

Sample report BR05-DD01 and Wallara-1

On May 25 2018, 116 samples from the BR05-DD01 (98) and Wallara-1 (18) core were collected from the Northern Territory Core Repository, located in Alice springs, NT. The selected samples predominantly are taken from the Neoproterozoic Areyonga and Aralka Formation, Amadeus Basin (Table 1). The collected samples have been analyzed via ICP-MS and XRD to investigate the elemental (Table 2) and mineralogical composition (Table 3).

Table 1: samples collected and analysis performed

Sample code	Drillcore	Formation	Depth in m	Weight in g	Date collected	Analysis performed	
						ICP-MS	XRD
LvM-024	BR05-DD01	Julie Fm.	54.9	72.1	25.05.2018	X	X
LvM-025	BR05-DD01	Julie Fm.	80.3	54.0	25.05.2018	X	X
LvM-026	BR05-DD01	Julie Fm.	100.1	61.7	25.05.2018	X	X
LvM-027	BR05-DD01	Julie Fm.	121.6	28.6	25.05.2018	X	X
LvM-028	BR05-DD01	Julie Fm.	138.9	92.9	25.05.2018	X	X
LvM-029	BR05-DD01	Aralka Fm.	160.0	125.4	25.05.2018	X	X
LvM-030	BR05-DD01	Aralka Fm.	163.7	126.0	25.05.2018	X	X
LvM-031	BR05-DD01	Aralka Fm.	177.0	145.5	25.05.2018	X	X
LvM-032	BR05-DD01	Aralka Fm.	179.8	171.3	25.05.2018	X	X
LvM-033	BR05-DD01	Aralka Fm.	216.9	67.3	25.05.2018	X	X
LvM-034	BR05-DD01	Aralka Fm.	240.0	147.2	25.05.2018	X	X
LvM-035	BR05-DD01	Aralka Fm.	260.1	78.8	25.05.2018	X	X
LvM-036	BR05-DD01	Aralka Fm.	266.8	106.7	25.05.2018	X	X
LvM-037	BR05-DD01	Aralka Fm.	280.4	81.7	25.05.2018	X	X
LvM-038	BR05-DD01	Aralka Fm.	309.4	54.8	25.05.2018	X	X
LvM-039	BR05-DD01	Aralka Fm.	323.3	44.1	25.05.2018	X	X
LvM-040	BR05-DD01	Aralka Fm.	343.6	63.7	25.05.2018	X	X
LvM-041	BR05-DD01	Aralka Fm.	353.1	63.5	25.05.2018	X	X
LvM-042	BR05-DD01	Aralka Fm.	362.8	84.8	25.05.2018	X	X
LvM-043	BR05-DD01	Aralka Fm.	371.6	83.0	25.05.2018	X	X
LvM-044	BR05-DD01	Aralka Fm.	385.3	89.3	25.05.2018	X	X
LvM-045	BR05-DD01	Aralka Fm.	393.4	62.5	25.05.2018	X	X
LvM-046	BR05-DD01	Aralka Fm.	396.2	61.4	25.05.2018	X	X
LvM-047	BR05-DD01	Aralka Fm.	410.2	104.3	25.05.2018	X	X
LvM-048	BR05-DD01	Aralka Fm.	414.4	62.6	25.05.2018	X	X
LvM-049	BR05-DD01	Aralka Fm.	420.9	100.1	25.05.2018	X	X
LvM-050	BR05-DD01	Aralka Fm.	431.1	83.2	25.05.2018	X	X
LvM-051	BR05-DD01	Aralka Fm.	440.7	145.7	25.05.2018	X	X
LvM-052	BR05-DD01	Aralka Fm.	441.4	95.0	25.05.2018	X	X
LvM-053	BR05-DD01	Aralka Fm.	442.8	83.3	25.05.2018	X	X
LvM-054	BR05-DD01	Aralka Fm.	444.0	76.7	25.05.2018	X	X
LvM-055	BR05-DD01	Aralka Fm.	445.2	77.0	25.05.2018	X	X
LvM-056	BR05-DD01	Aralka Fm.	446.4	50.2	25.05.2018	X	X
LvM-057	BR05-DD01	Aralka Fm.	447.0	72.6	25.05.2018	X	X
LvM-058	BR05-DD01	Aralka Fm.	448.0	65.0	25.05.2018	X	X
LvM-059	BR05-DD01	Aralka Fm.	448.9	34.5	25.05.2018	X	X
LvM-060	BR05-DD01	Aralka Fm.	449.4	120.3	25.05.2018	X	X
LvM-061	BR05-DD01	Aralka Fm.	451.4	125.2	25.05.2018	X	X
LvM-062	BR05-DD01	Aralka Fm.	452.2	73.3	25.05.2018	X	X
LvM-063	BR05-DD01	Aralka Fm.	453.0	89.2	25.05.2018	X	X
LvM-064	BR05-DD01	Aralka Fm.	454.0	115.7	25.05.2018	X	X
LvM-065	BR05-DD01	Aralka Fm.	455.0	45.1	25.05.2018	X	X
LvM-066	BR05-DD01	Aralka Fm.	456.3	52.6	25.05.2018	X	X

