

Cooperative Research Centre for Landscape Environments and Mineral Exploration







REGOLITH CHARACTERISATION AND GEOCHEMISTRY AS AN AID TO MINERAL EXPLORATION IN THE HARRIS GREENSTONE BELT, CENTRAL GAWLER CRATON, SOUTH AUSTRALIA.

Volume 2

M.J. Sheard and I.D.M. Robertson

CRC LEME OPEN FILE REPORT 155

May 2004

(PIRSA-Minerals and Energy Resources Group, South Australia, Report Book, 2003/10 CSIRO Exploration and Mining, Report 1165F)

CRC LEME is an unincorporated joint venture between CSIRO-Exploration & Mining, and Land & Water, The Australian National University, Curtin University of Technology, University of Adelaide, Geoscience Australia, Primary Industries and Resources SA, NSW Department of Mineral Resources and Minerals Council of Australia, established and supported under the Australian Government's Cooperative Research Centres Program.







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Volume 2: Appendices

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APPENDIX 1 DRILLHOLE LOGS, CHIP SAMPLES AND CORE PHOTOS

- A1.0 Background Explanations
- A1.1 Drillhole location data, geological logs and associated assay data (Refer also to Appendix 7 CD-ROM).
- A1.2 Regolith logs to 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well.
- A1.3 Chiptray photos, 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well.
- A1.4 Regolith logs to 3 cored drillholes, KLHRDD-1 (Lake Harris), THHRDD-1 (Hopeful Hill), and TMWRDD-1 (Mullina Well)
- A1.5 Core tray photos for drillholes: KLHRDD-1, THHRDD-1, & TMWRDD-1

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A1.0 Background Explanations

A1.1: Drillhole location data, geological logs & assay data (refer, Appendix 7 CD).

- File: "Harris GsB drillhole locations 2001.xls" is an Excel spreadsheet containing the basic drilling and sampling details for each hole drilled as part of the PIRSA sponsored & TEiSA funded Harris Greenstone Belt investigations for 2001. This file contains all relevant data on holes drilled for that program but only some of those were included in the associated regolith study. Bottom hole lithology is included. Details are available in: Davies, M.B., 2002a. Harris Greenstone Domain Bedrock Drilling, May–August 2001. South Australia. Department of Primary Industries and Resources. Report Book, 2002/11. A single page example is printed herein.
- File: "Harris GsB drillhole locations 2002.xls" is an Excel spreadsheet containing the basic drilling and sampling details for each hole drilled as part of the PIRSA sponsored & TEiSA funded Harris Greenstone Belt drilling for 2002. This file contains all relevant data on holes drilled for that program but only some of those were included in the associated regolith study. Bottom hole lithology is included. Details are available in: Davies, M.B., 2002b. Harris Greenstone Domain bedrock drilling Phase 2: June–August 2002. South Australia. Department of Primary Industries and Resources. Report Book, 2002/29. A single page example is printed herein.
- File: "Harris GsB drillhole logs, geology.xls" is an Excel spreadsheet containing the geology logs and assay results for each drillhole sample, drilled as part of the PIRSA sponsored & TEiSA funded Harris Greenstone Belt drilling programs for 2001 & 2002. This file contains all relevant data on the 130 holes drilled for those programs but only 55 of those were included in the associated regolith study. Details are available in: Davies, M.B., 2002a, b (cited above). A single page example is printed herein.

A1.2: Regolith logs to 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well.

There is a regolith log for each of the 55 selected drillholes taken from the PIRSA sponsored & TEiSA funded Harris Greenstone Belt drilling programs for 2001 & 2002. These have been constructed in Excel spreadsheets containing regolith zonation logs on four descriptive levels. Each log has a coloured graphic column plus assay sample intervals marked with black & grey bars. Only a representative trio from each of the three study areas are printed in hard copy herein but the Appendix 7 CD-ROM file: "HGB selected aircore holes, regolith logs.xls" has drill line areas on separate sheets, at the top and right side of which appears a pseudo cross-section compiled from all the coloured graphic logs (the pseudo-section is not spatially or topographically scaled).

A1.3: Chiptray photos, 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well.

Chiptray photos of chip samples from the 2001 aircore drilling are provided in banks of ~6 trays per photo with explanations on interleaved pages. These photos only display the first 40 m of sample or less, but many drillholes actually penetrated much further. The photos are numbered A1P1-A1P10, with drillhole numbering for trays going left to right. These also appear in the Appendix 7 CD-ROM Folder: "Chiptray photos" which contains jpeg format image files.

