NK	AS	02/09/2015	2:38:00 PM	Sandplain				Red	Brown		Spinifex	Trees	Shrubs	No
M579	429928	7634974		NK	AS	02/09/2015	2:45:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M580	435037	7634947		NK	AS	02/09/2015	2:50:00 PM	Sandplain				Brown	grey		Spinifex	Trees	Shrubs	No
M581	439973	7634968		NK	AS	02/09/2015	3:01:00 PM	Sandplain				Brown	grey		Spinifex	Shrubs		No
M582	445012	7635400		PM	JG	05/09/2105	10:04:00 AM	Sandplain	Dunes			Brown	Orange		Shrubs	Spinifex	Trees	No
M583	325044	7629971		PM	JG	03/09/2015	9:26:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M584	329990	7630468		PM	JG	03/09/2015	9:34:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M585	334951	7629981		PM	JG	03/09/2015	9:40:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M586	340046	7629958		PM	JG	03/09/2015	9:47:00 AM	Sandplain				Brown	Orange		Shrubs	Spinifex		No
M587	345036	7629998		PM	JG	03/09/2015	9:54:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M588	349887	7629894		PM	JG	03/09/2015	10:02:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M589	356466	7631178		PM	JG	03/09/2015	10:09:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M590	360088	7629868		PM	JG	03/09/2015	10:15:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M591	365094	7629971	Yes	PM	JG	03/09/2015	10:22:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
M592	369914	7629990		PM	JG	03/09/2015	10:30:00 AM	Sheetwash				Brown	Orange		Spinifex	Shrubs	Trees	No
M593	374616	7630109		PM	JG	03/09/2015	10:38:00 AM	Sheetwash	Sandplain			Brown	Orange		Spinifex	Shrubs		Yes
M594	380047	7630102	Yes	NK	AS	02/09/2015	1:25:00 PM	Sheetwash	Sandplain			Brown	Red					Yes
M595	385164	7628927		NK	AS	02/09/2015	1:37:00 PM	Sheetwash	Sandplain			Brown	Red		Spinifex	trees	shrubs	Yes
M596	390070	7629971		NK	AS	02/09/2015	1:56:00 PM	Sheetwash	Sandplain			Brown	Red		Spinifex	shrubs		Yes
M597	396229	7629235		NK	AS	02/09/2015	2:14:00 PM	Sandplain				Brown	Red		Spinifex	trees		No
M598	400138	7629991		NK	AS	02/09/2015	–	Colluvium				Brown	Red		Spinifex	trees	shrubs	No
M602	421477	7628852		NK	AS	02/09/2015	11:35:00 AM	Sandplain				Brown	Red		Spinifex	shrubs		No
M603	425160	7629693		NK	AS	06/09/2015	6:35:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Trees		No
M604	430206	7630098		PM	JG	05/09/2015	6:52:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M605	435093	7630029		PM	JG	05/09/2015	6:43:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs	Spinifex	No
M606	440012	7629873	Yes	PM	JG	05/09/2015	6:34:00 AM	Playa	Sandplain			Brown			Shrubs	Spinifex	Grass	No
M607	444531	7629744		PM	JG	05/09/2015	9:58:00 AM	Sandplain	Dunes			Brown	Orange		Shrubs	Spinifex	Trees	No
M608	324951	7625388		JG	PM	03/09/2015	12:39:00 PM	Sandplain				Red	Brown		Spinifex	Trees		No
M609	329927	7624995		JG	PM	03/09/2015	12:32:00 PM	Sandplain				Red	Brown		Spinifex	Trees		No
M610	334793	7625495		JG	PM	03/09/2015	12:25:00 PM	Sandplain				Red	Brown		Spinifex	Shrubs		No
M611	339881	7626116	Yes	JG	PM	03/09/2015	12:16:00 PM	Sandplain				Brown	Red		Shrubs	Spinifex	Trees	No
M612	344355	7626599		JG	PM	03/09/2015	12:08:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M613	352117	7625584		JG	PM	03/09/2015	11:57:00 AM	Sandplain				Red	Brown		Spinifex	Trees		No
M614	354965	7624780		JG	PM	03/09/2015	11:48:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
M615	359970	7625022		JG	PM	03/09/2015	11:39:00 AM	Sandplain				Red	Brown		Spinifex	Trees		No
M616	362466	7623173		JG	PM	03/09/2015	11:32:00 AM	Sandplain				Red	Brown		Spinifex	Trees		No

Mag?	from	to	Sampled?	SURFACE REGOLITH																Lithics1	Lithics2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
?	0.10	1.00	Yes	0	0	95	5	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	0	85	15	100									100					
90	0	85	15										100					
90	0	90	10										100					
90	0	85	15										100					
90	50	30	20										100					
90	0	90	10										100					
90	0	85	15										100					
90	0	75	25										100					
60	20	60	20										100					
90	0	80	20										100					
90	50	35	15	90			10				100	Sedimentary	Sedimentary	4	270			
50	40	50	10	70			30			20	80	Sedimentary						
50	30	60	10	50			50			50	50	Sedimentary						
30	0	60	40							50	50							
	30	40	30	10			90						Sedimentary	Sedimentary	1000	90		
10	90	10	0	5			95						Sedimentary					
90	0	90	10								30	70	Sedimentary					
90	0	90	10								20	80	Sedimentary					
90	0	90	10								10	90						
90	0	70	30								10	90						
90	0	80	20									90						
15	60	5	35		100							100						
15	30	30	40		100						50	50						
90	0	90	10									100						
90	0	85	15									100						
90	0	85	15									100						
90	5	85	10	100								100		Sedimentary				
90	0	85	15									100						
90	0	80	20									100						
50	5	80	15	20			80					100						
90	0	90	10									100						
90	0	85	15									100						
90	0	85	15									100						
90	0	80	20									100						
90	5	85	10	100								100						
90	0	80	20									100						
90	15	75	10	100								100						
30	60	20	20	20			80				20	80	Sedimentary					
40	30	70	0	80			20				40	60	Sedimentary?					
30	30	30	40	80			20				50	50	Sedimentary					
90	0	70	30								30	70						
30	30	30	40	20			80				60	40	Sedimentary					
90	0	100	0									10	90					
90	0	90	10									100						
15	5	80	15		100					20		80						
15	40	50	10		100					20		80						
90	10	60	30		100													
90	0	85	15									100						
90	0	90	10									100						
90	0	90	10									100						
90	0	80	20						10			90						
90	0	80	20						10			90						
90	0	90	10						10			90						
90	0	90	10						10			90						
30	40	20	30	100					10			90						
90	0	80	20						10			90						
90	0	90	10									100						
90	0	90	10									100						

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
2nd coat						
Fe			Dry	Unconsolidated	Y	Note shrubs more common than spinifex
	Dune		Dry	Unconsolidated	Y	Homogeneous. Dunes about 300 m north and south
Fe			Dry	Unconsolidated	Y	Homogeneous. Dunes about 300 m north and south
	Dune		Dry	Unconsolidated	Y	Dunes about 250 m north and south
Fe	Dune		Dry	Unconsolidated	Y	Abundant pisolites in hole. Subrounded and up to 1 cm diameter
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 150 m north and south. Shrubs more common than spinifex
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 100 m north and south
			Dry	Unconsolidated	Y	Carbonate patches. Augered to 90 cm in sandy patch. Lot of carbonate clasts in several test holes (augered only to 10 cm)
			Dry	Unconsolidated	Y	Carbonate patches from air. Carbonate clasts downhole
Fe			Dry	Unconsolidated	Y	No lag
Fe			Dry	Unconsolidated	Y	
Fe			Dry		Y	Lag collected
Fe	outcrop		Dry	Unconsolidated	Y	Auger hit rocks at 50 cm
Fe	Dune		Dry		Y	Three holes augered to get enough material. Compacted clay? at 30 cm
Fe			Dry		Y	Patches of stony surfaces, augered four holes to get enough material
Fe	Breakaway		Dry		Y	Surface covered in lithics fragments
Fe	Dune	Outcrop		Unconsolidated	Y	
Fe	Dune		Dry		Y	
Fe	Dune		Damp		Y	
	Dune		Damp		Y	Slightly damp sand at bottom of hole
CO3	Dune		Dry		Y	Calcrete layer between dunes and fragmented at surface. Three holes drilled.
CO3	Dune		Dry		Y	
	Dune		Dry	Unconsolidated	Y	Moved off playa lake edge
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Site moved off dune
	Dune		Dry	Unconsolidated	Y	Dunes about 300 m north and south
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 400 m north and south
	Dune		Dry	Unconsolidated	Y	Nodule and lithic fragment compaction at depth (augered to 50 cm)
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 100 m north and south
Fe			Dry	Unconsolidated	Y	Weak development of Fe granules on surface
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Very thin, fine (<2 mm) Fe lag scattered at surface
Fe			Dry		Y	Slight depression. More clay-rich and compacted in hole
Fe			Dry	Unconsolidated	Y	Large patches of lag surrounded by sandplain
Fe			Dry		Y	
Fe			Dry		Y	Rocks at 40 cm depth
Fe			Dry		Y	
Fe			Damp		Y	Damp at bottom of hole
Fe			Dry		Y	Rocky low outcrop area. Two holes augered to fill sample bags. Hit rock at 30 cm
Fe	Dune		Damp		Y	
Fe	Dune		Damp	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Lot of carbonate sheets at surface. Sand patches (augered) between. Carbonate at 15 cm
			Dry	Unconsolidated	Y	Notable carbonate fragments up to 5 cm on surface and downhole. Four shallow holes
	Dune		Dry	Unconsolidated	Y	Depression (playa) in sandplain. Carbonate fragments
	Dune		Dry	Unconsolidated	Y	Moved from adjacent to playa
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Only augered to 30 cm. Ferruginous pisolites on surface
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	

METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M617	369968	7624917		JG	PM	03/09/2015	11:03:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs	Trees	Yes
M618	375001	7624969		JG	PM	03/09/2015	–	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
M619	380013	7624972		NK	JG	13/09/2015	8:57:00 AM	Sheetwash				Brown	Red		Shrubs	Trees	Spinifex	Yes
M620	385015	7625017		NK	JG	13/09/2015	8:51:00 AM	Sheetwash	Sandplain			Brown	Yellow		Grass	Spinifex		No
M621	392298	7624322		NK	JG	13/09/2015	8:01:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
M622	395064	7625044		NK	JG	13/09/2015	7:57:00 AM	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	Yes
M623	400088	7625014		NK	JG	13/09/2015	6:29:00 AM	Sheetwash	Sandplain			Brown	Orange		Spinifex	Shrubs		Yes
M624	404178	7623632		NK	AS	02/09/2015	11:09:00 AM	Sandplain				brown	red		spinifex	trees	shrubs	No
M627	422360	7624013	Yes	NK	AS	02/09/2015	11:23:00 AM	Sandplain				brown	red		spinifex	shrubs		No
M628	425075	7625083		NK	AS	06/09/2015	6:43:00 AM	Sandplain	Dunes			brown	red		spinifex	shrubs		No
M629	429964	7624810		PM	JG	05/09/2015	6:59:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M630	434933	7624930		PM	JG	05/09/2015	12:32:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M631	440019	7624981		PM	JG	05/09/2015	12:22:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M632	443704	7624860	YES	PM	JG	05/09/2015	12:14:00 PM	Sandplain	Playa			Brown	Orange		Spinifex			No
M633	324992	7620174		JG	PM	03/09/2015	12:47:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs	Trees	No
M634	330235	7619851		JG	PM	03/09/2015	12:54:00 PM	Sandplain				Red	Brown		Spinifex	Trees		No
M635	334933	7620074		JG	PM	03/09/2015	1:03:00 PM	Sandplain				Red	Brown		Spinifex	Shrubs		No
M636	339917	7620208		JG	PM	03/09/2015	1:10:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M637	343838	7618252		JG	PM	03/09/2015	1:18:00 PM	Sandplain				Red	Brown		Spinifex	Shrubs	Trees	No
M638	352197	7620949		JG	PM	03/09/2015	1:27:00 AM	Sandplain				Red	Brown		Spinifex	Shrubs	Trees	
M639	354950	7619840	Yes	JG	PM	03/09/2015	1:34:00 PM	Sandplain				Red	Brown		Spinifex	Trees		Yes
M640	359896	7619850		JG	PM	03/09/2015	1:43:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
M641	363374	7619108		JG	PM	03/09/2015	1:52:00 PM	Sandplain				Red	Brown		Spinifex	Shrubs	Trees	No
M642	370070	7619920		JG	PM	03/09/2015	2:03:00 PM	Sheetwash	Sandplain			Brown	Red		Spinifex	Shrubs		Yes
M643	374903	7620035		JG	PM	03/09/2015	2:10:00 PM	Sandplain				Red	Brown					Yes
M644	380054	7620176	YES	AS	PM	08/08/2015	3:10:00 PM	Sandplain				Orange	Brown		Spinifex	Shrubs		Yes
M645	385015	7620031		NK	JG	13/09/2015	8:44:00 AM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Shrubs		Yes
M646	390093	7619910		NK	JG	13/09/2015	8:08:00 AM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Trees		Yes
M647	395013	7619881		NK	JG	13/09/2015	7:49:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M648	400136	7619965		NK	JG	13/09/2015	6:37:00 AM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Shrubs		Yes
M649	404976	7619969		PM	JG	05/09/2015	7:42:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M650	409383	7619278		PM	JG	05/09/2015	7:35:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M651	414734	7619369		PM	JG	05/09/2015	7:27:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M652	421431	7621484		PM	JG	05/09/2015	7:20:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M653	425123	7620110		PM	JG	05/09/2015	7:13:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M654	430008	7620012		PM	JG	05/09/2015	7:06:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M655	435008	7620176		JG	PM	05/09/2015	1:27:00 PM	Colluvium				Brown	Red		Spinifex	Shrubs		No
M656	440099	7620141		NK	AS	06/09/2015	9:57:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs	Trees	No
M657	444948	7620128		NK	AS	06/09/2015	10:05:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M658	450217	7620270		NK	AS	06/09/2015	10:12:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Shrubs		No
M659	325059	7614878		NK	AS	04/09/2015	6:44:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Trees	Shrubs	
M660	329872	7615006		NK	AS	04/09/2015	6:52:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		
M661	334865	7615297		NK	AS	04/09/2015	6:58:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		
M662	339796	7615017		NK	AS	04/09/2015	7:06:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		
M663	344922	7615015		NK	AS	04/09/2015	7:13:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs	Trees	
M665	355159	7614956		NK	AS	04/09/2015	7:23:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Trees		
M666	359848	7614946		NK	AS	04/09/2015	7:31:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		
M667	365063	7615009		NK	AS	04/09/2015	7:40:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Trees		
M668	369918	7615022		NK	AS	04/09/2015	7:47:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		Yes
M669	374806	7615006	Yes	NK	AS	04/09/2015	7:56:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		Yes
M670	380041	7615090		AS	PM	08/09/2015	3:01:00 PM	Sandplain				Brown	Orange		Spinifex			Yes
M671	385039	7615040	Yes	NK	JG	13/09/2015	8:36:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
M672	390183	7615027		NK	JG	13/09/2015	8:19:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M673	395115	7615051		NK	JG	13/09/2015	7:43:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No