LvM-067	BR05-DD01	Aralka Fm.	457.2	80.0	25.05.2018	X	X
LvM-068	BR05-DD01	Aralka Fm.	458.2	88.3	25.05.2018	X	X
LvM-069	BR05-DD01	Aralka Fm.	459.2	123.9	25.05.2018	X	X
LvM-070	BR05-DD01	Aralka Fm.	460.3	67.3	25.05.2018	X	X
LvM-071	BR05-DD01	Aralka Fm.	461.0	117.8	25.05.2018	X	X
LvM-072	BR05-DD01	Aralka Fm.	461.8	96.6	25.05.2018	X	X
LvM-073	BR05-DD01	Aralka Fm.	463.4	60.2	25.05.2018	X	X
LvM-074	BR05-DD01	Aralka Fm.	464.4	64.7	25.05.2018	X	X
LvM-075	BR05-DD01	Aralka Fm.	466.1	67.9	25.05.2018	X	X
LvM-076	BR05-DD01	Aralka Fm.	467.0	101.0	25.05.2018	X	X
LvM-077	BR05-DD01	Aralka Fm.	468.1	88.7	25.05.2018	X	X
LvM-078	BR05-DD01	Aralka Fm.	469.1	80.5	25.05.2018	X	X
LvM-079	BR05-DD01	Aralka Fm.	470.1	52.2	25.05.2018	X	X
LvM-080	BR05-DD01	Aralka Fm.	471.0	77.0	25.05.2018	X	X
LvM-081	BR05-DD01	Aralka Fm.	472.2	112.0	25.05.2018	X	X
LvM-082	BR05-DD01	Aralka Fm.	473.1	125.0	25.05.2018	X	X
LvM-083	BR05-DD01	Aralka Fm.	474.1	56.0	25.05.2018	X	X
LvM-084	BR05-DD01	Aralka Fm.	475.0	129.3	25.05.2018	X	X
LvM-085	BR05-DD01	Aralka Fm.	476.0	146.2	25.05.2018	X	X
LvM-086	BR05-DD01	Aralka Fm.	476.7	121.4	25.05.2018	X	X
LvM-087	BR05-DD01	Aralka Fm.	477.6	43.7	25.05.2018	X	X
LvM-088	BR05-DD01	Aralka Fm.	478.0	167.6	25.05.2018	X	X
LvM-089	BR05-DD01	Aralka Fm.	479.2	62.3	25.05.2018	X	X
LvM-090	BR05-DD01	Aralka Fm.	480.0	63.5	25.05.2018	X	X
LvM-091	BR05-DD01	Aralka Fm.	480.7	81.4	25.05.2018	X	X
LvM-092	BR05-DD01	Aralka Fm.	481.2	81.2	25.05.2018	X	X
LvM-093	BR05-DD01	Aralka Fm.	481.6	117.9	25.05.2018	X	X
LvM-094	BR05-DD01	Aralka Fm.	481.9	107.3	25.05.2018	X	X
LvM-095	BR05-DD01	Aralka Fm.	482.3	54.0	25.05.2018	X	X
LvM-096	BR05-DD01	Aralka Fm.	482.7	81.4	25.05.2018	X	X
LvM-097	BR05-DD01	Aralka Fm.	483.3	37.6	25.05.2018	X	X
LvM-098	BR05-DD01	Aralka Fm.	483.6	44.0	25.05.2018	X	X
LvM-099	BR05-DD01	Aralka Fm.	484.1	42.7	25.05.2018	X	X
LvM-100	BR05-DD01	Aralka Fm.	484.6	58.4	25.05.2018	X	X
LvM-101	BR05-DD01	Areyonga Fm.	485.1	49.1	25.05.2018	X	X
LvM-102	BR05-DD01	Areyonga Fm.	485.7	54.9	25.05.2018	X	X
LvM-103	BR05-DD01	Areyonga Fm.	486.1	147.0	25.05.2018	X	X
LvM-104	BR05-DD01	Areyonga Fm.	487.3	109.9	25.05.2018	X	X
LvM-105	BR05-DD01	Areyonga Fm.	488.1	53.3	25.05.2018	X	X
LvM-106	BR05-DD01	Areyonga Fm.	488.6	49.1	25.05.2018	X	X
LvM-107	BR05-DD01	Areyonga Fm.	488.9	48.9	25.05.2018	X	X
LvM-108	BR05-DD01	Areyonga Fm.	489.0	167.0	25.05.2018	X	X
LvM-109	BR05-DD01	Areyonga Fm.	490.1	67.9	25.05.2018	X	X
LvM-110	BR05-DD01	Areyonga Fm.	491.1	58.9	25.05.2018	X	X
LvM-111	BR05-DD01	Areyonga Fm.	492.0	64.3	25.05.2018	X	X
LvM-112	BR05-DD01	Areyonga Fm.	492.8	87.8	25.05.2018	X	X
LvM-113	BR05-DD01	Areyonga Fm.	495.0	104.2	25.05.2018	X	X
LvM-114	BR05-DD01	Areyonga Fm.	498.6	117.2	25.05.2018	X	X
LvM-115	BR05-DD01	Areyonga Fm.	504.4	103.1	25.05.2018	X	X
LvM-116	BR05-DD01	Areyonga Fm.	509.3	105.6	25.05.2018	X	X
LvM-117	BR05-DD01	Areyonga Fm.	514.3	64.6	25.05.2018	X	X
LvM-118	BR05-DD01	Areyonga Fm.	521.1	71.8	25.05.2018	X	X
LvM-119	BR05-DD01	Areyonga Fm.	526.0	74.3	25.05.2018	X	X
LvM-120	BR05-DD01	Areyonga Fm.	531.2	57.1	25.05.2018	X	X
LvM-121	BR05-DD01	Wallara Fm.	540.7	121.2	25.05.2018	X	X
LvM-122	Wallara-1	Aralka Fm.	1289.7	80	28.05.2018	X	X
LvM-123	Wallara-1	Aralka Fm.	1291.2	44.4	28.05.2018	X	X
LvM-124	Wallara-1	Aralka Fm.	1293.4	65.5	28.05.2018	X	X
LvM-125	Wallara-1	Aralka Fm.	1295.2	73.6	28.05.2018	X	X