A1.4: Regolith logs to 3 cored drillholes, KLHRDD-1 (Lake Harris), THHRDD-1 (Hopeful Hill), and TMWRDD-1 (Mullina Well)

Regolith logs to the three cored drillholes appear as Tables A1.1-A1.3 covering 11 pages. These include drillhole location data, regolith descriptions, a coloured graphic log, comments regarding drilling conditions, indicators to the depth spans of core photos and geologists involved. These logs have been designed for printing out from the Appendix 7 CD-ROM file: "HGB regolith core, 3 holes, logs.doc", allowing for hard copy assembly into one long sheet if desired. A consistent graphic log colour scheme was adopted to allow for inter drillhole comparisons, (Note: logs are not truly vertically scaled).

A1.5: Core tray photos for drillholes: KLHRDD-1, THHRDD-1, & TMWRDD-1

Photos of core tray samples from the 2002 regolith core drilling are numbered A1P11-A1P35, followed by location name, drillhole attitude and number plus core tray depicted. They are provided in three location specific sets with interleaved description pages. A Folder and MS Word file containing the same photos with explanations in a tabular form on the CD-ROM, Appendix 7.

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A1.1: Drillhole location data.

A1.11 An example page from the CD-ROM File: "Harris GsB drillhole locations 2001.xls" is displayed overleaf.

D/hole No	. Zone	e Easting	Northing E	rror Altitude (m) Total Depth (m)	bottom hole lithology	depth to basement (m)	start date	e finish date	logged by	Drilling Co.	aircore HQ	open hole percussion	diamond NQ2
KIN 37	53J	511995	6570321		24	ironstone	>24	23-May	24-May	M B Davies	s Budd	0-24		
KIN 38	53J	511999	6570425		26	silcrete/granite	24	24-May	24-May	M B Davies	s Budd	0-26		
KIN 39	53J	512027	6570659		33	basalt	22	24-May	24-May	M B Davies	s Budd	0-33		
KIN 40	53J	512044	6570995		25	basalt	20	24-May	24-May	M B Davies	s Budd	0-25		
KIN 41	53J	512044	6571280		26	silcrete/granite	22	24-May	24-May	M B Davies	s Budd	0-26		
KIN 42	53J	512045	6571414		30	basalt	22	24-May	24-May	M B Davies	s Budd	0-30		
KIN 43	53J	511900	6572250		28	gneiss	24	25-May	25-May	M B Davies	s Budd	0-28		
KIN 44	53J	511940	6579294		29.4			02-Jun	02-Jun	S Daly	Budd			
KIN 45	53J	511909	6577456		46			03-Jun	03-Jun	S Daly	Budd			
KOK 1	53J	511656	6565404		24	felsite	16	23-May	23-May	S Daly	Budd	0-24		
KOK 2	53J	511710	6565649		39.5	altered u/m	20	23-May	24-May	S Daly	Budd	8-12, 34-39.5	0-8, 12-34	
KOK 3	53J	511745	6565801		34	gneiss	33	24-May	24-May	S Daly	Budd	13-34	0-13	
KOKDD 4	53J	511798	6566021		36.2	altered u/m	12	24-May	27-May	S Daly/ M B Davies	Budd S	0-31.4		31.4-36.2
KOK 5	53J	511817	6566171		71	mafic	12	24-May	25-May	S Daly	Budd	Dec-1971	0-12	
KOK 6	53J	511858	6566418		50	altered u/m	14	25-May	25-May	S Daly	Budd	Oct-1950	0-10	
KOKDD 7	53J	511864	6566453		45.6	altered u/m	11	25-May	29-May	S Daly/ M B Davies	Budd S	10-41.4	0-10	41.4-45.6
KOK 8	53J	511876	6566618		34.7	altered u/m	10	25-May	25-May	S Daly	Budd	12-34.7	0-12	
KOK 9	53J	511912	6566839		40.7	altered u/m	10	26-May	26-May	S Daly	Budd	10-40.7	0-10	
KOK 10	53J	511844	6566989		32.8	ultramafic	10	26-May	26-May	S Daly	Budd	0-32.8		
KOK 11	53J	511775	6567128		23.6	altered u/m	14	26-May	26-May	S Daly	Budd	0-23.6		
KOK 12	53J	511754	6567285		36	ultramafic	18	26-May	26-May	S Daly	Budd	0-16, 18-36	16-18	
KOKDD 13	53J	511779	6567440		69.9	altered u/m	20	26-May	31-May	M B Davies	s Budd	0-15, 24-65.3	15-24	65.3-69.9

A1.1: Drillhole location data.

A1.12 An example page from the CD-ROM File: "Harris GsB drillhole locations 2002.xls" is displayed overleaf.