Mag?	from	to	Sampled?	SURFACE REGOLITH				Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %													
?	0.10	2.00	Yes	5	0	50	50							10				90		
	0.10	2.00	Yes	5	0	70	30							10				90		
	0.10	1.00	Yes	0	40	40	20	80			20						50	50	Sedimentary	
				2	90	10	0	10			90						100		Sedimentary	
?	0.20	0.50	No	0	10	70	20	100									80	20	Sedimentary	
?	0.20	2.00	No	0	10	80	10	50			50						30	70	Sedimentary	
?	0.20	2.00	Yes	1	40	30	30	60			40						30	70	Sedimentary	
				0	15	75	15	50			50						20	80	Sedimentary	
				0	0	95	5											100		
				0	0	100	0											100		
				0	0	90	10											100		
				0	5	85	10	10			90								Sedimentary	
				0	10	80	10					60					20	90	Vein quartz	
				0	0	90	10											100		
				1	0	70	30							10				90		
				1	0	90	10							10				90		
				1	0	90	10											100		
				5	0	90	10											100		
				1	0	100	0											100		
				5	0	90	10							10				90		
	0.10	2.00	No	1	10	90	0	100						10				90		
	0.10	2.00	Yes	1	40	60	0	100						20				80		
				5	0	100	0											100		
	0.10	1.00		1	60	20	20	100						30				70		
	0.10	1.00		1	50	20	30	100						40				60		
	0.20	3.00	Yes	1	50	20	30	80			20						50	50	Sedimentary	
	0.20	1.00	No	0	40	50	10	20			80						50	50	Sedimentary	
?	0.20	2.00	Yes	1	30	60	10	40			60						50	50	Sedimentary	
?	0.20	2.00	Yes	0	30	70	0	70			30						50	50	Sedimentary	
?	0.20	1.00	Yes	1	50	30	20	70			30						70	30	Sedimentary	
				0	0	90	10											100		
			No	0	10	80	10	100										100		
				0	0	85	10											100		
				0	0	85	15											100		
				0	0	90	10											100		
				0	0	85	15											100		
				0	50	50	0				100							100		Sedimentary
				0	5	95	0	100										100		
				0	20	65	15		100									100		
				0	0	85	15											100		
				0	5	95	0	100										100		
				0	0	100	0											100		
				0	0	100	0											100		
				0	0	100	0											100		
				0	0	85	15											100		
				0	30	50	20	50			50							100		Sedimentary
				0	10	80	10	100										100		
Y	0.20	1.00	Yes	0	40	60	0	100										100		Sedimentary
Y	0.20	2.00		0	30	40	30	90				10						100		Sedimentary
	0.20	1.00	Yes	0.5	10	90	0	50			50						50	50	Sedimentary	
?	0.20	0.50	No	0	15	75	10	15			70	15					60	40	Sedimentary	
				0	5	85	10	100									40	60	Sedimentary	
				0	5	85	10	50			50						20	80	Sedimentary	

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	10	60	30						10				90					
90	50	50	0	100					10				90					
70	40	40	20	80			20					50	50	Sedimentary				
70	70	10	20				100					100	20	Sedimentary				
90	10	50	40	100								80	20	Sedimentary				
70	10	60	30	50			50					50	50	Sedimentary				
60	40	30	30	50			50					50	50	Sedimentary				
50	20	60	20	50			50					20	80	Sedimentary				
90	0	90	10										100					
90	0	95	5										100					
90	0	90	10										100					
90	30	60	10	5			95							Sedimentary				
90	5	85	10				50	50				10	90	Vein quartz				
90	0	85	15										100					
90	0	90	10						10				90					
90	0	80	20						10				90					
90	0	80	20						10				90					
75	0	80	20										100					
30	0	90	10						10				90					
60	0	90	10										100			Sedimentary	0	
90	10	90	0	100					10				90					
90	50	50		100					10				80					
90	0	90	10										100					
90	0	60	40						20				80					
90	10	50	30	100					30				70					
90	30	40	30	50	10		40						100					
50	30	50	20	50			50					50	50	Sedimentary				
60	30	40	30	30			70					50	50	Sedimentary				
90	30	60	10	50			50					50	50	Sedimentary				
60	50	25	25	60			40					70	30	Sedimentary				
90	0	90	10										100					
90	20	70	10	80			20						100	Sedimentary				
90	0	85	15										100					
90	0	85	15										100					
90	0	90	10										100					
90	0	80	20										100					
15	50	40	10				100						100	Sedimentary				
90	0	85	15										100					
15	20	70	10		100								100					
55	0	70	30										100					
90	0	40	60										100					
90	0	60	40										100					
90	0	70	30										100					
90	0	70	30										100					
90	0	70	30										100					
15	0	20	80										100					
90	20	50	30	100									100					
80	30	30	40	80			20						100	Sedimentary				
60	0	40	60										100					
50	10	70	20	50			50					50	50	Sedimentary				
70	5	90	5	100								30	70	Sedimentary				
90	5	70	25	100								50	50	Sedimentary				
90	5	80	15	100								30	70	Sedimentary				

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMENTS
	Units nearby1	Units nearby2	Features1	Features2		
2nd coat					Photo (Y/N)	Comments
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe	Channel		Dry	Unconsolidated	Y	Surface 100% lithic, ferruginized sandstone fragments on slope
Fe			Dry	Unconsolidated	Y	
Fe			Damp	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Rocky at 50 cm
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Dunes only 100 m north and south. All dunes very close in this area
	Dune		Dry	Unconsolidated	Y	Weakly ferruginized lithic fragments up to 6 cm on surface. Stones downhole
	Dune		Dry	Unconsolidated	Y	Vein-quartz chips up to 2 cm in surface. Smaller downhole
	Dune		Dry	Unconsolidated	Y	Site moved off playa. Sandplain adjacent to playa. Dunes about 400 m north and south
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Carbonate patches at surface (scattered) and carbonate about 10 cm downhole
	Dune		Dry	Unconsolidated	Y	Carbonate at surface
	Dune		Dry	Unconsolidated	Y	Carbonate at surface. Hit carbonate at 30 cm depth
	Dune		Dry	Unconsolidated	Y	Quartzite outcrop close to site
Fe	Dune		Dry	Unconsolidated	Y	Pisolites at surface
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Depression in sandplain. Possible sump for lag?
			Dry	Unconsolidated	Y	Flagging tape approximately 100 m east of site
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Compacted at 40 cm
Fe			Dry	Unconsolidated	Y	Large sandstone clasts on surface, up to 15 cm. Gripping at 60 cm
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Ferruginized lithics and Fe-nodules at bottom of hole (90 cm).
Fe			Dry	Unconsolidated	Y	Dunes about 300 m north and south.
			Dry	Unconsolidated	Y	Dune about 150 m south
	Dune		Dry	Unconsolidated	Y	Low dunes about 100 m north and south.
Fe			Dry	Unconsolidated	Y	Broad sandplain
			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Calcrete	Dune	Damp	Unconsolidated	Y	Sandplain with calcrete patches. Hit calcrete at 15 cm downhole
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	East of heritage area
Fe	Dune		Dry	Indurated	Y	Concretions on surface. Compacted clay, shallow hole
Fe	Dune		Damp	Unconsolidated	Y	Nodules at 90 cm
Fe	Dune		Damp	Unconsolidated	Y	
Fe	Dune		Damp	Unconsolidated	Y	Clay layer from 50 cm through to bottom of the hole at 60 cm
			Dry	Unconsolidated	Y	Very compacted at depth
Fe	Dune		Dry	Unconsolidated	Y	Termite mounds
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	



METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M674	399953	7615007		NK	JG	13/09/2015	6:45:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M675	405022	7614879	YES	PM	JG	05/09/2015	7:50:00 AM	Sandplain				Brown	Orange					No
M676	410321	7615024		JG	PM	05/09/2015	2:14:00 PM	Sandplain				Red	Orange		Spinifex	Shrubs	Trees	No
M677	414949	7615070		JG	PM	05/09/2015	2:06:00 PM	Sandplain	Outcrop	Dunes		Red	Orange		Spinifex	Shrubs	Trees	No
M678	420274	7615029		JG	PM	05/09/2015	1:58:00 PM	Sandplain	Dunes			Red	Orange		Spinifex	Trees		No
M679	425129	7614994		JG	PM	05/09/2015	1:51:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M680	430100	7615094		JG	PM	05/09/2015	1:43:00 PM	Sandplain				Red	Brown		Spinifex	Shrubs		No
M681	435458	7614647		JG	PM	05/09/2015	1:35:00 PM	Sandplain	Dunes			Red	Orange		Spinifex	Shrubs	Trees	No
M682	439985	7615087		NK	AS	06/09/2015	2:46:00 PM	Sandplain	Dunes			Brown	Red		Spinifex	Trees		No
M683	445155	7615203	Yes	NK	AS	06/09/2015	12:18:00 PM	Sandplain	Dunes			Brown	Red		Spinifex	Trees	Shrubs	No
M684	449909	7615106		NK	AS	06/09/2015	12:10:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M685	455063	7615055		NK	AS	06/09/2015	12:02:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M686	324874	7610314		NK	AS	04/09/2015	10:38:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		
M687	329800	7610263	Yes	NK	AS	04/09/2015	10:30:00 AM	Sandplain				Brown	Yellow		Spinifex	Shrubs		
M688	335066	7609836		NK	AS	04/09/2015	10:23:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		
M689	340072	7609867		NK	AS	04/09/2015	10:16:00 AM	Sandplain				Brown	Red		Spinifex	Trees		
M690	345013	7609903		NK	AS	04/09/2015	10:09:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		
M691	349658	7608328		NK	AS	04/09/2015	10:01:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs	Trees	
M692	356834	7608647		NK	AS	04/09/2015	9:53:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Trees		
M693	360041	7609966		NK	AS	04/09/2015	9:46:00 AM	Sandplain	outcrop			Brown	Red		Spinifex	Shrubs	Trees	Yes
M694	364898	7609886		NK	AS	04/09/2015	9:39:00 AM	Sandplain				Brown	Red		Spinifex			Yes
M695	369994	7609986		NK	AS	04/09/2015	9:30:00 AM	Sandplain				Brown	Red		Spinifex	Trees		Yes
M696	374997	7609942		NK	AS	04/09/2015	9:22:00 AM	Sandplain	outcrop			Brown	Red		Spinifex	Shrubs		
M697	380065	7610154		AS	PM	08/09/2015	2:54:00 PM	Sandplain				Brown	Yellow		Spinifex	Shrubs	Trees	Yes
M698	384928	7610006		NK	JG	13/09/2015	8:30:00 AM	Sandplain	Residual/relict			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M699	387661	7611528		NK	JG	13/09/2015	8:24:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M700	395216	7610429		NK	JG	13/09/2015	7:37:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M701	400097	7609845		NK	JG	13/09/2015		Sandplain				Brown	Orange		Grass	Spinifex	Shrubs	Yes
M702	404988	7609846		JG	PM	05/09/2015	2:22:00 PM	Sandplain				Red	Orange		Spinifex	Trees		Yes
M703	409980	7610010		JG	PM	05/09/2015	2:31:00 PM	Sandplain				Brown			Spinifex	Shrubs	Trees	No
M704	414940	7610024		JG	PM	05/09/2015	2:38:00 PM	Sandplain				Red	Orange		Spinifex	Trees		No
M705	420078	7609848		JG	PM	05/09/2015	2:46:00 PM	Sandplain				Red	Brown		Spinifex	Trees		No
M706	427708	7611638		JG	PM	05/09/2015	2:56:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M707	430154	7609785		JG	PM	05/09/2015	3:04:00 PM	Sandplain	Playa			Grey	Brown		Spinifex			No
M708	434997	7609991		NK	AS	06/09/2015	6:56:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Shrubs		No
M709	440126	7609836	yes	NK	AS	06/09/2015	2:38:00 AM	Colluvium				Brown	Orange		Spinifex	Shrubs		No
M710	445070	7610195		NK	AS	06/09/2015	12:28:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M711	450027	7610056		NK	JG	11/09/2015	6:31:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M712	455077	7609979		NK	JG	11/09/2015	6:37:00 AM	Colluvium				Brown	Orange		Spinifex			No
M713	459996	7610004		NK	JG	09/09/2015	9:34:00 AM	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	No
M714	325010	7605110		NK	AS	04/09/2015	10:46:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M715	329901	7605015		NK	AS	04/09/2015	10:54:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M716	334928	7604978		NK	AS	04/09/2015	11:01:00 AM	Sandplain	Residual/relict			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M717	339980	7605020		NK	AS	04/09/2015	11:10:00 AM	Colluvium	Sandplain	Dunes		Brown	Red		Spinifex	Trees		No
M718	344996	7605243		NK	AS	04/09/2015	11:18:00 AM	Colluvium	Sandplain			Brown	Orange		Spinifex	Trees		No
M719	349982	7605022		NK	AS	04/09/2015	11:27:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M720	354857	7605018		NK	AS	04/09/2015	11:34:00 AM	Residual/relict	Playa	Sandplain		Brown	Grey		Spinifex	Shrubs		No
M721	360038	7605022		NK	AS	04/09/2015	11:44:00 AM	Sandplain				Brown	Grey		Spinifex	Shrubs		No
M722	364996	7604971	Yes	NK	AS	04/09/2015	11:55:00 AM	Sandplain				Brown	Red		Spinifex	Trees		Yes
M723	369898	7605007		NK	AS	04/09/2015	12:05:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs	Trees	Yes
M724	373336	7606569		NK	AS	04/09/2015	12:13:00 PM	Colluvium	Sandplain			Brown	Red		Spinifex	Shrubs		No
M725	380035	7605092		AS	PM	08/09/2015	2:48:00 PM	Sandplain	Sheetwash			Brown	Orange		Shrubs	Spinifex		Yes
M726	384674	7604737		PM	AS	10/09/2015	3:34:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M727	390084	7605047		NK	JG	13/09/2015	7:23:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes

Mag?	from	to	Sampled?	SURFACE REGOLITH										Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%							
No	0.20	2.00	No	0	0	100	0							15			60	25	Sedimentary	
				0	0	85	15											100		
				1	0	100	0							10				90		
				1	0	100	0											100		
				1	0	100	0											100		
				1	20	20	60		100									100		
				1	30	30	40		100						10			90		
				1	0	100	0											100		
				0	0	90	10													
				0	0	95	5							10				90		
				0	0	90	10							5				95		
				0	0	90	10							10				90		
				0	0	90	10											100		
				0	0	80	20											100		
				0	0	100	0										20	80	Sedimentary	
				0	0	100	0							20				80		
				0	20	70	10	20				80						100		
				0	0	80	20											100		
				0	0	80	20											100		
?	0.10	0.50	No	0	30	60	10	80			20							100	Sedimentary	
				0	40	20	40	85				15						100		
				0	50	25	25	100										100		
				0	40	30	30	10			90							100		
				0.5	25	60	15	80			20						50	50		
?	0.10	1.00	No	0	20	70	10	20			80						20	80	Sedimentary	
				0	10	60	30	20	20		60						50	50		
				0	5	95	0	50				50		10			40	50		
				0	50	30	20	60			40						70	30		
				1	10	80	10	100						10				90		
No	0.20	2.00	Yes	1	30	30	40			100								100	Sedimentary	Quartzite
				1	0	70	30											100		
				1	0	80	20											100		
				1	20	20	60		100									100		
				1	0	90	10											100		
				0	0	90	10											100		
				5	50	40	10	10			90							100		
				0	0	90	10											100		
				0	0	100	0											100		
				2	50	30	20	10			80	10					50	50		
				1	50	40	10	20			60	20		20				80		
				0	0	80	20											100		
				0	0	100	0											100		
				2	40	60	0	30			60	10						100		
				1	30	70	0	20			80							100		
Yes	0.20	0.50	Yes	0	20	80	0	10			80	10						100		
				0	0	60	40							20				80		
				1	50	20	30		100									100		
				3	40	60	0		100									100		
				0	10	60	30	100										100		
?	0.50	5.00	No	0	40	10	50	100										100	Sedimentary	
				1	60	40	0	10			90							100		
				0.5	50	40	10	60			40						50	50		
				0	5	85	10	100										100		
				0	30	70	0	30			70						30	70		

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	0	85	15						5			70	25	Sedimentary				
90	0	80	20										100					
90	0	80	20						10				90					
90	0	80	20										100			Sedimentary	50	90
90	0	100	0										100					
30	40	30	30		100					20			80					
10	40	30	30		100					20			80					
90	0	90	10										100					
90	0	80	20						0	80	20		100					
90	0	90	10										100					
90	0	80	20						5				95					
70	0	85	15										100					
90	0	70	30										100					
90	0	70	30										100					
90	0	80	20									20	80	Sedimentary				
90	0	80	20										100					
90	0	40	60										100					
60	0	70	30									20	80	Sedimentary				
90	0	60	40										100					
30	60	20	30				100						100	Sedimentary		Sedimentary	2	E
50	0	40	60										100					
60	40	20	40				100						100	Sedimentary				
10	40	20	40				100						100	Sedimentary		Sedimentary	300	SE
80	15	55	30	80			20					50	50	Sedimentary				
80	20	65	15	25			75					50	50	Sedimentary		Ferricrete	5	W
70	10	40	50	20	20		60					50	50	Sedimentary				
30	0	70	30									50	50	Sedimentary				
90	40	25	35	50			50					70	30	Sedimentary				
70	30	50	20	10			90						100					
90	10	70	20			100							100	Sedimentary	Vein quartz		100	90
90	0	60	40										100					
90	0	60	40										100					
30	40	10	50		100					20			80					
60	10	80	10		100					10			90					
90	0	90	10										100					
25	50	30	20				100						100	Sedimentary	Quartzite	Sedimentary	300	E
90	0	80	20										100					
90	0	85	15										100					
50	30	30	40				90	10				50	50	Sedimentary		Sedimentary	300	S
80	0	80	20										100					
90	0	60	40										100					
90	0	60	40										100					
90	10	60	30				100						100	Sedimentary				
35	0	40	60										100					
40	10	50	40				100						100	Sedimentary		Sedimentary	5	N
60	0	40	60										100					
10	30	20	50		100								100					
10	20	70	10		100								100					
90	20	40	40	100									100					
50	20	10	70	100									100					
	50	10	40				100						100	Sedimentary		Sedimentary	500	NW
4	40	40	20	60			40					50	50	Sedimentary				
40	0	85	15										100					
50	30	60	10	30			70					40	60	Sedimentary				