LvM-126	Wallara-1	Aralka Fm.	1297.4	65.5	28.05.2018	X	X
LvM-127	Wallara-1	Aralka Fm.	1298.4	87.1	28.05.2018	X	
LvM-128	Wallara-1	Aralka Fm.	1299.1	42.2	28.05.2018	X	X
LvM-129	Wallara-1	Aralka Fm.	1301.1	55.5	28.05.2018	X	X
LvM-130	Wallara-1	Aralka Fm.	1303.3	50.8	28.05.2018	X	X
LvM-131	Wallara-1	Aralka Fm.	1304.2	39.7	28.05.2018	X	X
LvM-132	Wallara-1	Aralka Fm.	1304.8	47.7	28.05.2018	X	X
LvM-133	Wallara-1	Aralka Fm.	1305.3	99.0	28.05.2018	X	X
LvM-134	Wallara-1	Aralka Fm.	1305.8	45.0	28.05.2018	X	X
LvM-135	Wallara-1	Aralka Fm.	1306.1	29.1	28.05.2018	X	X
LvM-136	Wallara-1	Aralka Fm.	1306.3	71.8	28.05.2018	X	X
LvM-137	Wallara-1	Areyonga Fm.	1306.8	89.8	28.05.2018	X	
LvM-138	Wallara-1	Areyonga Fm.	1310.0	39.3	28.05.2018	X	X
LvM-139	Wallara-1	Areyonga Fm.	1318.8	82.9	28.05.2018	X	X

Table 2:

ICP-MS data

Sample code	Drillcore	Depth in m	P	Mn	Re	V	Cr	Zn	Mo	U	Al
LvM-024	BR05-DD01	54.9	714.8	1241.2		145.1	62.5	92.0	1.7	3.6	46893
LvM-025	BR05-DD01	80.3	807.5	654.2	0.004	181.6	72.5	110.7	2.6	4.5	49491
LvM-026	BR05-DD01	100.1	741.6	576.0		151.4	64.9	96.3	2.4	3.8	54615
LvM-027	BR05-DD01	121.6	709.1	782.1		160.6	67.9	104.7	2.6	3.6	52804
LvM-028	BR05-DD01	138.9	740.6	1259.4	0.003	170.9	70.2	118.7	2.5	3.6	49410
LvM-029	BR05-DD01	160.0	565.4	801.4	0.006	80.0	34.9	93.8	0.5	1.9	29221
LvM-030	BR05-DD01	163.7	539.8	540.1	0.003	79.4	38.1	81.2	0.5	1.9	43175
LvM-031	BR05-DD01	177.0	448.5	969.1	0.003	59.8	28.3	78.5	1.9	1.8	32930
LvM-032	BR05-DD01	179.8	313.8	3686.8		46.1	14.9	39.7	0.6	1.0	14854
LvM-033	BR05-DD01	216.9	733.9	618.8	0.004	176.5	78.4	141.7	1.5	3.1	60096
LvM-034	BR05-DD01	240.0									
LvM-035	BR05-DD01	260.1	728.5	889.1	0.004	142.7	66.8	152.2	5.0	3.3	57876
LvM-036	BR05-DD01	266.8	743.8	1007.8	0.004	154.2	75.4	109.4	2.9	3.3	65101
LvM-037	BR05-DD01	280.4	639.9	1266.6	0.003	105.1	48.2	241.1	1.8	2.3	47703
LvM-038	BR05-DD01	309.4	677.0	1527.4	0.004	129.7	64.6	110.7	1.7	2.8	55480
LvM-039	BR05-DD01	323.3	887.3	2969.5	0.003	106.8	49.8	105.7	2.1	2.5	44420
LvM-040	BR05-DD01	343.6	813.1	513.6	0.006	199.2	97.6	152.9	3.1	3.9	71073
LvM-041	BR05-DD01	353.1	733.1	1062.3	0.004	172.8	81.7	152.7	2.1	3.5	62022
LvM-042	BR05-DD01	362.8	703.1	872.3	0.003	140.6	75.2	119.1	0.4	2.8	62924
LvM-043	BR05-DD01	371.6	678.2	958.4	0.004	120.0	55.2	122.9	0.8	2.3	52789
LvM-044	BR05-DD01	385.3	738.5	751.0	0.005	151.6	70.7	152.4	2.7	2.8	58785
LvM-045	BR05-DD01	393.4	986.9	601.2	0.005	188.4	85.4	134.8	2.2	3.5	65501
LvM-046	BR05-DD01	396.2	982.9	573.9	0.005	154.7	84.9	120.7	7.6	3.6	68118
LvM-047	BR05-DD01	410.2	695.7	742.6	0.004	127.9	65.9	116.7	0.9	2.5	58274
LvM-048	BR05-DD01	414.4	732.7	734.9	0.004	144.7	75.5	122.6	1.4	2.9	61765
LvM-049	BR05-DD01	420.9	665.7	721.6	0.004	116.4	65.5	108.1	0.8	2.6	58769