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe			Damp	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Clay patches at surface
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Sedimentary outcrop to the east and west
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Carbonate nodules at surface and downhole. Augered to 30 cm
	Dune		Dry	Unconsolidated	Y	Carbonate nodules at surface and at depth
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Hit compacted sand at 70 cm deep (BOH)
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Compacted clay/silt at 60 cm
Fe	Dune		Dry	Unconsolidated	Y	Compacted clay/silt at 90 cm (bottom of hole)
Fe			Dry	Unconsolidated	Y	Low laying sandstone outcrops. Shallow hole, hit rock at 30 cm
Fe			Dry	Unconsolidated	Y	Hard to drill, compacted clay/silt
Fe	Channel		Dry	Unconsolidated	Y	Hard to drill, hit rock at 60 cm
Fe	Outcrop		Dry	Unconsolidated	Y	Low-lying sandstone outcrops. Shallow hole, hit rock at 10 cm
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Ferricrete outcrop 5 m away
Fe	Dune		Dry	Unconsolidated	Y	Compacted sand
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Chert fragments at surface and downhole
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Carbonate nodules at surface
	Lake	Dune	Dry	Unconsolidated	Y	Gypsum patches at surface and downhole
Fe	Lake		Damp	Unconsolidated	Y	
Fe	Dune		dry	Unconsolidated	Y	Drilled 2x to fill bags
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Damp	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Clastic surface. Hit rock at 50 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	Hit something at 80 cm (BOH)
Fe	Dune		Dry	Unconsolidated	Y	Compacted clay patches on surface
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Ferruginized clasts on surface + quartz-vein clasts
Fe	Breakway		Dry		Y	Colluvium from the back slope of a breakaway
Fe	Outcrop		Dry	Unconsolidated	Y	Shallow hole (drill 2 holes). Bedrock subsurface. Quartz-vein clasts on surface
Fe	Dune		Dry	Unconsolidated	Y	Compacted clay at 60 cm
Fe	Lake		Dry	Cemented	Y	Calcrete patches on surface around small lakes. Shallow hole
	Calcrete		Dry	Cemented	Y	Calcrete patches with pockets of sand
Fe			Dry	Unconsolidated	Y	Lag only 10%
Fe	Claypan		Dry	Unconsolidated	Y	Clay at 50 cm. Claypan with lag
Fe	Dune		Dry	Unconsolidated	Y	Very shallow hole
			Dry	Unconsolidated	Y	Abundant ferruginized lithics at surface and downhole. Some ferricrete fragments
Fe	Dune		Dry	Indurated	Y	Compacted (clay) at 40 cm. Two holes
Fe	Dune		Dry	Unconsolidated	Y	

METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M728	395092	7605106	Yes	NK	JG	13/09/2015	7:30:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M729	400067	7605022		NK	JG	13/09/2015	6:57:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs	Trees	No
M730	406087	7603166	yes	NK	AS	06/09/2015	7:49:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M731	409944	7605002		NK	AS	06/09/2015	7:40:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M732	415035	7605061		NK	AS	06/09/2015	7:33:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M733	419371	7606341		NK	AS	06/09/2015	7:26:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M734	425069	7605087		NK	AS	06/09/2015	7:18:00 AM	Sandplain	Dunes	Outcrop		Brown	Yellow		Shrubs	Spinifex		Yes
M735	430004	7604991		NK	AS	06/09/2015	7:11:00 AM	Playa	Sandplain	Dunes		Brown	Orange		Spinifex	Trees	Shrubs	No
M736	434760	7604993		NK	AS	06/09/2015	7:03:00 AM	Playa	Sandplain			Brown	Grey		Spinifex	Trees	Shrubs	No
M737	440025	7605184		NK	AS	06/09/2015	2:29:00 PM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
M738	444927	7605155		NK	AS	06/09/2015	12:36:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M739	450064	7604734		NK	JG	11/09/2015	8:16:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M740	455465	7604775		NK	JG	11/09/2015	8:10:00 AM	Sandplain	Colluvium			Brown	Orange		Spinifex	Shrubs	Trees	No
M741	460081	7604957		NK	JG	11/09/2015	8:03:00 AM	Colluvium	Sheetwash			Brown	Orange		Spinifex	Shrubs		No
M742	465132	7605001		NK	JG	09/09/2015	9:40:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M743	470085	7605048		NK	JG	09/09/2015	9:48:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M744	324944	7599659		NK	AS	04/09/2015	2:12:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M745	329908	7600058		NK	AS	04/09/2015	2:04:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M746	335048	7599960		NK	AS	04/09/2015	1:59:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M747	340126	7599967	Y	NK	AS	04/09/2015	1:46:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M748	345061	7599984		NK	AS	04/09/2015	1:38:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M749	350147	7599830		NK	AS	04/09/2015	1:30:00 PM	Residual/relict	Sandplain	Dunes		Brown	Grey		Spinifex	Shrubs		No
M750	355048	7600002		NK	AS	04/09/2015	1:21:00 PM	Sandplain	Residual/relict			Brown	Grey		Spinifex	Shrubs		No
M751	360027	7600060		NK	AS	04/09/2015	1:13:00 PM	Sandplain	Residual/relict			Brown	Grey		Spinifex	Shrubs		No
M752	365066	7600001		NK	AS	04/09/2015	1:05:00 PM	Sandplain	Residual/relict			Brown	Grey		Spinifex	Shrubs		No
M753	370075	7600015		NK	AS	04/09/2015	12:58:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
M754	375042	7600013		NK	AS	04/09/2015	12:50:00 PM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		Yes
M755	379939	7600187		AS	PM	08/09/2015	2:41:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M756	385044	7600144		PM	AS	10/09/2015	1:28:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M757	390034	7600111		NK	JG	13/09/2015	7:16:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
M758	394660	7600116		NK	JG	13/09/2015	7:10:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M759	400105	7599703		NK	JG	13/09/2015	7:04:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs		No
M760	406961	7600225		NK	AS	04/09/2015	1:38:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Grass	No
M761	410129	7599724		NK	AS	06/09/2015	1:44:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M762	414915	7599976		NK	AS	06/09/2015	1:51:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M763	419900	7600091		NK	AS	06/09/2015	1:59:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M764	424955	7599989		NK	AS	06/09/2015	2:07:00 PM	Colluvium	Playa			Brown	Orange		Spinifex	Shrubs		No
M765	430287	7600178		NK	AS	06/09/2015	2:14:00 PM	Sandplain	Dunes			Brown	Orange		Shrubs	Spinifex		No
M766	434998	7599970		NK	AS	06/09/2015	2:21:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M767	440003	7599947		NK	AS	06/09/2015	12:52:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M768	445054	7600121		NK	AS	06/09/2015	12:43:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M769	450006	7600047		NK	JG	11/09/2015	10:11:00 AM	Sheetwash	Sandplain			Brown	Orange		Grass	Spinifex		No
M770	454612	7600180		NK	JG	11/09/2015	10:18:00 AM	Sandplain	Sheetwash	Colluvium		Brown	Orange		Spinifex	Shrubs	Trees	No
M771	460038	7600000		NK	JG	11/09/2015	10:23:00 AM	Colluvium	Sandplain	Colluvium		Brown	Orange		Spinifex	Shrubs		No
M772	465115	7600117	Yes	NK	JG	11/09/2015	10:30:00 AM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Shrubs		No
M773	469411	7599835		NK	JG	11/09/2015	10:39:00 AM	Sheetwash	Sandplain			Brown	Orange		Grass	Spinifex		No
M774	475035	7600002		NK	JG	09/09/2015	9:55:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M775	325143	7594876		NK	AS	04/09/2015	2:19:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M776	329991	7595310		NK	AS	04/09/2015	2:31:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M777	334990	7595215		AS	PM	08/09/2015	7:52:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M778	340036	7595102		AS	PM	08/09/2015	7:59:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M779	345069	7595014		AS	PM	08/09/2015	8:06:00 AM	Sandplain	Outcrop			Brown			Spinifex	Shrubs		No
M780	350076	7594836		AS	PM	08/09/2015	8:13:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M781	354875	7594890		AS	PM	08/09/2015	8:20:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M782	359776	7594517		AS	PM	08/09/2015	8:27:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No

Mag?	from	to	Sampled?	SURFACE REGOLITH				Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %													
?	0.20	0.50	Yes	0	0	90	10										10	90	Sedimentary	
				0	10	20	70				100						80	20	Sedimentary	
				0	20	70	10				100						10	90	Sedimentary	
				1	20	70	10	60			40							100		
				0	0	90	10							10				90		
No	0.20	0.50	No	0	5	90	10				100							100		
				0	25	60	15	10			90							100	Sedimentary	
				0	0	70	30											100		
				2	20	20	60		100									100		
				5	80	20	0				100							100	Sedimentary	
				0	10	80	10	20			80							100		
				0	0	90	10										30	70	Sedimentary	
				0	20	80	0	15			85						20	80	Sedimentary	
				1	40	50	10	20			80						50	50	Sedimentary	Quartzite
				2	80	20	0	30			70						50	50	Sedimentary	
				0	0	80	20											100		
				0	0	100	0											100		
				0	10	90	0	100										100		
				0	15	65	20	40			40	20						100	Sedimentary	
				0	0	90	10							10				90	Sedimentary	
				0	0	100	0											100		
				2	50	10	40		70	10	20							100		
				0	0	80	20											100		
				2	50	30	20		100									100		
Yes	0.20	0.50	No	2	50	50	0		100									100		
				1	50	50	0	10			90							100	Sedimentary	
				0	30	70	0	50			50							100		
				0	20	70	10	50			50						50	50	Sedimentary	
				0	0	90	10											100		
				?	0.20	2.00	Yes	1	40	50	10	70					20	80	Sedimentary	
				0	0	100	0										20	80	Sedimentary	
				0	0	20	80										80	20	Sedimentary	
				0	20	70	10		80			20								
				0	0	90	10											100		
?	0.20	2.00	Yes	0	15	75	10	10			90							100	Sedimentary	
				0	0	95	5											100		
				5	90	10	0				100							100	Sedimentary	Quartzite
				0	30	20	50	10	50		40							100	Sedimentary	
				0	0	100	0											100		
				0	0	90	10							10				90		
				2	20	80	0	10			80	10						100	Sedimentary	
				0	10	80	10	10			90						50	50	Sedimentary	
				0	5	85	10				100						20	80	Sedimentary	
				0	20	70	10	20			80						50	50	Sedimentary	
				0	15	75	10	20			80						70	20	Sedimentary	
				0	30	60	10	10		10	80						50	50	Sedimentary	
				2	50	50	0	20			80							100	Sedimentary	
				0	0	90	10											100		
				0	0	100	0											100		
				1	5	85	10				100						50	50	Sedimentary	
				1	0	85	15										50	50		
				0	40	50	10	30			70						50	50	Sedimentary	
				1	10	75	15	50			50						50	50	Sedimentary	
				1	5	85	10	50			50						50	50	Sedimentary	
				1	10	80	10	50			50						50	50	Sedimentary	

DOWNHOLE REGOLITH										OUTCROP NEARBY								
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	0	85	15									10	90	Sedimentary				
90	10	20	70				100					80	20	Sedimentary				
15	0	70	30										100					
50	20	60	20	60			40						100					
40	0	90	10										100					
40	0	90	10										100					
40	10	70	20				100						100	Sedimentary		Sedimentary	200	SE
90	0	80	20										100					
15	50	10	85		100								100					
10	85	10	5				100						100	Sedimentary		Sedimentary	500	SW
90	0	80	20										100					
90	0	90	10									30	70	Sedimentary				
90	10	90	0	50			50					20	80	Sedimentary		Sedimentary	500	NE
40	30	45	25				100					50	50	Sedimentary	Quartzite	Sedimentary	1500	NW
60	20	40	40		10		90					50	50	Sedimentary		Sedimentary	2000	NW
90	0	70	30										100			Sedimentary	50	W
90	0	80	20															
90	0	70	30										100					
50	10	30	60				100						100					
90	5	75	20				100						100	Sedimentary				
90	0	80	20										100					
30	50	10	40		70	10	20						100					
35	0	70	30										100					
60	30	30	40		100								100					
40	50	40	10		100								100					
30	30	10	60		100							100		Sedimentary				
30	50	30	20				100						100					
85	20	70	10	50		50						50	50	Sedimentary				
90	0	85	15										100					
90	30	40	30	60		40						50	50	Sedimentary				
90	0	90	10									30	70	Sedimentary				
50	0	20	80									80	20	Sedimentary				
30	20	60	20		100													
50	0	80	20										100					
35	10	50	40	10			90						100	Sedimentary				
90	0	100	0										100					
35	30	60	10				100						100	Sedimentary	Quartzite	Sedimentary	200	E
60	20	30	50		100								100					
90	0	90	10										100					
70	0	80	20										100	Quartzite	Vein quartz	Quartzite	4	S
15	20	80	0				100						100	Sedimentary?		Sedimentary	500	S
60	0	40	60									50	50	Sedimentary				
90	0	80	20									50	50	Sedimentary		Sedimentary	2000	E
30	20	50	30	15	10		75					50	50	Sedimentary		Sedimentary	3000	SE
70	10	70	20	20			80					50	50	Sedimentary		Sedimentary	100	W
50	10	55	30	10			90					50	50	Sedimentary		Sedimentary	600	NE
90	50	50	0	20			80						100	Sedimentary				
90	0	70	30										100					
90	0	80	20										100					
90	5	85	10				100					50	50	Sedimentary				
90	0	85	15									50	50					
15	40	50	10				100					50	50	Sedimentary		Sedimentary	0	0
90	25	60	15	50			50					50	50	Sedimentary				
20	15	60	25	50			50					50	50	Sedimentary				
85	20	65	15				100					50	50	Sedimentary				

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Indurated	Y	Shallow hole. Compacted sand
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Indurated	Y	Compacted sand at 40 cm (BOH)
Fe	Dune		Dry	Indurated	Y	Compacted/cemented sand at 40 cm (BOH)
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Lake	Dune	Dry	Unconsolidated	Y	Calcrete nearby
Fe	Lake	Dune	Dry	Cemented	Y	Calcrete on the edge of a lake
Fe			Dry	Unconsolidated	Y	Hit rock at 10 cm
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Surface covered in clastic rock fragments
Fe	Channel		Dry	Unconsolidated	Y	Sample between outcrop and creek
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Stony at 50 cm downhole
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Cemented	Y	
Fe	Calcrete		Dry	Unconsolidated	Y	Small patches of calcrete on sandplain nearby. Bottom of hole 35 cm
Fe			Dry		Y	Calcrete
Fe			Dry		Y	Calcrete patches on sandplain nearby. Calcrete at bottom of hole
Fe	Dune		Dry	Unconsolidated	Y	Surface mostly clastics. Compacted clay profile, bottom of hole at 30 cm
Fe	Dune		Dry	Unconsolidated	Y	Clasts/gravels at 30 cm
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Well-sorted quartz sand
Fe	Dune		Dry	Unconsolidated	Y	Mud cracks on surface
Fe	Dune		Dry	Cemented	Y	Hit calcrete at 30 cm deep (BOH)
Fe	Dune		Dry	Unconsolidated	Y	Compacted sand at 50 cm (BOH)
Fe			Dry	Unconsolidated	Y	Compacted sand at 35 cm (BOH)
Fe	Calcrete	Dune	Dry	Unconsolidated	Y	
Fe	Lake		Dry	Unconsolidated	Y	
Fe	Dune	Lake	Dry	Unconsolidated	Y	Small clay pan
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Hit rock at 70 cm deep (BOH). Vein-quartz clast on surface
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Compacted sand at 60 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Drilled 3 x holes to fill bags. Gripping at 15 cm deep
Fe			Dry	Unconsolidated	Y	70 cm hit something
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Lithic surface
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	More orange-red with depth
			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Some minor lag. Weathered lithic fragments at surface
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Stony and clay rich at 20 cm
Fe			Dry	Unconsolidated	Y	Small lithic fragments and granules, <1 cm



METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M783	366906	7598172	YES	AS	PM	08/09/2015	8:32:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M784	370202	7595024		AS	PM	08/09/2015	8:46:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M785	375248	7594987		AS	PM	08/09/2015	8:53:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M786	379864	7595077		AS	PM	08/09/2015	2:33:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M787	387968	7598098		PM	AS	10/09/2015	3:22:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M788	389305	7594542		PM	AS	10/09/2015	1:16:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M789	395052	7595020		PM	AS	12/09/2015	2:47:00 PM	Residual/relict				Brown	Red		Spinifex	Shrubs		yes
M790	400052	7595154		PM	AS	12/09/2015	2:20:00 PM	Sandplain	Sheetwash			Brown			Grass	Spinifex	Trees	no
M791	404514	7594964		PM	AS	12/09/2015	2:13:00 PM	Sandplain	Sheetwash			Brown	Orange		Grass	Spinifex	Trees	no
M792	410039	7594953		PM	AS	12/09/2015	1:52:00 PM	Sandplain	Dunes			Brown	Grey		Spinifex	Trees		no
M793	415303	7595295		PM	AS	12/09/2015	1:45:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M794	420164	7595871		PM	AS	12/09/2015	11:43:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		no
M795	425028	7595030		PM	AS	12/09/2015	11:35:00 AM	Outcrop				Brown			Shrubs	Trees		no
M796	430042	7595012		AS	PM	12/09/2015	10:25:00 AM	Sandplain	Dunes			Brown			Spinifex	Shrubs	Trees	no
M797	435059	7595138		AS	PM	12/09/2015	10:19:00 AM	Sandplain	Residual/relict			Brown	Grey		Spinifex	Trees	Shrubs	no
M798	440134	7595070		AS	PM	12/09/2015	7:53:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		no
M799	444964	7595846		AS	PM	12/09/2015	7:47:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		no
M800	450051	7595366		AS	PM	12/09/2015	6:33:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs		no
M801	455174	7595047		NK	JG	11/09/2015	2:22:00 PM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M802	459954	7594953		NK	JG	11/09/2015	2:15:00 PM	Sandplain	Colluvium			Brown	Orange		Shrubs	Spinifex		No
M803	465106	7594946		NK	JG	11/09/2015	1:00:00 PM	Sandplain	Colluvium			Brown	Orange		Spinifex	Shrubs		No
M804	469886	7595071		NK	JG	11/09/2015	12:54:00 PM	Colluvium				Brown	Orange		Spinifex	Shrubs	Trees	No
M805	475027	7595008		NK	JG	11/09/2015	10:47:00 AM	Sheetwash	Sandplain			Brown	Orange		Spinifex	Shrubs	Trees	No
M806	480065	7594978		NK	JG	09/09/2015	10:03:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M807	325068	7590075		AS	PM	08/09/2015	7:30:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M808	330008	7590290		AS	PM	08/09/2015	7:38:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs	Trees	No
M809	335023	7590055		AS	PM	08/09/2015	7:45:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M810	339761	7590058	YES	AS	PM	08/09/2015	10:25:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
M811	344993	7590533		AS	PM	08/09/2015	10:18:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M812	350357	7589988		AS	PM	08/09/2015	10:10:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M813	354908	7589851		AS	PM	08/09/2015	10:04:00 AM	Sandplain				Brown	Orange		Shrubs			No
M814	360009	7589911		AS	PM	08/09/2015	9:56:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M815	365019	7590035		AS	PM	08/09/2015	9:48:00 AM	Sandplain	Outcrop			Brown	Orange		Spinifex	Shrubs		Yes
M816	369679	7590212		AS	PM	08/09/2015	9:41:00 AM	Sandplain				Red	Brown		Spinifex	Shrubs		Yes
M817	374970	7589956		AS	PM	08/09/2015	9:02:00 AM	Sandplain				Brown	Orange		Grass	Spinifex	Shrubs	Yes
M818	379908	7589968		AS	PM	08/09/2015	2:25:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
M819	383893	7590657	YES	PM	AS	10/09/2015	3:06:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M820	390059	7589908		PM	AS	12/09/2015	2:40:00 PM	Outcrop				Brown			Spinifex	Shrubs		No
M821	394884	7590052		PM	AS	12/09/2015	2:33:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		yes
M822	399908	7590273		PM	AS	12/09/2015	2:26:00 PM	Sandplain	Sheetwash			Brown			Spinifex	Trees		No
M823	404726	7589822		PM	AS	12/09/2015	2:08:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M824	410250	7589843	YES	PM	AS	12/09/2015	1:58:00 PM	Outcrop	Dunes			Brown			Spinifex	Trees		
M825	415005	7589752		PM	AS	12/09/2015	1:38:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M826	419949	7589581		PM	AS	12/09/2015	11:52:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M827	425464	7589957		PM	AS	12/09/2015	11:29:00 AM	Sandplain	Outcrop			Brown	Orange		Spinifex	Shrubs		No
M828	429973	7590086		AS	PM	12/09/2015	10:32:00 AM	Sheetwash	Outcrop			Brown	Orange					Yes
M829	435017	7590047		AS	PM	12/09/2015	10:10:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M830	439887	7590258		AS	PM	12/09/2015	8:00:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
M831	445100	7590064		AS	PM	12/09/2015	7:40:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M832	449986	7590176		AS	PM	12/09/2015	6:40:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M833	455119	7589984		NK	JG	11/09/2015	2:28:00 PM	Colluvium				Brown	Orange		Spinifex	Shrubs		No
M834	460112	7590017		NK	JG	11/09/2015	2:10:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M835	465378	7590011		NK	JG	11/09/2015	2:28:00 PM	Colluvium	Outcrop	Sandplain		Brown	Orange		Spinifex	Shrubs		No
M836	469969	7589960		NK	JG	11/09/2015	12:47:00 PM	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	No

Mag?	from	to	Sampled?	SURFACE REGOLITH										Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%							
No	0.10	0.20	No	0.5	30	65	5	80			20						50	50	Sedimentary	
			No	0.5	10	80	10	80			20						50	50	Sedimentary	
		0.20	No	1	25	65	10	80			20						50	50	Sedimentary	
			No	0.5	30	60	10	80			20						50	50	Sedimentary	
		0.10	0.80	Yes	1	15	65	20	100									100		
					60	30	10	20			80						50	50	Sedimentary	
	2.00	8.00	no	3	60	30	10	100									20	80	Sedimentary	
				0	0	80	20											100		
				0	0	80	20											100		
					0	90	10										20	80		
				0	0	90	10											100		
				0	0	90	10										5	95		
				0	70	25	5				100								Sedimentary	
				1	0	80	20											100		
				1	10	80	10		100									100		
				0.5	0	85	15										20	80	Sedimentary	
	0.20	1.00	No	1	0	80	20										20	80	Sedimentary	
				0.5	0	50	50											100		
				0	15	75	10	50			50						40	60	Sedimentary	
				0	0	40	10										30	70	Sedimentary	
				0	15	75	10	20			80						20	80	Sedimentary	
				2	80	20	0	10			90						80	20	Sedimentary	
				0	15	75	10	50			40	10					50	50	Sedimentary	
				0	15	65	20	10			80	10						100		
				1	5	80	15				100						50	50	Sedimentary	
				0	0	90	10										50	50		
	0.20	3.00	Yes	1	10	80	10	50			50						50	50	Sedimentary	
				0.2	0	90	10										50	50		
				2	50	35	15	70			30						50	50	Sedimentary	
				0.5	0	90	10										50	50		
				0.5	5	85	10										50	50		
	0.20	2.00	Yes	1	25	60	15	40			60						50	50	Sedimentary	
	0.20	2.00	Yes	2	30	60	10	80			20						50	50	Sedimentary	
			No	1	10	80	10	50			50						50	50	Sedimentary	
			No	1	30	65	15	50			50						50	50	Sedimentary	
	0.10	1.50	Yes	0.5	45	45	10	90			10						50	50	Sedimentary	
No	0.10	0.60	Yes	1	40	50	10	100										100		
				0	80	15	5	10			90						50	50	Sedimentary	
	0.10	0.30	no	0.5	5	85	10	100										100		
				0	5	75	25					100						100		
				0	0	85	15											100		
				2	85	10	5	20			80						20	80	Sedimentary	
				0	0	85	15											100		
				0	0	90	10											100		
				5	40	50	10	20			80								Sedimentary	
				1	30	60	10	10			90							100		
				0.3	10	80	10	50			50							100		
				0.5	0	90	10										20	80	Sedimentary	
				0.5	0	80	20										20	80	Sedimentary	
				0.5	0	75	25										20	80	Sedimentary	
				2	50	40	10	10			90						50	50	Sedimentary	
				0	5	90	5	100									20	80	Sedimentary	
				2	40	60	0	15			85						70	30	Sedimentary	
				0	10	75	15	50			50						50	50	Sedimentary	

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
80	10	50	40	80			20					50	50	Sedimentary				
70	10	75	15	50	30		20					50	50	Sedimentary				
80	15	50	35	80			20					50	50	Sedimentary				
15	25	55	20	50			50					50	50	Sedimentary				
60	20	60	20	100									100					
70	15	60	25	50			50					20	80	Sedimentary				
5	70	20	10	90			10					20	80	Sedimentary				
25	0	80	20										100					
40	0	80	20										100					
25	0	90	10									20	80					
90	0	85	15										100					
90	0	85	15									5	95					
5	40	50	10				100							Sedimentary		Sedimentary	0	360
75	15	55	30		100								100					
80	30	40	30		100								100					
90	0	85	15									20	80	Sedimentary				
90	0	80	20									20	80	Sedimentary				
60	10	40	40				100						100	Sedimentary				
80	30	50	20	30			70					50	50	Sedimentary				
90	0	90	10									30	70	Sedimentary		Sedimentary	500	SW
90	10	65	25	30			70					50	50	Sedimentary				
50	50	30	20				100					80	20	Sedimentary		Sedimentary	10	W
90	10	60	30	20			80					50	50	Sedimentary				
70	0	50	50										100					
90	5	70	25				100					50	50	Sedimentary				
90	0	90	10									50	50					
90	20	60	20	50			50					50	50	Sedimentary				
90	0	75	25									50	50					
10	40	40	20	70			30					50	50	Sedimentary				
90	0	85	15									50	50					
75	5	65	30									50	50					
80	30	50	20	40			60					50	50	Sedimentary				
10	40	40	20	80			20					50	50	Sedimentary		Sedimentary	80	180
90	10	65	25	50			50					50	50	Sedimentary				
85	25	45	30	50			50					50	50	Sedimentary				
80	40	40	20	70			30					50	50	Sedimentary				
80	15	60	25	100									100					
5	80	10	10				100					50	50	Sedimentary		Sedimentary	0	360
60	20	65	15	90			10						100	Sedimentary				
20	0	75	25										100					
90	0	85	15										100					
10	75	15	20				100					20	80	Sedimentary		Sedimentary	0	360
50	0	80	20										100					
90	0	90	10										100					
20	25	65	10	30			70							Sedimentary				
10	40	50	10	10			90						10	Sedimentary		Sedimentary	0	360
90	10	70	20	50			50						100	Sedimentary				
85	0	85	15									20	80	Sedimentary				
90	0	80	20									20	80	Sedimentary				
90	0	80	20									20	80	Sedimentary				
40	20	60	20				100					50	50	Sedimentary		Sedimentary	10	NW
90	0	85	15									50	50	Sedimentary				
15	40	60	0	10			90					70	30	Sedimentary		Sedimentary	2	W
60	15	65	25	50			50					50	50	Sedimentary				

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMENTS
	Units nearby1	Units nearby2	Features1	Features2		
2nd coat					Photo (Y/N)	Comments
Fe	Dune		Dry	Unconsolidated	Y	Very-fine lag of Fe-rich granules and nodules. Clay rich and compacted at depth
	Dune		Dry	Unconsolidated	Y	Some carbonate fragments in hole, along with Fe-rich nodules
			Dry	Unconsolidated	Y	Compacted at 80 cm
Fe			Dry	Unconsolidated	Y	Hard surface. Some in situ ferricrete
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Ferruginized lithic fragments on surface
	Dune		Dry	Unconsolidated	Y	Ferruginous duricrust and ferricrete, blocky and nodules in sand
			Dry		Y	Compacted clay at 25 cm. Two holes
	Dune		Dry		Y	Clay compacted at 40 cm
	Dune		Dry	Unconsolidated		Compacted at 25 cm
Fe	Dune		Dry	Unconsolidated	Y	Dunes 200 m north and south
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
CO3			Dry	Unconsolidated	Y	Calcrete/carbonate at BOH
CO3	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
	Lake		Dry	Unconsolidated	Y	Edge of lake 100 m away
			Dry	Unconsolidated	Y	Stony bottom of hole
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Small claypan on sandplain
			Dry	Unconsolidated	Y	Slightly more orange-red with depth
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Ferruginous granules at bottom of hole
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Ferruginized lithic fragments, and Fe-rich nodules. Site on a slight rise. Five shallow auger holes
			Dry	Unconsolidated	Y	Slightly more red with depth
			Dry	Unconsolidated	Y	Stones at bottom of hole
Fe			Dry	Unconsolidated	Y	Ferruginized lithic fragments and Fe-rich nodules at surface and downhole
Fe			Dry	Unconsolidated	Y	Six shallow holes augered
			Dry	Unconsolidated	Y	Some very fine lag
Fe			Dry	Unconsolidated	Y	Minor stones at bottom of hole
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
	Channel		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Clay cement throughout. Peds in bag. 3 holes
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Mainly quartzite
Fe	Dune		Dry	Unconsolidated	Y	Clay compacted at 50 cm; dune 100 m north
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Site moved
Fe			Dry	Unconsolidated	Y	Abundant angular lithics at surface and downhole
Fe	Lake		Dry	Unconsolidated	Y	
	Lake	Dune	Dry	Unconsolidated	Y	Lake 100 m away; clayey at BOH
	Lake		Dry	Unconsolidated	Y	Lake/playa 100 m away
			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Clastics on surface. Outcrops near sand dune
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Subcropping rock
Fe			Dry	Unconsolidated	Y	

METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M837	475079	7589873	YES	NK	JG	11/09/2015	11:00:00 AM	Sandplain	Sheetwash	Residual/relict		Brown	Orange		Spinifex	Trees		Yes
M838	479727	7590327		NK	JG	11/09/2015	10:53:00 AM	Sheetwash	Sandplain			Brown	Orange		Spinifex	Shrubs		No
M839	484951	7590151		NK	JG	09/09/2015	10:11:00 AM	Colluvium				Brown	Red		Spinifex	Trees	Shrubs	No
M840	324614	7585256		AS	PM	08/09/2015	10:52:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M841	329640	7585145		AS	PM	08/09/2015	10:45:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M842	335176	7585033		AS	PM	08/09/2015	10:38:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M843	339865	7585676		AS	PM	08/09/2015	10:32:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M844	345246	7584782		AS	PM	08/09/2015	11:32:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M845	349857	7585053		AS	PM	08/09/2015	11:44:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees	Shrubs	No
M846	355056	7585077		AS	PM	08/09/2015	12:41:00 PM	Sandplain				Brown	Red		Spinifex	Shrubs		No
M847	360035	7584990		AS	PM	08/09/2015	12:48:00 PM	Sandplain				Brown	Orange		Spinifex			Yes
M848	367415	7586790		AS	PM	08/09/2015	12:57:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M849	370178	7584921		AS	PM	08/09/2015	1:06:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M850	375040	7584999		AS	PM	08/09/2015	1:14:00 PM	Colluvium	Sheetwash			Brown	Orange		Spinifex	Shrubs		Yes
M851	380115	7584971		AS	PM	08/09/2015	2:18:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
M852	386891	7586212	YES	PM	AS	10/09/2015	3:00:00 PM	Sandplain		Sandplain		Brown	Orange		Spinifex	Shrubs	Trees	Yes
M853	389639	7584950		PM	AS	10/09/2015	2:15:00 PM	Dunes	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
M854	395018	7585245		PM	AS	10/09/2015	2:06:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M855	400105	7585143		PM	AS	10/09/2015	1:58:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M856	405307	7585236		PM	AS	10/09/2015	1:52:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M857	410063	7585384		PM	AS	10/09/2015	1:47:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M858	414984	7585151		PM	AS	12/09/2015	1:31:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M859	420140	7585005		PM	AS	12/09/2015	12:46:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M860	425002	7584938		PM	AS	12/09/2015	11:23:00 AM	Colluvium				Brown			Spinifex	Shrubs		No
M861	430039	7584900		AS	PM	12/09/2015	10:38:00 AM	Outcrop				Brown			Spinifex			Yes
M862	435010	7585002		AS	PM	12/90/2015	10:04:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Shrubs		No
M863	439753	7584679		AS	PM	12/09/2015	8:08:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Grass	No
M864	445073	7585061		AS	PM	12/09/2015	7:33:00 AM	Sandplain	Outcrop			Brown	Orange		Spinifex			No
M865	450118	7584973		AS	PM	12/09/2015	6:45:00 AM	Sandplain				Brown	Red		Spinifex			no
M866	455135	7585199	YES	NK	JG	11/09/2015	2:34:00 PM	Sandplain	Dunes	Dune		Brown	Orange		Spinifex	Shrubs		No
M867	459996	7585003		NK	JG	11/09/2015	2:02:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M868	465061	7585262		NK	JG	11/09/2015	1:12:00 PM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
M869	470196	7584953		NK	JG	11/09/2015	12:40:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M870	475080	7584885		NK	JG	11/09/2015	11:08:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		Yes
M871	479904	7584776		NK	JG	09/09/2015	2:08:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M872	485026	7585077		NK	JG	09/09/2015	2:01:00 PM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
M873	490170	7584796		NK	JG	09/09/2015	10:18:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M874	495215	7585013		NK	JG	09/09/2015	10:23:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M875	325246	7580358		AS	PM	08/09/2015	10:58:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M876	330248	7580433		AS	PM	08/09/2015	11:05:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
M877	334913	7580296		AS	PM	08/09/2015	11:12:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M878	339897	7580312		AS	PM	08/09/2015	11:18:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Grass	Shrubs	No
M879	345124	7580183		AS	PM	08/09/2015	11:25:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M880	350045	7580247	YES	AS	PM	08/09/2015	1:58:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
M881	354993	7580064		AS	PM	08/09/2015	1:51:00 PM	Sandplain				Brown	Red		Spinifex	Trees		No
M882	358463	7578882		AS	PM	08/09/2015	1:43:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
M883	362544	7578648		AS	PM	08/09/2015	1:46:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M884	371337	7578186		AS	PM	08/09/2015	1:29:00 PM	Sheetwash	Outcrop			Brown	Orange		Trees	Spinifex	Grass	No
M885	374920	7580240		AS	PM	08/09/2015	1:22:00 PM	Colluvium				Brown	Yellow		Spinifex			Yes
M886	380277	7580004		PM	AS	10/09/2015	12:35:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M887	385033	7579932		PM	AS	10/09/2015	12:43:00 PM	Colluvium	Outcrop			Brown	Red		Spinifex	Trees		Yes
M888	389533	7579921		PM	AS	10/09/2015	12:49:00 PM	Dunes	Sandplain			Brown	Orange		Spinifex	Shrubs	Trees	No
M889	394880	7580177		PM	AS	10/09/2015	12:55:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M890	400027	7579999		PM	AS	10/09/2015	1:02:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No

Mag?	from	to	Sampled?	SURFACE REGOLITH											Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%								
yes	0.20	1.00	Yes	0	20	80	0	70				30					20	80	Sedimentary		
				0	50	40	10	20			80						80	20	Sedimentary		
				5	80	20	0				100							100	Sedimentary		
				0	0	85	15									50	50				
				0	0	90	10									50	50				
				0	0	85	15									50	50				
				0	0	85	15									50	50				
				0.5	0	90	10									50	50				
				0.5	0	85	15									50	50				
				0.5	0	75	25									50	50				
	0.20	4.00	Yes	1	50	30	20	80				20				50	50	Sedimentary			
	0.20	0.50	Yes	0.2	40	40	20	80				20				50	50	Sedimentary			
	0.20	0.40	Yes	0.5	30	60	10	70				30				50	50	Sedimentary			
	0.50	5.00	No	0.5	50	30	20	20				80				50	50	Sedimentary			
	0.20	2.00	Yes	0.5	30	60	10	80				20				50	50	Sedimentary			
	0.10	0.30	No	0	15	75	10	100									100				
				0	0	90	10										100				
				0	0	90	10										100				
	0.10	1.00	Yes	1	20	75	5	100									100				
				0	0	85	15										100				
				0	0	90	10										100				
				0.5	15	70	15	50				30	20				100	Vein Qtz			
				0	5	85	10	100									100				
				0	85	5	10					100						Sedimentary			
			No	1	70	20	10					100					100	Sedimentary			
				0.5	0	90	10									20	80	Sedimentary			
				0.5	0	85	15									20	80	Sedimentary			
				0.5	10	80	10	20				80					100	Sedimentary			
				0.5	0	85	15									20	80	Sedimentary			
				0	5	85	10	100								60	40	Sedimentary			
				0	15	75	10	20				80				20	80	Sedimentary			
				2	50	50	0					100				50	50	Sedimentary	Quartzite		
				0	10	75	15	80				20				50	50	Sedimentary			
yes	0.20	0.50	No	0	15	75	10	50				50				30	70	Sedimentary			
				0	5	85	10	100						15		85					
				0	20	50	10				100					100	Sedimentary				
				0	0	100	0									100					
				0	0	100	0									100					
				0	0	90	10									50	50				
				0	0	90	10									50	50				
				0.5	0	90	10									50	50				
				0.5	0	85	15									50	50				
				0.5	0	90	10									50	50				
	0.20	2.00	Yes	0.5	30	60	10	50				50				50	50	Sedimentary			
				0.5	0	80	20									50	50				
	0.20	0.50	No	0.5	15	65	20	50				50				50	50	Sedimentary			
				0.5	15	75	10	30				70				50	50	Sedimentary			
				0	10	35	55					100				50	50	Sedimentary			
	0.50	5.00	No	1	70	20	10	20				80				50	50	Sedimentary			
	0.10	1.00	Yes	0.5	40	40	20	90				10				20	80	Sedimentary			
			No	1	80	15	5	30				70				30	70	Sedimentary			
				0	0	90	10										100				
				0	0	95	5										100				
				0	0	90	10										100				

DOWNHOLE REGOLITH										OUTCROP NEARBY								
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	20	50	30	60			40					20	80	Sedimentary		Sedimentary	300	SE
20	20	50	30	10			90					80	20	Sedimentary				
40	60	20	20				100						100	Sedimentary		Sedimentary	100	N
90	0	85	15									50	50					
90	0	80	20									50	50					
90	0	75	25									50	50					
90	0	75	25									50	50					
90	0	75	25									50	50					
90	0	80	20									50	50					
60	0	65	35									50	50					
10	40	30	30	80			20					50	50	Sedimentary				
75	25	45	30	20			80					50	50	Sedimentary				
30	30	40	30	50			50					50	50	Sedimentary				
80	25	50	25				100					50	50	Sedimentary				
50	30	45	25	80			20					50	50	Sedimentary				
90	0	80	20										100					
10	10	85	5				100						100	Sedimentary		Sedimentary	0	360
90	0	85	15										100					
15	30	60	10	50			50					10	90	Sedimentary				
80	0	80	20										100					
90	0	85	15										100					
70	20	60	20	30			30	40					100	Vein quartz				
70	0	80	20										100					
30	20	50	30				100							Sedimentary				
5	40	45	15				100						100	Sedimentary		Sedimentary	0	360
80	0	75	25									20	80	Sedimentary				
70	0	85	15									20	80	Sedimentary				
20	20	65	15				100						100	Sedimentary		Sedimentary	10	90
20	0	80	20									20	80	Sedimentary				
90	0	70	30									60	40	Sedimentary		Sedimentarty	2000	NW
60	60	20	20		15	15		70				80	20	Sedimentary	Quartzite	Sedimentarty	20	W
40	30	50	20				100					50	50	Sedimentary		Sedimentarty	2	W
80	10	65	25	60			40					60	40	Sedimentary				
90	5	75	20	50			50					50	50	Sedimentary				
90	0	80	20						15				85					
10	15	70	15				100						100	Sedimentary		Sedimentary	2	E
90	0	100	0										100					
90	0	100	0										100					
90	0	85	15									50	50					
90	0	80	20									50	50					
90	0	75	25									50	50					
90	5	75	20									50	50					
90	0	80	20									50	50					
45	25	60	15	50			50					50	50	Sedimentary				
90	0	80	20									50	50					
75	15	50	35	20			80					50	50	Sedimentary				
65	15	55	30				100					50	50	Sedimentary				
70	10	40	50				100					50	50	Sedimentary		Sedimentary	20	0
5	40	30	30				100					50	50	Sedimentary		Sedimentary	100	45
20	25	55	20	80			20					20	80	Sedimentary				
10	80	10	10	20			80		30			70		Sedimentary				
90	0	90	10										100					
90	0	90	10										100					
90	0	85	15										100					

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
2nd coat						
Fe			Dry	Unconsolidated	Y	Fine-grained lag is magnetic
Fe			Dry	Unconsolidated	Y	Two holes to fill bags; hit rock at 20 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	Surface covered in clastics, ferruginized sandstone. Drilled three holes to fill bags
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	More red with depth
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Calcrete about 20 m from site, and downhole at 60 cm
Fe			Dry	Unconsolidated	Y	Five shallow auger holes
Fe			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Three auger holes
Fe			Dry	Unconsolidated	Y	Ferruginized lithic fragments at surface and downhole
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Scattered fine-grained ferruginous granules on surface
	Dune		Dry	Unconsolidated	Y	Sand cover on quartzite outcrop, adjacent to dune
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 200 m north and south
Fe			Dry	Unconsolidated	Y	Stony below surface
Fe	Dune		Dry	Unconsolidated	Y	Clay compacted at 80 cm. Dunes 200 m north and south
Fe	Dune		Dry	Unconsolidated	Y	Dune about 100 m north
			Dry	Unconsolidated	Y	
			Dry	indurated	Y	Clay compacted at 70 cm
			Dry		Y	Heavy angular to subrounded lithic cover
Fe			Dry	Unconsolidated	Y	Proximal colluvium
			Dry	Unconsolidated	Y	Compacted at bottom and slightly damp
	Dune		Dry	Unconsolidated	Y	Sandplain patch surrounded by lake/playa. Base is clay rich and compacted
Fe			Dry	Unconsolidated	Y	Very stony at bottom of hole. Quartzite
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Hit rock at 60 cm (BOH)
Fe	Dune		Dry	Unconsolidated	Y	Hit rock at 40 cm (BOH)
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Subcropping sandstone. Drilled five holes of 10 cm deep to fill bags
Fe	Dune		Dry	Unconsolidated	Y	Well-sorted quartz sand
Fe	Dune	Claypan	Dry	Unconsolidated	Y	Well-sorted quartz sand
			Dry	Unconsolidated	Y	More red with depth
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Stony at bottom of hole
Fe	Channel		Dry	Unconsolidated	Y	Stony at bottom of hole
Fe			Dry	Unconsolidated	Y	Slight depression near area of outcrop
Fe			Dry	Unconsolidated	Y	Abundant ferruginized lithic fragments at surface and downhole
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Heavy cover of lithic fragments
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 100 m north and south
	Dune		Dry	Unconsolidated	Y	Dunes about 500 m north and south. Site moved
	Dune		Dry	Unconsolidated	Y	Dunes about 150 m north and south



METADATA								REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M891	404528	7580075	YES	PM	AS	10/09/2015	1:07:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M892	410147	7580085		PM	AS	10/09/2015	1:39:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M893	415006	7580035		PM	AS	12/09/2015	1:25:00 PM	Sheetwash	Playa			Brown			Grass	Spinifex		No
M894	420069	7579969		PM	AS	12/09/2015	12:52:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M895	425177	7580129		PM	AS	12/09/2015	11:16:00 AM	Sandplain	Sheetwash			Brown			Spinifex	Shrubs	Trees	No
M896	430133	7579991		AS	PM	12/09/2015	10:44:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
M897	435058	7579930		AS	PM	12/09/2015	9:58:00 AM	Sandplain	Playa			Brown			Shrubs	Grass		No
M898	440098	7579485		AS	PM	12/09/2015	8:15:00 AM	Sandplain	Playa			Brown			Spinifex	Shrubs		No
M899	445213	7580164		AS	PM	12/09/2015	7:26:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		Np
M900	450035	7579989	YES	AS	PM	12/09/2015	6:52:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M901	455109	7579912		NK	JG	11/09/2015	2:40:00 PM	Colluvium	Sandplain			Brown	Orange		Spinifex	Shrubs	Trees	No
M902	459851	7579824		NK	JG	11/09/2015	1:57:00 PM	Colluvium	Sheetwash			Brown	Red		Spinifex	Shrubs		No
M903	465186	7580256		NK	JG	11/09/2015	1:21:00 PM	Colluvium	Sandplain			Brown	Red		Spinifex	Shrubs		No
M904	469803	7579904		NK	JG	11/09/2015	11:47:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Trees		No
M905	475078	7580044		NK	JG	11/09/2015	11:14:00 AM	Colluvium				Brown	Orange		Spinifex	Trees		No
M906	480051	7580041		NK	JG	09/09/2015	2:14:00 PM	Sandplain	Claypan			Brown	Yellow		Shrubs	Spinifex	Trees	No
M907	485009	7580485		NK	JG	09/09/2015	1:53:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M908	490082	7580049		NK	JG	09/09/2015	1:22:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M909	495043	7579870		NK	JG	09/09/2015	11:03:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M910	500044	7580053		NK	JG	09/09/2015	10:31:00 AM	Playa	Claypan			Brown	Grey		Shrubs			No
M911	324773	7574660	YES	AS	PM	10/09/2015	6:32:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M912	330058	7575570		AS	PM	10/09/2015	7:42:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M913	334909	7575705		AS	PM	10/09/2015	7:50:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M914	340012	7574908		AS	PM	10/09/2015	8:45:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
M915	345087	7575021		PM	AS	10/09/2015	9:24:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M916	350089	7575120		PM	AS	10/09/2015	9:45:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		yes
M917	355033	7575017		PM	AS	10/09/2015	9:50:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M918	360030	7575008		PM	AS	10/09/2015	10:09:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		yes
M919	367990	7574211		PM	AS	10/09/2015	10:28:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	yes
M920	370122	7574996	YES	PM	AS	10/09/2015	10:34:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		no
M921	373032	7576430		PM	AS	10/09/2015	12:08:00 PM	Colluvium	Outcrop			Brown	Red		Spinifex	Shrubs	Trees	yes
M922	380189	7574890		PM	AS	10/09/2015	12:01:00 PM	Colluvium	Outcrop			Brown	Red		Shrubs	Trees		yes
M923	384855	7574616		PM	AS	10/09/2015	11:53:00 AM	Dunes	Sandplain			Brown	Orange		Shrubs	grass	Trees	no
M924	390317	7575038		PM	AS	10/09/2015	11:46:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	yes
M925	394787	7575113		PM	AS	10/09/2015	11:39:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		yes
M926	400019	7574150		PM	AS	10/09/2015	11:33:00 AM	Sandplain	Dunes			Brown	Grey		Spinifex	Shrubs	Trees	No
M927	405013	7575451		PM	AS	10/09/2015	1:13:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M928	410367	7575294		PM	AS	10/09/2015	1:32:00 PM	Sheetwash	Sandplain			Brown	Grey		Spinifex	Shrubs		No
M929	415163	7575071	YES	PM	AS	12/09/2015	1:19:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	Yes
M930	420080	7574362		PM	AS	12/09/2015	1:01:00 PM	Sandplain	Outcrop			Brown	Orange		Spinifex	Shrubs		No
M931	425015	7574784		PM	AS	12/09/2015	11:09:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M932	429841	7574905		AS	PM	12/09/2015	10:50:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M933	435068	7574761		AS	PM	12/09/2015	8:46:00 AM	Sandplain				Brown	Orange		Spinifex			No
M934	439951	7574867		AS	PM	12/09/2015	8:21:00 AM	Sandplain				Brown	Orange		Spinifex			No
M935	445040	7575059		AS	PM	12/09/2015	7:19:00 AM	Sandplain				Brown			Spinifex	Trees		No
M936	450257	7574865		AS	PM	12/09/2015	6:59:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs	Spinifex	No
M937	455045	7574615		NK	JG	11/09/2015	1:50:00 PM	Colluvium	Outcrop			Brown	Orange		Spinifex			No
M938	460088	7574889	YES	NK	JG	11/09/2015	1:29:00 PM	Colluvium	Sandplain			Brown	Orange		Spinifex	Shrubs		No
M939	464910	7575002		NK	JG	11/09/2015	11:39:00 AM	Sandplain	Sheetwash			Brown	Red		Spinifex	Shrubs	Trees	No
M940	470128	7574991		NK	JG	11/09/2015	11:21:00 AM	Sandplain	Sheetwash			Brown	Orange		Shrubs	Spinifex	Trees	No
M941	475037	7575139		NK	JG	09/09/2015	2:40:00 PM	Sandplain				Brown	Orange		Shrubs	Spinifex		No
M942	480039	7574920		NK	JG	09/09/2015	2:20:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
M943	485027	7574799		NK	JG	09/09/2015	1:47:00 PM	Sandplain	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
M944	490042	7575012		NK	JG	09/09/2015	1:29:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No