LvM-050	BR05-DD01	431.1	719.3	623.2	0.003	138.2	76.2	119.7	0.6	2.9	66312
LvM-051	BR05-DD01	440.7	690.1	516.5	0.004	123.0	68.3	99.3	2.2	3.0	61562
LvM-052	BR05-DD01	441.4	713.3	546.0	0.004	143.7	82.5	116.8	0.6	3.0	66796
LvM-053	BR05-DD01	442.8	689.5	1248.9	0.004	114.8	58.5	107.1	1.3	2.5	52315
LvM-054	BR05-DD01	444.0	711.9	679.0		106.1	56.7	112.3	0.4	2.3	56870
LvM-055	BR05-DD01	445.2	734.0	753.7	0.004	143.9	73.5	130.6	1.4	2.8	62374
LvM-056	BR05-DD01	446.4	687.8	830.3	0.004	139.0	71.9	143.5	1.3	2.9	60412
LvM-057	BR05-DD01	447.0	547.6	763.7		77.2	40.0	131.2	1.0	1.8	46364
LvM-058	BR05-DD01	448.0	818.2	563.0	0.007	141.2	65.6	132.4	1.6	3.3	58948
LvM-059	BR05-DD01	448.9	770.0	577.5	0.004	147.3	71.1	230.7	4.2	2.9	62152
LvM-060	BR05-DD01	449.4	587.9	635.2		94.4	48.9	391.2	2.2	2.0	50127
LvM-061	BR05-DD01	451.4	770.6	318.8	0.004	176.0	82.6	101.4	1.2	3.4	65913
LvM-062	BR05-DD01	452.2	597.1	337.4	0.003	160.9	82.7	80.3	1.0	3.3	69485
LvM-063	BR05-DD01	453.0	707.9	526.4	0.003	135.7	75.1	90.1	0.7	2.5	63710
LvM-064	BR05-DD01	454.0	676.3	799.5	0.004	141.3	74.2	115.1	0.9	2.7	61111
LvM-065	BR05-DD01	455.0	681.8	786.2	0.003	136.7	69.7	139.3	1.4	2.9	58567
LvM-066	BR05-DD01	456.3	703.2	759.3	0.004	138.2	70.2	123.5	1.6	2.9	58827
LvM-067	BR05-DD01	457.2	708.0	550.4	0.004	139.6	73.6	94.8	1.3	2.9	62454
LvM-068	BR05-DD01	458.2	718.2	874.8	0.005	134.4	67.7	92.3	1.2	3.0	57894
LvM-069	BR05-DD01	459.2	728.2	1113.5	0.005	132.2	64.0	128.9	2.6	2.9	54270
LvM-070	BR05-DD01	460.3	633.1	564.2	0.006	114.8	55.8	79.7	2.2	2.7	51141
LvM-071	BR05-DD01	461.0	612.3	698.2	0.003	98.1	50.6	116.8	0.3	1.9	50185
LvM-072	BR05-DD01	461.8	867.7	376.7	0.004	152.2	81.8	112.9	1.3	3.3	63881
LvM-073	BR05-DD01	463.4	614.4	334.7		117.7	65.8	116.0		2.8	65432
LvM-074	BR05-DD01	464.4	925.9	441.0	0.004	149.5	79.2	126.4	1.9	3.3	66503
LvM-075	BR05-DD01	466.1	623.2	292.3	0.004	143.7	70.3	115.0	0.6	2.9	69862
LvM-076	BR05-DD01	467.0	683.9	1720.4	0.004	111.6	50.7	129.2	1.8	2.6	48345
LvM-077	BR05-DD01	468.1	702.5	557.9	0.004	139.0	73.4	83.7	1.1	2.7	63437
LvM-078	BR05-DD01	469.1	725.0	1200.5	0.006	120.6	56.7	74.7	1.8	2.7	49533
LvM-079	BR05-DD01	470.1	358.5	2961.6		69.7	25.6	51.6	0.6	1.3	27530
LvM-080	BR05-DD01	471.0	644.6	630.3	0.006	108.8	52.7	88.3	1.1	2.8	53424
LvM-081	BR05-DD01	472.2	592.3	425.7	0.005	113.3	54.5	102.0	1.5	2.9	59369
LvM-082	BR05-DD01	473.1									
LvM-083	BR05-DD01	474.1	828.4	571.9	0.006	132.1	61.5	106.6	1.5	3.0	60383
LvM-084	BR05-DD01	475.0	702.9	588.2	0.005	120.5	57.3	260.7	2.6	2.7	56029
LvM-085	BR05-DD01	476.0	738.9	673.8	0.007	130.8	59.6	105.9	3.1	2.9	54419
LvM-086	BR05-DD01	476.7	762.5	771.7	0.006	123.8	57.9	101.8	2.5	2.7	53667
LvM-087	BR05-DD01	477.6	742.1	805.6	0.007	122.0	57.3	129.5	2.8	2.7	51419
LvM-088	BR05-DD01	478.0	724.7	731.8	0.007	124.0	57.7	110.5	3.2	2.8	54072
LvM-089	BR05-DD01	479.2	717.9	849.6	0.006	121.5	58.3	79.1	2.3	2.6	52390
LvM-090	BR05-DD01	480.0	722.8	789.1	0.007	122.6	58.2	178.3	3.0	2.7	53015
LvM-091	BR05-DD01	480.7	663.6	911.2	0.009	120.1	56.2	114.0	3.7	2.6	52131
LvM-092	BR05-DD01	481.2	665.8	851.5	0.009	118.1	56.8	77.1	4.1	2.7	55614