Mag?	from	to	Sampled?	SURFACE REGOLITH				Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %													
				0	0	90	10											100		
	0.10	0.90	Yes	1	30	60	10	100										100		
				0.5	5	60	35	10				90					40	60	Vein quartz	
	0.10	0.40	Yes		20	75	5	60			40						20	80		
				0	0	80	20										20	80		
	0.20	5.00	No	0.5	20	60	20	50			50							100	Sedimentary	
				0.5	0	80	20											100		
				0.5	0	75	25										20	80	Sedimentary	
				0.2	0	75	25										20	80	Sedimentary	
				0.5	0	85	15										20	80	Sedimentary	
				0	20	75	15	20			80						50	50	Sedimentary	
				2	70	10	20	20			80						80	20	Sedimentary	Quartzite
				2	60	40	0	15			85						50	50	Sedimentary	
				0	40	40	20	15			75	10					70	30	Sedimentary	
				2	50	40	10	10			90						50	50	Sedimentary	
				0	0	75	25										20	80		
				0	10	80	10	10				90						100		
				0	5	85	10	10				90						100		
				0	0	90	10											100		
				0	10	30	60		100									100		
				0.5	0	90	10										30	70		
				1	0	80	20										30	70		
				1	0	85	15										30	70		
				1	20	70	10				80	20					30	70	Sedimentary	
				0	0	80	20										20	80		
	0.50	2.00	no	1	40	40	20	100												
				0	0	90	10											100		
	0.10	0.30	no	0.5	10	85	5	100										100		
	0.10	0.50	Yes	1	15	80	5	100										100		
				0.5	5	85	10	10					90					100		
			no	2	80	15	5	20			80						50	50	Sedimentary	
			no	1	80	15	5	70			30						80	20	Sedimentary	
				0	0	90	10											100		
	0.10	0.50	Yes	0	15	80	5	100										100		
			no	0	15	80	5	80			20							100	Sedimentary	
				0	0	80	20										20	80		
	0.10	1.00	Yes	1	10	85	5	100										100		
				0	0	80	20										20	80		
	0.10	0.20	No	0.5	10	85	5	100										100		
				0.3	20	75	15				100							100	Sedimentary	
				0	0	85	15											100		
				1	0	90	10										20	80	Sedimentary	
				0.5	5	90	5		100									100		
				1	25	60	15				20	80					20	80	Sedimentary	
				0.5	0	80	20											100		
				0.2	0	75	25											100		
				5	80	20	0				100						80	20	Sedimentary	
				0	5	80	15	100									20	80	Sedimentary	
				0	0	95	5							20			60	20	Sedimentary	
				0	0	80	20										50	50	Sedimentary	
				0	0	75	25											100		
				0	40	30	30					100						100	Vein quartz	
				0	10	80	10				20	80						100	Sedimentary	
				0	0	75	25											100		

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	0	85	15										100					
20	60	30	10	90			10					10	90	Sedimentary				
20	0	60	40									40	60					
40	50	40	10	60			40					20	80	Sedimentary				
35	0	80	20									20	80					
80	20	55	25	50			50						100	Sedimentary				
15	0	70	30										100					
85	0	55	45									20	80	Sedimentary				
90	0	80	20									20	80	Sedimentary				
90	0	85	15									20	80	Sedimentary				
50	20	60	20		10		90					60	40	Sedimentary		Sedimentary	1000	NE
70	60	10	20				100					80	20	Sedimentary	Quartzite	Sedimentary	500	W
60	40	20	40				100					100		Sedimentary		Sedimentary	5	W
80	40	40	20	10			80	10				70	30	Sedimentary		Sedimentary	2	E
20	50	30	20	10			90					50	50	Sedimentary		Sedimentary	50	E
70	0	70	30										100					
90	10	65	25					100					100					
90	0	90	10										100					
90	0	70	30										100					
	10	30	60		100								100					
90	0	80	20									30	70					
90	0	80	20									30	70					
90	0	85	15									30	70					
70	10	50	40				100					30	70	Sedimentary				
90	0	80	20									20	80					
15	40	30	30	100														
90	0	85	15										100					
90	0	85	15										100					
90	15	75	10	100									100					
60	10	75	10	10			90						100	Sedimentary				
10	60	15	25	20			80					50	50	Sedimentary				
15	80	15	5	80			20					80	20	Sedimentary		Sedimentary	0	360
90	0	85	15										100					
75	15	75	10	100									100					
90	25	55	20		80		20			50			50	Sedimentary				
45	0	80	20							40			60					
30	20	75	25	90			10					20	80	Sedimentary				
15	0	80	20									20	80					
90	10	85	5	100									100					
60	5	80	15				100						100	Sedimentary				
90	0	80	20										100					
90	0	85	15									20	80	Sedimentary				
10	15	45	40		100								100					
10	25	60	15				20	80				20	80	Sedimentary				
90	0	75	25										100			Sedimentary	250	90
80	5	45	50				100						100	Sedimentary				
20	70	10	20				100					100		Sedimentary		Sedimentary	2	W
90	0	90	10									20	80	Sedimentary				
90	0	60	40						10			60	30	Sedimentary				
70	0	60	40						10			50	40	Sedimentary				
50	0	40	60										100					
90	10	35	55					100					100	Vein quartz				
90	0	60	40										100			Sedimentary	200	W
90	0	70	30										100					

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe	Dune		Dry	Unconsolidated	Y	Dunes about 200 m north and south
Fe			Dry	Unconsolidated	Y	
			Dry		Y	Playa-sheetwash. Clay-rich, with vein quartz and ferruginous nodules as a deflation lag
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	Compacted clay in hole. Only augered to 35 cm
			Dry	Unconsolidated	Y	Small ferruginous nodules and larger lithic fragments at surface and downhole
	Lake		Dry	Unconsolidated	Y	Sand ridge with playa. Hard compacted base
	Dune		Dry	Unconsolidated	Y	Clay rich at the bottom of the hole. One carbonate fragment at bottom. Regolith at bottom of hole is slightly damp
			Dry	Unconsolidated	Y	
	Dune		d	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Drilled three holes to fill bags. Hit rock at 20 cm (BOH)
Fe			Dry	Unconsolidated	Y	On the edge of a small claypan
Fe	Lake		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
	Dune		Damp	Unconsolidated	Y	Drilled two holes to fill bags. Salt bush
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Dunes about 200 m north and south
Fe			Dry	indurated	Y	Coarse pisolitic nodules at site and downhole
Fe			Dry	Unconsolidated	Y	Homogenous
Fe			Dry	Unconsolidated	Y	Very fine surface lag
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Weathered ferruginous lithics up to 1.5 cm downhole
Fe			Dry	Unconsolidated	Y	Abundant angular ferruginous lithics up to 12 cm at surface
Fe			Dry	Unconsolidated	Y	Stony patches of ferruginous quartz sandstone
Fe	dune		Dry	Unconsolidated	Y	Dunes north and south 180 m, site moved
Fe	dune		Dry	Unconsolidated	Y	
	dune		Dry	Unconsolidated	Y	Carbonate fragments at hole
	Dune		Dry	Unconsolidated	Y	Three holes augered. Powdery carbonate at surface and downhole
Fe	dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Possible bedrock at 15 cm. Thin veneer. Site moved from claypan
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Rock at 60 cm (quartzite). Site moved
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Very small nodules and granules at the surface and downhole. Hard surface at about 10 cm – sedimentary rock or possibly silcrete
			Dry	Unconsolidated	Y	
			Damp	Unconsolidated	Y	Rocky and damp at bottom of hole
Fe			Dry	Unconsolidated	Y	Lithic/outcrop surface. Drilled four shallow holes to fill bags
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Claypan		Dry	Unconsolidated	Y	Near claypan
Fe	Claypan		Damp	Unconsolidated	Y	Compacted silty sand at 70 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	Compacted sand at 50 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Termite mounds

METADATA								REGOLITH-LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52	Northing	Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
M945	495004	7575045	YES	NK	JG	09/09/2015	10:56:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M946	499909	7574963		NK	JG	09/09/2015	10:37:00 AM	Sandplain	Dunes			Brown	Orange		Grass	Shrubs		No
M947	325032	7569947		AS	PM	10/09/2015	6:39:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M948	330042	7570098		AS	PM	10/09/2015	7:36:00 AM	Sandplain	Dunes			Brown	Orange					Yes
M949	335175	7570057		AS	PM	10/09/2015	7:57:00 AM	Sandplain	Dunes			Brown			Spinifex	Trees		No
M950	340032	7570036		AS	PM	10/09/2015	8:36:00 AM	Sandplain	Dunes						Spinifex	Shrubs		No
M951	345061	7569902		PM	AS	10/09/2015	9:30:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M952	350010	7570045		PM	AS	10/09/2015	9:36:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
M953	355032	7570033		PM	AS	10/09/2015	9:57:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M954	360043	7570011		PM	AS	10/09/2015	10:03:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M955	365082	7570002		PM	AS	10/09/2015	10:16:00 AM	Sandplain	Sheetwash			Brown	Red		Spinifex	Trees		Yes
M956	370249	7570021		PM	AS	10/09/2015	10:24:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		Yes
M957	373033	7572100		PM	AS	10/09/2015	10:42:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	Yes
M958	379942	7570037		PM	AS	10/09/2015	11:02:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M959	385079	7570017		PM	AS	10/09/2015	11:08:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M960	390047	7570095		PM	AS	10/09/2015	11:14:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M961	394883	7570449		PM	AS	10/09/2015	11:21:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M962	399391	7570164		PM	AS	10/09/2015	11:26:00 AM	Sandplain	Dunes			Brown	Red		Shrubs	Spinifex	Trees	No
M963	405193	7569880		PM	AS	10/09/2015	1:19:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M964	410057	7569996		PM	AS	10/09/2015	1:25:00 PM	Sandplain	Dunes			Brown	Orange					No
M965	415092	7570068		PM	AS	12/09/2015	1:13:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
M966	420233	7569998		PM	AS	12/09/2015	1:07:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M967	424160	7570084		PM	AS	12/09/2015	11:03:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
M968	430330	7569899	YES	AS	PM	12/09/2015	10:57:00 AM	Sandplain				Brown			Spinifex	Trees	Shrubs	No
M969	435015	7569889		AS	PM	12/09/2015	8:37:00 AM	Sandplain	Playa			Brown	Orange		Trees	Spinifex	Shrubs	No
M970	439711	7570405		AS	PM	12/09/2015	8:29:00 AM	Outcrop	Colluvium			Brown	Orange		Shrubs	Spinifex		No
M971	444939	7570181		AS	PM	12/09/2015	7:13:00 AM	Sandplain	Sheetwash			Brown	Orange		Spinifex	Trees		No
M972	450201	7569754		AS	PM	12/09/2015	7:05:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
M973	455165	7570105		NK	JG	11/09/2015	1:45:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M974	460093	7570070		NK	JG	11/09/2015	1:36:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
M975	464983	7570084		NK	JG	11/09/2015	11:33:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M976	470110	7569977		NK	JG	11/09/2015	11:27:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M977	475062	7570063		NK	JG	09/09/2015	2:33:00 PM	Sandplain				Brown	Yellow		Shrubs			No
M978	480148	7569895		NK	JG	09/09/2015	2:26:00 PM	Sandplain				Brown	Red		Spinifex	Trees	Shrubs	No
M979	485011	7570001		NK	JG	09/09/2015	1:40:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
M980	490023	7569911		NK	JG	09/09/2015	1:34:00 PM	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	No
M981	495029	7569904		NK	JG	09/09/2015	10:50:00 AM	Sandplain				Brown	Red		Spinifex	Trees		No
M982	500042	7569971		NK	JG	09/09/2015	10:44:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Shrubs		No
M983	324939	7565331		AS	PM	10/09/2015	6:45:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M984	330050	7565020		AS	PM	10/09/2015	7:27:00 AM	Sandplain	Dunes			Brown			Spinifex			Yes
M985	335172	7564763		AS	PM	10/09/2015	8:05:00 AM	Sandplain	Sheetwash			Brown	Grey		Spinifex			Yes
M986	340278	7565236		AS	PM	10/09/2015	8:28:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		Yes
M987	325096	7560827		AS	PM	10/09/2015	6:51:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
M988	330039	7560086		AS	PM	10/09/2015	7:19:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M989	335052	7560084		AS	PM	10/09/2015	8:11:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M990	325030	7554931		AS	PM	10/09/2015	6:58:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M991	330063	7555028		AS	PM	10/09/2015	7:13:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
M992	335019	7554659		AS	PM	10/09/2015	8:17:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
M993	325036	7550150		AS	PM	10/09/2015	7:05:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			No
E8279A	449782	7625143		PM	JG	05/09/2105	12:07:00 PM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
E8279B	450047	7325121		NK	AS	06/09/2015	10:19:00 AM	Sandplain	Dunes									
E8281	449178	7629650		PM	JG	05/09/2015	11:59:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Trees	Shrubs	No
E8283	449493	7635078		PM	JG	05/09/2015	10:12:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
E8285	450081	7640117		NK	JG	16/09/2015	10:36:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No

Mag?	from	to	Sampled?	SURFACE REGOLITH																	
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2	
	0.20	2.00	Yes	0	20	70	10					10	90								
				0	0	90	10														
				0.5	0	80	20														
				1	20	60	20	70			30							20	70	Sedimentary	
				0.5	0	80	20														
				1	5	80	15	50			50							30	70	Sedimentary	
				0	0	90	10											10	90		
				0.5	20	60	20	100										10	90		
				0	0	90	10												100		
				0	5	85	10												100		
	0.10	0.60	Yes	1	80	20		100										100			
				0.5	5	85	10	100										100			
				0.5	5	80	15	100										100			
				0	0	85	15											100			
				0	0	85	15											100			
				0	0	85	15											100			
				0	0	90	10											100			
				0	0	95	5											100			
				0	0	90	10											100			
				0	0	90	10											100			
	0.10	3.00	Yes	0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	0	90	10											100			
				0	15	80	5		100									100			
				0	0	90	10											100			
	0.10	0.30	No	0.5	0	75	25										20	80	Sedimentary		
				0.5	5	90	5											100	Sedimentary		
				2	30	40	30				100						20	80	Sedimentary		
				0.5	0	90	10											100			
				1	0	90	10											100			
				0	5	90	5	20			20	60					20	80	Sedimentary		
				0	5	85	10	100									50	50	Sedimentary		
				0	5	85	10	50			50						30	70	Sedimentary		
				0	5	80	15	10			90						50	50	Sedimentary		
				2	50	50	0	10	10		60	20					50	50	Sedimentary	Vein quartz	
0.10	0.30	Yes	0	0	40	60											100				
			0	5	65	30	10				90						100				
			0	10	80	10				100							100				
			0	10	80	10	10				90			10			90				
			0	0	90	10											100				
			0.5	0	80	20										30	70				
			2	60	25	15	60			40						30	70	Sedimentary			
			1	30	40	30	20			75	5					80	20	Sedimentary			
			1	20	65	15	80			20				15		15	70	Sedimentary			
			1	0	80	20							5			30	65				
0.10	1.50	Yes	0.5	0	80	20										30	70				
			1	0	80	20										30	70				
			0.5	0	80	20										30	70				
			1	0	80	20										30	70				
			1	0	80	20										20	80				
			0.5	0	80	20										30	70				
			1	0	85	15										30	70				
			1	10	80	10	50			50						30	70				
			0	0	90	10											100				
			0	0	90	10											100				
0.10	1.50	Yes	0	0	90	10										100					
			0	0	90	10										100					
			0	5	85	10				100					50	50	Sedimentary				