LvM-093	BR05-DD01	481.6	630.8	1303.3	0.007	107.4	49.3	87.1	3.7	2.4	49569
LvM-094	BR05-DD01	481.9	491.7	1358.3	0.004	62.2	27.0	84.3	2.2	1.2	28515
LvM-095	BR05-DD01	482.3	692.2	585.2	0.011	120.5	57.2	921.7	7.1	3.0	57435
LvM-096	BR05-DD01	482.7	585.4	489.4	0.006	89.0	50.6	304.4	4.6	3.7	59028
LvM-097	BR05-DD01	483.3	842.1	365.0	0.005	143.8	72.7	75.9	1.5	2.7	69876
LvM-098	BR05-DD01	483.6	885.2	362.7	0.007	151.2	74.0	73.2	0.7	2.7	67269
LvM-099	BR05-DD01	484.1	814.5	345.9	0.021	135.0	67.0	79.1	2.0	4.1	64453
LvM-100	BR05-DD01	484.6	844.9	378.1	0.007	143.7	73.0	80.2	0.7	3.3	65346
LvM-101	BR05-DD01	485.1	847.2	465.1	0.005	137.4	69.4	84.5	0.8	3.1	66795
LvM-102	BR05-DD01	485.7	894.2	465.8	0.004	136.1	68.8	77.1	0.8	3.0	67257
LvM-103	BR05-DD01	486.1	808.3	411.4	0.004	132.7	66.1	81.7	0.8	2.7	70433
LvM-104	BR05-DD01	487.3	878.6	413.7	0.004	140.8	71.6	81.0	0.9	2.5	66653
LvM-105	BR05-DD01	488.1	827.0	389.7	0.004	136.9	70.2	80.7	0.8	2.3	66901
LvM-106	BR05-DD01	488.6	879.9	385.5	0.004	141.4	71.9	81.7	0.9	2.5	69186
LvM-107	BR05-DD01	488.9	954.9	381.9	0.005	150.7	74.3	80.6	0.8	2.9	72643
LvM-108	BR05-DD01	489.0	650.4	513.7	0.014	108.6	52.8	63.5	1.6	6.3	57438
LvM-109	BR05-DD01	490.1	685.0	629.1	0.003	103.2	53.3	72.8	0.5	2.4	58945
LvM-110	BR05-DD01	491.1	715.8	561.4	0.004	110.3	57.0	76.4	0.6	2.4	59502
LvM-111	BR05-DD01	492.0	651.7	540.2	0.004	102.7	51.5	75.1	0.5	2.4	57393
LvM-112	BR05-DD01	492.8	642.0	528.9	0.004	98.5	51.6	76.5	0.6	2.2	57267
LvM-113	BR05-DD01	495.0	482.4	548.5		66.5	35.2	53.4	1.7	1.8	43543
LvM-114	BR05-DD01	498.6	445.9	550.7		62.2	33.9	49.6	0.6	2.0	41145
LvM-115	BR05-DD01	504.4	382.6	498.2		60.5	33.9	46.3	0.8	1.9	41904
LvM-116	BR05-DD01	509.3	402.3	466.4		63.6	35.7	50.8	0.5	1.9	41550
LvM-117	BR05-DD01	514.3	608.9	430.5	0.003	100.3	48.9	94.9	0.7	2.2	55471
LvM-118	BR05-DD01	521.1	547.3	468.5		82.3	41.4	53.2	0.3	2.0	46991
LvM-119	BR05-DD01	526.0	521.2	470.4		81.6	40.8	52.2	0.4	2.1	44775
LvM-120	BR05-DD01	531.2	496.0	404.8	0.006	86.8	45.4	45.3	0.6	2.2	44375
LvM-121	BR05-DD01	540.7	376.3	330.8		81.6	64.8	54.0		2.0	47768
LvM-122	Wallara-1	1289.7	761.1	1548.5		68.6	22.8	167.7	1.4	1.3	17650
LvM-123	Wallara-1	1291.2	820.9	555.0	0.005	179.4	71.4	143.8	3.6	3.7	62188
LvM-124	Wallara-1	1293.4	795.7	600.3	0.005	172.9	71.1	116.9	4.1	3.7	60560
LvM-125	Wallara-1	1295.2	558.5	3397.6	0.003	62.6	21.7	1321.7	2.1	1.3	18830
LvM-126	Wallara-1	1297.4	849.1	544.6	0.006	194.0	76.0	87.6	4.4	3.9	61385
LvM-127	Wallara-1	1298.4	616.7	4157.1	0.003	65.8	22.9	275.2	4.7	1.3	21512
LvM-128	Wallara-1	1299.1	608.2	3312.5	0.006	118.1	45.2	150.9	3.5	2.5	41856
LvM-129	Wallara-1	1301.1	809.2	1117.9	0.008	149.3	64.0	165.0	9.9	3.3	56925
LvM-130	Wallara-1	1303.3	662.2	2281.5	0.008	127.4	54.9	62.1	5.8	2.9	50673
LvM-131	Wallara-1	1304.2	800.4	787.2	0.013	151.4	67.0	84.5	9.0	3.1	63560
LvM-132	Wallara-1	1304.8	818.9	689.2	0.011	161.8	72.5	112.5	14.4	3.2	67553
LvM-133	Wallara-1	1305.3	539.8	867.2	0.005	81.3	43.4	96.8	12.6	3.3	47909
LvM-134	Wallara-1	1305.8	659.9	1689.1		89.2	47.9	33.2	0.5	2.4	49775
LvM-135	Wallara-1	1306.1	684.9	1424.8		85.3	46.6	32.0	0.5	2.7	49176

LvM-136	Wallara-1	1306.3	598.5	2315.8	0.003	75.3	38.6	26.8	0.8	3.0	45048
LvM-137	Wallara-1	1306.8	208.2	1346.5		27.7	15.7	747.4	12.6	1.6	19297
LvM-138	Wallara-1	1310.0	445.5	691.3		69.6	36.6	27.6	0.5	1.5	41916
LvM-139	Wallara-1	1318.8	327.4	509.0	0.003	50.6	30.7	26.1	0.4	1.5	33841

Table 3:

XRD data from the BR05-DD01 and Wallara-1 core

Sample Code	Quartz (%)	K-feldspar (%)	Plagioclase (%)	Calcite (%)	Dolomite (%)	Ankerite (%)	Gypsum (%)	Sylvite (%)	Pyrite (%)	Hematite (%)	Iron oxide (%)	Muscovite (%)	Illite Smectite (%)	Berthierine (%)	Kaolinite (%)
LvM-024	33.0	12.0	11.0	8.0	5.0							30.0		1.0	
LvM-025	30.0	8.0	5.0	5.0	3.0					2.0		42.0		1.0	4.0
LvM-026	16.0	26.0	5.0	3.0	2.0							32.0		1.0	7.0
LvM-027	26.0	10.0	4.0	5.0	4.0					2.0		35.0		1.0	
LvM-028	13.0	7.0	7.0		10.0							28.0	29.0	1.0	6.0
LvM-029	41.0				46.0							13.0			
LvM-030	63.0		5.0		12.0							12.0		2.0	
LvM-031	61.0		17.0	5.0	10.0							6.0		2.0	
LvM-032	70.0	14.0		4.0	8.0							3.0		1.0	
LvM-033	37.0				5.0				3.0			21.0	27.0	1.0	
LvM-034	45.0		12.0	3.0	7.0	3.0						25.0		1.0	
LvM-035	35.0				10.0						2.0	51.0		2.0	
LvM-036	26.0				4.0						1.0	47.0	15.0	2.0	
LvM-037	41.0	15.0	6.0	3.0	4.0						1.0	27.0		2.0	
LvM-038	32.0	15.0	14.0		5.0	5.0				tr		23.0		2.0	
LvM-039	30.0				17.0				1.0		1.0	30.0	15.0	2.0	
LvM-040	27.0	7.0	3.0		4.0							32.0	23.0	3.0	
LvM-041	18.0	8.0	7.0		3.0				1.0		1.0	29.0	28.0	1.0	
LvM-042	23.0		7.0		5.0							38.0	25.0	2.0	
LvM-043	17.0	7.0	8.0	2.0	2.0							33.0	27.0	1.0	
LvM-044	44.0		16.0		8.0				4.0		2.0	12.0		4.0	
LvM-045	23.0				5.0						2.0	36.0	24.0	3.0	
LvM-046	26.0					3.0						47.0	18.0	2.0	
LvM-047	24.0		11.0		5.0							46.0	6.0	2.0	
LvM-048	19.0		9.0		4.0						1.0	33.0	28.0	2.0	
LvM-049	18.0	8.0	9.0		3.0							21.0	36.0	4.0	
LvM-050	23.0				4.0							40.0	28.0	2.0	
LvM-051	28.0	5.0	11.0		4.0							34.0	12.0	2.0	
LvM-052	21.0				5.0							41.0	27.0	2.0	
LvM-053	21.0		10.0			6.0					1.0	22.0	31.0	6.0	
LvM-054	29.0	9.0	3.0		4.0							42.0	6.0	2.0	
LvM-055	36.0				6.0				1.0		2.0	17.0	30.0	6.0	
LvM-056	20.0	7.0			6.0				1.0			28.0	32.0	1.0	
LvM-057	54.0	14.0	10.0	11.0	5.0							1.0		1.0	
LvM-058	53.0			4.0	9.0		2.0		2.0		9.0	10.0		3.0	