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
90	5	80	15					100					100					
90	0	100	0										100					
90	0	70	30									30	70					
80	30	50	20	50			50					30	70	Sedimentary				
90	5	70	25				100					30	70	Sedimentary				
50	40	45	15	20			80					30	70	Sedimentary				
90	0	85	15									10	90					
30	20	60	20	100								10	90					
90	5	80	15	50			50						100					
90	5	85	10	100									100					
25	30	40	30	90			10						100	Sedimentary		Sedimentary	300	90
90	5	85	15	50			50						100	Sedimentary				
50	20	60	20	100									100					
90	5	75	20				100					50	50	Sedimentary		Sedimentary	200	270
90	0	80	20										100					
90	0	85	15										100					
90	0	85	15										100					
90	0	90	10										100					
90	0	85	15										100					
60	5	80	15	100									100					
90	0	85	15										100					
5	25	60	15		100								100					
90	5	80	15	100									100					
45	5	65	30		100							20	80	Sedimentary				
80	0	50	40										100	Sedimentary				
15	25	50	25				100					20	80	Sedimentary		Sedimentary	0	360
90	0	85	15										100					
90	0	85	15										100					
90	0	90	10									20	80	Sedimentary				
70	0	30	70									50	50	Sedimentary				
90	5	70	25	50			50					30	70	Sedimentary				
90	5	45	50				100					80	20	Sedimentary				
80	30	40	30				50	50				50	50	Sedimentary	Vein quartz	Sedimentary	400	90
90	5	20	75					100					100					
60	0	50	50										100					
90	0	80	20										100					
90	10	70	20	10				90	10				90					
90	0	100	0										100					
90	0	75	25									30	70					
15	50	25	25	60			40					50	50	Sedimentary				
50	30	25	45				100					80	20	Sedimentary				
20	35	50	15	40			60					30	70	Sedimentary				
90	0	80	20									30	70					
90	0	75	25									40	60					
90	0	70	30									30	70					
90	0	80	20									20	80					
90	0	80	20									30	70					
90	0	80	20									30	70					
80	10	60	30	20			80					50	50					
90	0	90	10										100					
90	5	80	15				100						100	Sedimentary				
90	0	90	10										100					
70	0	90	10									50	50	Sedimentary				

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe	Dune		Dry	Unconsolidated	Y	Gypsum crystals amounts for 90% nodules/granules on surface
Fe			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Ferruginous nodules at bottom of hole
			Dry	Unconsolidated	Y	Granules at bottom of hole
Fe			Dry	Unconsolidated	Y	Rounded, ferruginized lithic fragments and nodules downhole
			Dry	Unconsolidated	Y	
Fe			Dry		Y	Clay compacted. Three holes, each to about 30 cm
Fe			Dry	Unconsolidated	Y	Termite mounds
Fe			Dry	Unconsolidated	Y	Minor ferruginous granules
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Damp	Unconsolidated	Y	Termite mounds
Fe	Dune		Dry	Unconsolidated	Y	Dune 100 m to north and 400 m to south
Fe	Dune		Dry	Unconsolidated	Y	Site moved due to vegetation (landing issues)
	Dune		Dry	Unconsolidated	Y	Sand is coarser here, as dunes only 100 m north and south
Fe	Dune		Dry	Unconsolidated	Y	Dunes 300 m north and south
Fe	Dune		Dry	Unconsolidated	Y	Stony layer at 60 cm
	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Carbonate patches at surface and downhole. Augered to 5 cm
Fe			Dry	Unconsolidated	Y	Homogenous sandplain
			Dry	Unconsolidated	Y	Carbonate at bottom of hole
			Dry	Unconsolidated	Y	Various depressions nearby, filled with water. Clay-rich and compacted at bottom of hole at site
			Dry	Unconsolidated	Y	Proximal colluvium. Quartzite. Large lithic fragments at surface. Rock sample taken
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsoliadted	Y	
Fe			Dry	Unconsoliadted	Y	
Fe			Dry	Unconsoliadted	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Surface covered in clastics (carbonate, qtz vein, ferruginized sandstone). Hit rock at 80 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Compacted sand at 60 cm deep (BOH)
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Well-sorted quartz sand
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Very stony. Abundant ferruginized lithic fragments and rare quartz pebbles downhole
Fe	Dune		Dry	Unconsolidated	Y	Coarse-grained sandstone and conglomerate at the surface and white-grey siltstone fragments at the bottom of the hole
Fe			Dry	Unconsolidated	Y	Ferruginized lithic fragments and ferruginous nodules at depth; stony
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Compacted at depth
			Dry	Unconsolidated	Y	Dunes about 100 m north and south
	Dune		Dry	Unconsolidated	Y	Sandplain near playa. Rare lithics downhole
			Dry	Unconsolidated	Y	Dunes about 100 m north and south. Site moved
Fe	Dune		Dry	Unconsolidated	Y	



METADATA		Easting		Northing				REGOLITH–LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52		Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
E8519	454939	7619895		NK	AS	06/09/2015	11:53:00 AM	Playa	Dunes			Brown	Grey		Spinifex	Shrubs		No
E8521	454767	7625042		NK	AS	06/09/2015	10:26:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Trees	shrubs	No
E8523	453920	7631067		PM	JG	05/09/2015	11:45:00 AM	Playa	Sandplain			Brown	Orange		Spinifex	Trees		No
E8525	455178	7635042		PM	JG	05/09/2015	10:21:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
E8527	455096	7640006		NK	JG	16/09/2015	10:42:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
E8529	455021	7644787		NK	JG	16/09/2015	10:24:00 AM	Residual/relict	Sandplain	Dunes	Playa	Brown	Yellow		Spinifex	Shrubs		No
E8531	455021	7649909		NK	JG	16/09/2015	6:31:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
E8759	460252	7615087		NK	JG	11/09/2015	6:45:00 AM	Playa	Dunes	Sandplain		Brown	Orange		Shrubs	Spinifex		No
E8761	459421	7618405		NK	AS	06/09/2015	11:45:00 AM	Playa	Dunes			Brown	Orange		Spinifex	Shrubs		No
E8763	459123	7624998		NK	AS	06/09/2015	10:39:00 AM	Playa	Residual/relict			Brown	Yellow		Spinifex	Shrubs		No
E8765	459991	7630165		PM	JG	05/09/2015	11:37:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Shrubs	Trees	No
E8767	459983	7635932		PM	JG	06/09/2015	10:26:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Shrubs	Trees	No
E8769	461986	7638757		NK	JG	16/09/2015	10:49:00 AM	Colluvium	Playa			Brown	Orange		Spinifex	Shrubs		No
E8771	460007	7645005	YES	NK	JG	16/09/2015	10:17:00 AM	Sandplain	Playa			Brown	Red		Spinifex	Shrubs		No
E8773	460258	7649925		NK	JG	16/09/2015	6:38:00 AM	Colluvium	Outcrop			Brown	Orange		Shrubs	Grass		Yes
E8999	465021	7609965		NK	JG	11/09/2015	7:55:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
E9001	465231	7614989		NK	JG	12/09/2015	6:51:00 AM	Playa	Dunes	Sandplain		Brown	Orange		Spinifex	Shrubs		No
E9003	463915	7618298		NK	AS	06/09/2015	11:34:00 AM	Playa				Brown	Grey		Spinifex			No
E9005	465221	7624746		NK	AS	06/09/2015	10:48:00 AM	Playa	Dunes	Sandplain		Brown	Orange		Spinifex	Shrubs		No
E9007	464137	7629498		PM	JG	05/09/2015	11:29:00 AM	Sandplain	Playa			Brown	Orange		Spinifex	Shrubs	Trees	No
E9009	463727	7635346		PM	JG	05/09/2015	10:34:00 AM	Sandplain	Playa			Brown			Spinifex	Trees		No
E9011	465267	7640138		NK	JG	16/09/2015	10:55:00 AM	Colluvium	Outcrop			Brown	Yellow		Shrubs	Spinifex		No
E9013	464782	7645779		NK	JG	16/09/2015	10:12:00 AM	Sandplain	Dunes	Playa		Brown	Orange					No
E9015	465019	7649921		NK	JG	16/09/2015	6:44:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
E9241	470197	7610151		NK	JG	11/09/2015	7:49:00 AM	Outcrop	Colluvium			Brown	Orange		Spinifex	Grass		No
E9243	470186	7614980		NK	JG	12/09/2015	6:57:00 AM	Playa	Outcrop			Red	Yellow		Grass			No
E9245	469978	7619971		NK	AS	06/09/2015	11:28:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
E9247	470069	7625037		NK	AS	06/09/2015	10:00:00 AM	Outcrop	Sandplain	Dunes		Brown	Orange		Spinifex			No
E9249	470098	7630048		PM	JG	05/09/2015	11:20:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex			Yes
E9251	469852	7634472		PM	JG	05/09/2015	10:42:00 AM	Sandplain	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
E9253	469578	7639993		NK	JG	16/09/2015	11:02:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E9255	470086	7645009		NK	JG	16/09/2015	10:06:00 AM	Colluvium	Dunes	Sandplain		Brown	Orange		Spinifex	Shrubs		Yes
E9257	470247	7649900		NK	JG	16/09/2015	6:51:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Grass	Yes
E9481	474891	7605182	YES	NK	JG	11/09/2015	7:35:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
E9483	475065	7609883		NK	JG	11/09/2015	7:43:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E9485	475054	7615002		NK	JG	12/09/2015	7:03:00 AM	Colluvium	Sheetwash			Brown	Orange		Spinifex	Shrubs		No
E9487	475042	7620056		NK	AS	06/09/2015	11:20:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E9489	474971	7625041	YES	NK	AS	06/09/2015	10:58:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Shrubs		No
E9491	475128	7629986		PM	JG	05/09/2015	11:13:00 AM	Colluvium	Outcrop			Orange	Brown		Spinifex	Shrubs		No
E9493	474783	7634943		PM	JG	05/09/2015	10:47:00 AM	Colluvium				Brown	Orange		Spinifex	Shrubs	Trees	No
E9495	474913	7639943		NK	JG	16/09/2015	11:20:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Trees	Shrubs	No
E9497	475243	7645201		NK	JG	16/09/2015	9:48:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Trees		No
E9499	475452	7649874		NK	JG	16/09/2015	6:57:00 AM	Sheetwash	Playa			Brown	Orange		Spinifex	Shrubs		Yes
E9721	480079	7600075		NK	JG	11/09/2015	7:20:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
E9723	480051	7604984		NK	JG	11/09/2015	7:23:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
E9725	480081	7609843		NK	JG	11/09/2015	7:17:00 AM	Sheetwash	Colluvium			Brown	Orange		Spinifex	Trees		No
E9727	480122	7615017		NK	JG	12/09/2015	7:10:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
E9729	479951	7620037		NK	AS	06/09/2015	11:14:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Trees	Shrubs	No
E9731	479860	7625087		NK	AS	06/09/2015	11:06:00 AM	Sandplain	Dunes	Playa		Brown	Orange		Spinifex	Shrubs		Yes
E9733	480092	7629825	YES	PM	JG	05/09/2015	11:04:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
E9735	480052	7634943		PM	JG	05/09/2015	10:57:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
E9737	480117	7639944	YES	NK	JG	16/09/2015	11:27:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
E9739	480143	7644951		NK	JG	16/09/2015	8:22:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
E9741	480007	7650082		NK	JG	16/09/2015	7:05:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No

Mag?	from	to	Sampled?	SURFACE REGOLITH																Lithics1	Lithics2	
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%				
No yes	0.50	2.00	No	0	0	50	50															
				0	0	100	0															
				2	0	85	15															
				0	0	90	10															
				0	0	95	5															
				1	15	15	70															
				0	0	100	0															
				0	15	40	45															
				0	0	80	20															
				0	0	80	20															
				0	0	90	10															
				0	5	85	10															
				0	10	75	15															
				0	0	60	40															
				5	60	40	0															
	0	20	50	30																		
	0	5	85	10																		
	0	30	30	40																		
	0	0	100	0																		
	0	5	85	10																		
	3	0	80	20																		
	2	80	15	5																		
	0	0	100	0																		
	0	20	60	20																		
	5	80	10	10																		
	2	80	10	10																		
	0	5	85	10																		
	3	50	40	10																		
	1	80	15	5																		
	0	0	85	15																		
	0	70	10	20																		
2	30	70	0																			
0	10	80	10																			
0	0	80	20																			
50	80	10	10																			
0	50	50	0																			
2	60	30	10																			
0	20	65	15																			
0	70	25	5																			
2	40	50	10																			
5	40	45	15																			
5	70	10	20																			
0	80	20	0																			
0	0	90	10																			
0	15	85	0																			
2	50	40	10																			
0	30	60	10																			
0	0	100	0																			
1	30	60	10																			
0	0	90	10																			
0	0	85	15																			
0	10	70	20																			
2	40	40	20																			
2	70	15	15																			

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
35	0	50	50							20			80					
90	0	100	0										100					
50	0	75	25							90			10					
90	0	90	10										100					
90	0	95	5									60	40	Sedimentary				
70	0	30	70									50	50	Sedimentary				
90	0	85	15									40	60	Sedimentary				
90	5	25	70				100					50	50	Sedimentary				
90	0	90	10										100					
25	0	80	20						10				90					
90	0	85	15										100					
90	10	80	10		100					20			80					
80	5	60	40	100								60	40	Sedimentary				
70	10	30	60		100							50	50	Sedimentary				
20	50	50	0				100					20	80	Sedimentary		Sedimentary	2	90
50	15	45	40				100					100		Sedimentary				
90	0	80	20									30	70	Sedimentary				
50	10	30	40	15	40	15	15	15					100					
90	0	80	20										100					
90	0	90	10										100					
90	0	80	20							40			60					
20	50	10	40			20	80					100		Sedimentary		Sedimentary	200	W
90	0	90	10									30	70	Sedimentary				
50	0	40	60									50	50	Sedimentary		Sedimentary	600	E
80	70	10	20				100					100		Sedimentary Q	Quartzite	Sedimentary	200	S
90	10	20	70				100					100		Sedimentary		Sedimentary	2000	E
70	0	100	0										100					
8	50	40	10				100						100	Sedimentary		Sedimentary	1	S
90	20	60	2	20			80						100	Sedimentary				
90	5	85	15				100						100	Sedimentary		Sedimentary	200	180
40	40	20	40			10	90					80	20	Sedimentary		Sedimentary	5	W
25	20	70	10	20			80					50	50	Sedimentary				
80	10	30	60	100								50	50	Sedimentary				
90	0	80	20									20	80	Sedimentary				
70	60	10	30				100					100		Sedimentary		Sedimentary	100	E
40	30	40	30				90	10				90	10	Sedimentary		Sedimentary	10	W
25	60	20	20				100						100	Sedimentary		Sedimentary	100	E
30	10	60	20	15			85						100	Sedimentary				
70	40	50	10				100					60	40	Sedimentary		Sedimentary	0	360
90	40	40	20				100							Sedimentary		Sedimentary	700	180
10	40	40	20				100					80	20	Sedimentary		Sedimentary	10	E
25	50	20	30	5			95					80	20	Sedimentary		Sedimentary	50	E
60	30	30	40	40	50		10					30	70	Sedimentary		Sedimentary	1000	W
90	0	90	10										100					
90	10	80	10	5			95					20	80	Sedimentary				
50	40	40	20				100					50	50	Sedimentary	Quartzite	Sedimentary	2000	S
90	10	60	30	20			80					50	50	Sedimentary				
90	0	90	10										100					
27	15	65	20		100								100					
90	0	90	10										100					
90	0	85	15										100					
90	10	50	40	10			90					80	20	Sedimentary				
40	30	40	30	30			70					30	70	Sedimentary				
25	70	15	15				100					60	40	Quartzite		Quartzite	2	E

COATING	UNITS NEARBY		SAMPLE FEATURES		PHOTO	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe	Lake		Damp	Unconsolidated	Y	Moved site east to the edge of the lake. Consolidated silty clay and calcrete at 35 cm deep (BOH)
	Dune		Dry	Unconsolidated	Y	
	Lake		Dry	Unconsolidated	Y	Small island in lake. Probably gypsum in sample bag. Only a very thin veneer of sand
	Dune		Dry	Unconsolidated	Y	Site moved off lake edge into narrow swale. Dunes on three sides
Fe	Dune	Lake	Dry	Unconsolidated	Y	
Fe	Dune	Lake	Damp	Unconsolidated	Y	Calcrete on surface
Fe			Damp	Unconsolidated	Y	
Fe	Lake	Dune	Damp	Unconsolidated	Y	Edge of lake. Salt bush
Fe	Lake	Dune	Damp	Unconsolidated	Y	Moved the site south to the edge of the lake
Fe	Lake		Dry		Y	Calcrete patches around salt lake. Moved site east to the edge of the lake
	Lake		Dry	Unconsolidated	Y	Occasional carbonate patches
	Lake		Damp	Unconsolidated	Y	Island in lake
Fe	Lake		Dry	Unconsolidated	Y	Site on lake – moved to lake margin
Fe	Dune	Lake	Damp	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Lithic fragments on surface. Two holes, both of which hit rock at 20 cm
Fe			Dry	Unconsolidated	Y	Hit rock/ carbonate at 50 cm (BOH) – limestone? Cave on limestone(?) spotted at 1000 m from site
Fe	Lake	Dune	Damp	Unconsolidated	Y	
Fe	Lake		Dry	Unconsolidated	Y	Edge of large salt lake. Moved site 2.5 km from original point. Gypsum crystals downhole
Fe	Dune	Lake	Dry	Unconsolidated	Y	
	Lake		Dry	Unconsolidated	Y	Sandplain near lake. Carbonate patches up to 1.5 m across and 4 cm thick
	Lake		Dry	Unconsolidated	Y	Kopi layer about 2 cm thick and about 2 cm downhole. Kopi patches on surface
Fe	Lake		Dry	Unconsolidated	Y	Original site on lake; moved to the edge (margin) of the lake. Outcrop/chalcedony clasts on surface
Fe	Dune	Lake	Dry	Unconsolidated	Y	Well-sorted sand
Fe	Lake		Dry	Unconsolidated	Y	
Fe			Damp	Unconsolidated	Y	Hit rock at 80 cm (BOH)
Fe	Lake		Damp	Unconsolidated	Y	Clastic surface
Fe	Calcrete		Dry	Unconsolidated	Y	Hit calcrete at 70 cm (BOH)
Fe	Dune		Dry		Y	Hit rock at 8 cm (BOH). Conglomerate (Murraba Fm?) in places
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Rock sample site. Chalcedony on surface
Fe	Dune		Dry	Unconsolidated	Y	Gripping at 25 cm (BOH). Lithic surface
Fe	Dune		Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Hit rock at 70 cm (BOH)
Fe			Dry	Unconsolidated	Y	Hit rock at 40 cm (BOH). Murraba Fm – fine-grained conglomerate
Fe			Dry		Y	Shallow hole hit rock at 25 cm (BOH)
Fe			Dry		Y	Drilled two holes to collect enough for sampling
			Dry	Unconsolidated	Y	Lithics and patchy outcrop. Thin, stony regolith
			Dry	Unconsolidated	Y	Lithic fragments on surface
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Hit rock at 25 cm deep boh. Clastic surface. Rock sample site
Fe	Lake		Damp	Unconsolidated	Y	Playa terrain. Sheetwash with lag on surface and calcrete at depth
Fe	Dune		Dry	Unconsolidated	Y	Well-sorted quartz sand
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated		Large clast on surface, up to 10 cm. Hit rock at 50 cm (BOH)
Fe	Dune	Lake	Dry	Unconsolidated	Y	
Fe	Lake	Dune	Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Unconsolidated till hit cemented calcrete at 27 cm deep (BOH)
	Dune		Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	
Fe	Dune		Dry	Unconsolidated	Y	Lag mixed with clastics
Fe	Dune		Dry	Unconsolidated	Y	Lithic surface

METADATA	Easting	Northing						REGOLITH-LANDFORM				REGOLITH COLOUR			VEGETATION			LAG
SiteID	Zone 52		Site dup	Geologist	Field assistant	Date	Time	Reg-ldfm1	Reg-ldfm2	Reg-ldfm3	Reg-ldfm4	Reg-col1	Reg-col2	Reg-col3	Veg1	Veg2	Veg3	Lag?
E9979	485217	7640108	YES	NK	JG	16/09/2015	11:34:00 AM	Sandplain	Dune			Brown			Spinifex	Shrubs		No
E9981	484980	7644983		NK	JG	16/09/2015	8:17:00 AM	Sandplain				Brown	Orange		Spinifex			No
E9983	485024	7649891		NK	JG	16/09/2015	7:12:00 AM	Sandplain	Dune			Brown	Orange		Spinifex	Shrubs		No
E10223	489938	7644961		NK	JG	16/09/2015	8:10:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E10225	489983	7649962		NK	JG	16/09/2015	7:18:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E10465	495334	7645050		NK	JG	16/09/2015	7:53:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs		No
E10467	495200	7649896		NK	JG	16/09/2015	7:35:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		No
E10707	500021	7644788		NK	JG	16/09/2015	7:47:00 AM	Colluvium	Outcrop			Brown	Orange		Spinifex	Shrubs	Trees	No
E10709	500111	7649858		NK	JG	16/09/2015	7:41:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		No
E99998	450429	7644960		NK	JG	16/09/2015	10:30:00 AM	Sandplain	Dunes			Brown	Red		Spinifex	Shrubs		No
SouthernFuel	388900	7620384		PM	AS	12/09/2015	3:05:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		Yes
SR1	383940	7681639		AS	JG	14/09/2015	7:40:00 AM	Sandplain				Brown	Red		Spinifex	Shrubs		Yes
SR2	383070	7681170		AS	JG	14/09/2015	7:53:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		Yes
SR3	382233	7680717		AS	JG	14/09/2015	8:03:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		yes
SR8	378730	7678808		AS	JG	14/09/2015	8:25:00 AM	Sandplain				Brown	Orange		Spinifex	Trees		yes
SR9	378299	7678569		AS	PM	17/09/2015	7:24:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs		No
SR10	378004	7678440		AS	PM	17/09/2015	7:32:00 AM	Sandplain				Brown	Orange		Spinifex			No
SR11	374874	7676710		AS	PM	17/09/2015	7:45:00 AM	sheetwash	Sandplain			Brown	Orange		Spinifex	Shrubs		Yes
SR12	373997	7676188		AS	PM	17/09/2015	7:55:00 AM	Sandplain				Brown	Orange		Spinifex			Yes
SR13	373252	7675828		AS	PM	17/09/2015	8:04:00 AM	Sandplain				Brown	Orange		Spinifex			No
SR14	372678	7675537		AS	PM	17/09/2015	8:11:00 AM	Sandplain	sheetwash			Brown	Orange		Grass	Spinifex		No
SR15	371506	7674872		AS	PM	17/09/2015	8:21:00 AM	Sandplain				Brown	Orange		Spinifex			No
SR16	370623	7674389		AS	PM	17/09/2015	8:29:00 AM	Sandplain				Brown	Orange		Spinifex			Yes
SS1	419081	7599173		PM	AS	15/09/2019	9:45:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		Yes
SS2	418654	7599595		PM	AS	15/09/2015	9:53:00 AM	Dunes	Sandplain			Brown	Orange		Spinifex	Shrubs	Trees	No
SS3	418289	7599604		PM	AS	15/09/2015	9:57:00 AM	Dunes	Sandplain			Brown	Orange		Spinifex	Shrubs	Trees	No
SS4	418102	7599753		PM	AS	15/09/2015	10:01:00 AM	Dunes	Sandplain			Brown	Orange		Spinifex	Shrubs		No
SS5	417645	7599861		PM	AS	15/09/2015	10:11:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		Yes
SS6	417358	7599907		PM	AS	15/09/2015	10:18:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		Yes
SS7	416961	7600043		PM	AS	15/09/2015	10:23:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
SS8	416562	7600188		PM	AS	15/09/2015	10:27:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Trees		No
SS9	416211	7600315		PM	AS	15/09/2015	10:34:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs	Trees	No
SS10	417871	7599765		PM	AS	15/09/2015	10:07:00 AM	Sandplain	Dunes			Brown	Orange		Spinifex	Shrubs		No
SRT1	408198	7641589		PM	AS	15/09/2015	11:57:00 AM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
SRT2	408492	7641808		PM	AS	15/09/2015	12:02:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
SRT3	408823	7642006		PM	AS	15/09/2015	12:07:00 PM	Sandplain				Brown	Orange		Spinifex	Shrubs	Trees	No
SRT4	409147	7642134		PM	AS	15/09/2015	12:14:00 PM	Sandplain				Brown	Orange		Spinifex	Trees	Shrubs	No
SRT5	409497	7642364		PM	AS	15/09/2015	12:18:00 PM	Sandplain				Brown	Orange		Spinifex	Trees		No
SRT6	407647	7641317		PM	AS	15/09/2015	11:48:00 AM	Outcrop				Brown	Yellow		Spinifex	Trees		No
SRT7	407345	7641112		PM	AS	15/09/2015	11:43:00 AM	Outcrop				Brown	Yellow		Spinifex	Trees		No
SRT8	407008	7640986		PM	AS	15/09/2015	11:38:00 AM	Outcrop				Brown	Orange		Spinifex	Trees		No
SRT9	406705	7640677		PM	AS	15/09/2015	11:30:00 AM	Outcrop				Brown	Yellow		Spinifex	Trees		No
SRT10	407925	7641454		PM	AS	15/09/2015	11:53:00 AM	Outcrop	Colluvium			Brown			Spinifex	Trees		No

Mag?	from	to	Sampled?	SURFACE REGOLITH										Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithics1	Lithics2
				Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Other%							
				0	10	60	30	20	10		70						50	50	Sedimentary	
				5	70	20	10				100						80	20	Sedimentary	
				0	0	90	10										50	50	Sedimentary	
				5	70	10	20				90	10					100		Sedimentary	
				5	80	10	10				100						50	50	Sedimentary	Quartzite
				5	50	20	30				100						80	20	Sedimentary	
				0	5	75	25	50			50						50	50	Sedimentary	
				1	20	70	10	15			85						70	30	Sedimentary	Quartzite
				0	10	90	0	50			50						40	60	Sedimentary	
				0	0	90	10										30	70	Sedimentary	
	0.10	3.00	Yes	0	50	40	10	100										100		
			Yes	0.5	10	70	20	60			40							100		Sedimentary
	0.20	2.00	Yes	0.5	30	55	15	50			50							100		Sedimentary
	0.50	3.00	Yes	0.5	30	50	20	60			40							100		Sedimentary
	0.20	2.00	Yes	1	25	50	25	80			20							100		Sedimentary
				0.5	0	60	40											100		
				0.3	0	70	30											100		
	0.20	2.00	yes	1	60	20	20	50			50							100		Sedimentary
	0.20	2.00	Yes	0.5	40	30	30	60			40							100		Sedimentary
				0.2	20	50	30	50			50							100		Sedimentary
				0	0	30	70											100		
				0.5	0	60	40											100		
			Yes	0.5	30	45	25	80			20							100		Sedimentary
	0.10	1.00	Yes	1	80	15	5	100										100		
				0	0	90	10											100		
				0	0	90	10											100		
				0	0	85	15											100		
	0.10	0.30	Yes	0.5	10	85	5	90	10									100		
	0.10	0.20	Yes	0	5	85	10	50				50						100		
				0	5	80	15	50				50						100		
				0	5	85	10	50				50						100		
				0.5	5	85	15	50			50							100		
				0.2	5	85	100	100										100		
				0	0	90	10											100		
				0	0	85	15										10	90		
				0	0	90	10											100		
				0	0	85	15										10	90		
				0	0	85	15										10	90		
				0	0	85	15										10	90		
				0.5	0	90	10										20	80	Sedimentary	
				2	0	90	10										20	80		
				0.5	85	10	5				100						60	40	Sedimentary	
				2	90	10	0				100						100		Sedimentary	

DOWNHOLE REGOLITH															OUTCROP NEARBY			
Thickness	Nod/gr %	Sand %	Silt %	Nod Fe%	Nod Ca%	Nod Si%	Nod Lithic%	Nod Qtz%	Sand Fe%	Sand Ca%	SandSi%	Sand Lithic%	Sand Qtz%	Lithic1	Lithic2	Outcrop	Dist	Dirn
40	5	45	50	20			80					50	50	Sedimentary				
25	50	20	30				100					80	20	Sedimentary				
90	0	80	20									50	50	Sedimentary				
20	70	10	20				100					100		Sedimentary		Sedimentary	5	W
25	80	10	10				100					50	50	Sedimentary	Quartzite	Sedimentary	10	E
25	50	20	30				100					80	20	Sedimentary		Sedimentary	10	SE
90	0	50	50									50	50	Sedimentary				
90	10	60	30				100					80	20	Sedimentary	Quartzite	Sedimentary	10	W
90	0	90	10									40	60	Sedimentary				
90	0	80	20									50	50	Sedimentary				
25	20	60	20	100									100					
70	10	55	35	60			40						100	Sedimentary				
30	45	35	20	60			40						100	Sedimentary				
70	40	35	25	60			40						100	Sedimentary				
15	5	45	50										100	Sedimentary				
90	0	60	40										100					
90	0	70	30										100					
85	30	40	30	20			80						100	Sedimentary				
75	30	30	40	50			50						100	Sedimentary				
85	25	40	35	20			80						100	Sedimentary				
75	0	40	60										100					
90	20	50	30				100						100	Sedimentary		Sedimentary	600	45
85	30	50	20	20			80						100	Sedimentary				
50	40	50	10	100									100					
90	0	90	10										100					
90	0	90	10										100					
60	0	70	30										100					
30	0	70	30										100					
40	0	85	15										100					
40	0	85	15										100					
90	0	85	15										100					
90	0	90	10										100					
90	0	85	15										100					
90	0	85	15									10	90					
90	0	85	15									10	90					
90	0	85	15									10	90					
90	0	85	15									10	90					
10	5	85	10				100					80	20	Sedimentary		Sedimentary	0	360
10	20	75	5				100					80	20	Sedimentary		Sedimentary	0	360
5	30	60	10				100					50	50	Sedimentary		Sedimentary	0	360
5	85	10	5				100					60	40	Sedimentary		Sedimentary	0	360
5	75	20	5				100					100		Sedimentary		Sedimentary	100	90

COATING 2nd coat	UNITS NEARBY		SAMPLE FEATURES		PHOTO Photo (Y/N)	COMMMENTS
	Units nearby1	Units nearby2	Features1	Features2		Comments
Fe	Dune		Dry	Unconsolidated	Y	Auger gripping at 40 cm deep (BOH)
Fe	Dune		Dry	Unconsolidated	Y	Lithic surface. Hit rock at 25 cm, two holes. Murraba Formation, fine grained conglomerate
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Hit rock at 20 cm deep, three holes. 5 cm quartz clasts on surface
Fe	Lake		Dry	Unconsolidated	Y	Rock sample collected. Lithic surface
Fe			Dry	Unconsolidated	Y	Rock sample site. Lithic surface
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
Fe	Calcrete		Dry	Unconsolidated	Y	
Fe			Damp	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	Compacted at base (clay). Is southern fuel dump
Fe			Dry	indurated	Y	Very compacted
Fe			Dry	Unconsolidated	Y	Very stony downhole
Fe			Dry	Unconsolidated	Y	Very stony downhole
			Dry	Unconsolidated	Y	Very clay rich and compacted soil
			Dry	Unconsolidated	Y	
Fe			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Clay rich downhole
			Dry	Unconsolidated	Y	Stony and clayey at bottom of hole
			Dry	Unconsolidated	Y	Clay compacted at bottom of hole
			Dry	Unconsolidated	Y	Stony at bottom of hole, next to burnt area
			Dry	Unconsolidated	Y	Lithics at bottom of hole, next to burnt area
Fe			Dry	Unconsolidated	Y	
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	In join of two dunes (swale)
			Dry	Unconsolidated	Y	Clay compacted at 60 cm
			Dry		Y	Rare carbonate patches at surface and some carbonate fragments in regolith
			Dry		Y	Fine ferruginous granules and rounded quartz grains at surface
			Dry		Y	Clay compacted at 40 cm
	Dune		Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	Weak ferruginous lag, <0.2 mm
			Dry	Unconsolidated	Y	Homogeneous sandplain
			Dry	Unconsolidated	Y	
			Dry	Unconsolidated	Y	See comment in form regarding change across fault trace
			Dry	Unconsolidated	Y	Homogeneous sandplain
			Dry	Unconsolidated	Y	
			Dry		Y	
			Dry		Y	
	Saprock		Dry		Y	Thin sand veneer on outcrop. Sample is more lithic
			Dry		Y	Outcrop with heavy lithic fragment cover
			Dry	Unconsolidated	Y	