LvM-059	37.0		11.0		4.0				2.0		1.0	38.0		2.0	
LvM-060	34.0	7.0	8.0	2.0	4.0					tr	tr	36.0		1.0	
LvM-061	50.0		13.0		6.0						2.0	25.0		4.0	
LvM-062	35.0	14.0	13.0		4.0								31.0	2.0	
LvM-063	23.0				4.0							49.0	11.0	5.0	
LvM-064	28.0		7.0		9.0						1.0	22.0	20.0	7.0	
LvM-065	28.0				6.0				1.0			13.0	46.0	2.0	
LvM-066	34.0		12.0		9.0				1.0		1.0	23.0	7.0	2.0	
LvM-067	22.0				4.0							47.0	22.0	2.0	
LvM-068	32.0		15.0		9.0						1.0	28.0	6.0	2.0	
LvM-069	26.0	11.0	12.0		10.0				2.0		1.0	20.0	7.0	2.0	
LvM-070	31.0	36.0	4.0		5.0				1.0			19.0		2.0	
LvM-071	31.0	18.0	13.0	6.0	2.0		1.0					9.0	19.0	2.0	
LvM-072	23.0	12.0	2.0		3.0							20.0	37.0	2.0	
LvM-073	37.0	16.0	16.0		3.0							25.0		3.0	
LvM-074	31.0	8.0	13.0		3.0							28.0	13.0	2.0	
LvM-075	35.0	26.0	5.0									13.0	19.0	2.0	
LvM-076	32.0		5.0		15.0				6.0			27.0		15.0	
LvM-077	23.0	8.0			5.0				1.0			24.0	29.0	2.0	
LvM-078	34.0	9.0	15.0		8.0				1.0			32.0		1.0	
LvM-079	18.0			1.0	41.0	17.0						12.0		4.0	
LvM-080	47.0	13.0	5.0		3.0				1.0			28.0		2.0	
LvM-081	52.0	8.0	15.0		6.0				1.0			14.0		4.0	
LvM-082	9.0			1.0	90.0										
LvM-083	26.0	9.0	14.0		4.0				1.0			36.0		6.0	
LvM-084	44.0	14.0	10.0		4.0				1.0		1.0	24.0		2.0	
LvM-085	43.0	12.0	11.0		7.0				1.0		1.0	22.0		2.0	
LvM-086	40.0	12.0	12.0		10.0				1.0			23.0		3.0	
LvM-087	38.0	13.0	9.0		12.0				2.0		1.0	23.0		2.0	
LvM-088	41.0		11.0		6.0				2.0			26.0		2.0	
LvM-089	42.0	13.0	12.0		13.0				2.0			16.0		2.0	
LvM-090	37.0	11.0	8.0		10.0				1.0			31.0		2.0	
LvM-091	34.0	13.0	13.0		12.0				2.0			11.0		15.0	
LvM-092	34.0	11.0	16.0		10.0				2.0			8.0		12.0	
LvM-093	27.0	15.0	16.0		22.0				2.0			18.0		1.0	
LvM-094	25.0	18.0	16.0	1.0	31.0				1.0			5.0		2.0	
LvM-095	58.0	9.0	16.0		5.0				2.0			7.0		2.0	
LvM-096	48.0	9.0	14.0		5.0				1.0			17.0		6.0	
LvM-097	16.0	7.0	10.0		2.0							33.0	25.0	1.0	
LvM-098	19.0	18.0	9.0		2.0							32.0	17.0	4.0	
LvM-099	23.0		7.0						3.0		1.0	41.0	14.0	3.0	
LvM-100	24.0	14.0	8.0		2.0							20.0	32.0	1.0	
LvM-101	29.0				2.0							30.0	32.0	1.0	6.0
LvM-102	22.0	9.0	8.0		2.0					1.0		32.0	20.0	1.0	4.0
LvM-103	19.0	13.0	7.0		1.0					1.0		31.0	26.0	1.0	2.0
LvM-104	23.0				3.0					1.0		38.0	28.0	1.0	6.0
LvM-105	26.0	9.0	6.0			2.0				1.0		36.0	15.0	1.0	4.0
LvM-106	20.0	6.0			2.0					1.0		31.0	34.0	1.0	5.0
LvM-107	19.0		7.0		2.0				1.0			43.0	21.0	1.0	7.0
LvM-108	32.0	18.0	9.0		7.0							26.0		8.0	
LvM-109	37.0	11.0	8.0		8.0					1.0		25.0		1.0	8.0
LvM-110	26.0		11.0		8.0					2.0		53.0			
LvM-111	31.0	8.0	12.0		7.0							23.0		7.0	11.0
LvM-112	29.0	8.0	10.0		5.0							39.0		1.0	7.0
LvM-113	26.0	6.0	21.0		9.0							38.0		1.0	
LvM-114	56.0	9.0	7.0	6.0	16.0								7.0		
LvM-115	37.0	34.0	10.0		13.0							2.0	4.0		
LvM-116	54.0	16.0	7.0		16.0							6.0			

LvM-117	44.0	24.0	8.0		15.0						9.0			
LvM-118	58.0	14.0	9.0		17.0						1.0		1.0	
LvM-119	54.0	16.0	8.0		21.0						1.0			
LvM-120	51.0	7.0	9.0		11.0						23.0			
LvM-121	16.0	7.0			19.0						40.0	17.0		
LvM-122	12.0		14.0		65.0			1.0			8.0			
LvM-123	35.0		12.0		6.0			2.0			31.0	7.0	8.0	
LvM-124	58.0		17.0		10.0			3.0		2.0	8.0		3.0	
LvM-125	14.0		14.0		55.0		3.0	1.0			9.0		3.0	
LvM-126	41.0	13.0	15.0		8.0			2.0			19.0		2.0	
LvM-127														
LvM-128	33.0		19.0		35.0			2.0			9.0		3.0	
LvM-129	48.0		17.0		16.0			3.0			13.0		3.0	
LvM-130	32.0	10.0	9.0		18.0			5.0			10.0	9.0	2.0	
LvM-131	31.0	9.0	9.0		5.0			6.0			11.0	25.0	1.0	
LvM-132	37.0	7.0	20.0		5.0			2.0			22.0		7.0	
LvM-133	37.0	10.0	12.0		15.0			1.0			9.0	10.0	2.0	
LvM-134	30.0	17.0	5.0		28.0			1.0			19.0			
LvM-135	27.0	7.0	14.0		23.0			1.0			27.0			
LvM-136	25.0		10.0		23.0						39.0		1.0	
LvM-137														
LvM-138	37.0	24.0	12.0		14.0						6.0	6.0	1.0	
LvM-139	37.0		13.0		27.0						6.0	16.0		