D/hole No.	Zone	Easting (GDA94)	Northing (GDA94)	Total Depth (m)	depth to basement (m)	azimuth (true nth)	inclination	bottom hole lithology	comments
KIN 37	53J	511995	6570321	24	>24	0	90	ironstone	
KIN 38	53J	511999	6570425	26	24	0	90	silcrete/granite	High tungsten, 1945ppm, probable contamination from drill bit. Altered basalt, GRV?
KIN 39	53J	512027	6570659	33	22	0	90	basalt	vesicular basalt, GRV
KIN 40	53J	512044	6570995	25	20	0	90	basalt	probable andesite, GRV
KIN 41	53J	512044	6571280	26	22	0	90	quartz-feldspar	
	501	540045	0574444					rock	brecciated, altered volcanic, probable GRV
KIN 42	53J	512045	6571414	30	22	0	90	basalt	altered fragmented andesite, GRV?
KIN 43	53J	511900	6572250	28	24	0	90	gneiss	altered olivine basalt, GRV
KIN 44	53J	511940	6579294	29.4	>29.4	0	90	silcrete	silcrete
KIN 45	53J	511909	6577456	46	>46	0	90	sand	high water flow in free flowing sands
KOK 1	53J	511656	6565404	24	16	0	90	felsite	GRV, altered basalt or andesite
KOK 2	53J	511710	6565649	39.5	20	0	90	altered u/m	Clay-rich, possible volcanic sediment, GRV?
KOK 3	53J	511745	6565801	34	33	0	90		volcanic, fine to medium-grained sandstone, GRV
KOKDD 4	53J	511798	6566021	36.2	12	0	90	altered matic rock	
KOK 5	531	511817	6566171	71	12	0	90	mafic	weakly foliated, plagioclase-rich amphibolite, metamorphosed volcanic sandstone
KOK 6	53.1	511858	6566418	50	12	0	90	altered u/m	talc-rich metakomatilte
	531	511864	6566453	45.6	11	0	90	altered u/m	matic or ultramatic cumulate
KOK 8	53.1	511876	6566618	34.7	10	0	90	altered u/m	low-mg komatilte, feather quench textures
KOK 9	53.1	511912	6566839	40.7	10	0	90	altered u/m	metasomatic band in metakomatiite
	531	511844	6566989	32.8	10	0	90	altered u/m	metakomatiite with spinifex texture
	53.1	511775	6567128	23.6	10	0	90	altered u/m	andesite dyke
	531	511754	6567285	36	14	0	90 90	ultramafic	metakomatiite with spinifex texture
	53.1	511779	6567440	69.9	20	0	90	altered u/m	equant olivine zone in metakomatiite
KOK 14	53.1	511797	6567928	50	14	0	90	altered u/m	metakomatute with spinitex texture
KOKDD 15	53J	511814	6567812	37.6	16	0	90	felsic rock	opalised olivine adcumulate, possible harrisitic texture @ 26-28m.
KOK 16	53J	511827	6568334	33	14	0	90	basalt	weethered aphyric baselt CDV
KOK 17	53J	511854	6568757	51	34	0	90	basalt	weathered applying basall, GRV
KOKDD 18	53J	511905	6569590	66.1	42	0	90	rhyolite	aphyria yaciaylar basalt CBV
KOK 19	53J	511945	6569953	40	36	0	90	basalt	aphylic, vesicular basalt, GRV
KOKDD 20	53J	511741	6567203	45.8	16	0	90	altered u/m	altered vesicular basali, GRV
KOK 21	53J	511775	6565911	58.8	23	0	90	ultramafic?	miclaromatine with spirillex texture
KOK 22	53J	511839	6566297	43	13	0	90	altered u/m	misioy : i oliated amphibolite, metabasait : metakomatiite
KOK 23	53J	511901	6566746	34	11	0	90	altered u/m	low-ma komatiite

A1.1: Drillhole geological logs & assay data.

A1.13 An example page from the CD-ROM File: "Harris GsB drillhole logs, geology.xls" is displayed overleaf.

HOLE	# FRON	ИТО	LITHOLOGY	COMMENTS	MAG SUSC (SI X10-5)	ASSAY	INTERVA	.L (m)
						from	to	R #
TAR7	0	2	SAND, red-brown, silty to granules & pebbles of vein-quartz & CALCRETE					
	2	4	SANDSTONE, red-brown, indurated, poorly sorted, quartzose, fine-grained to gritty, sub-rounded, partially silicified & ferruginised					
	4	6	SANDSTONE, AA & GRIT to PEBLES					
	6	8	AA					
	8	10	SANDSTONE, cream to red-brown, silicified, clayey, poorly sorted, fine-grained to gritty, subrounded					
	10	12	AA					
	12	14	AA					
	14	16	CLAY, sandy & MAFIC ROCK, pale green, weathered with vitreous lustre	basement @ 15m				
	16	18	FRAGMENTAL ROCK, pale grey, 2-5mm fragment size, some elongate (altered feldspar?)					
	18	20	AA			18	20	473463
	20	22	AA			20	22	473464
TAR8	0	2	SAND, red-brown, silty to gritty & CALCRETE					
	2	4	SANDSTONE, red-brown, indurated, poorly sorted, quartzose, fine-grained to gritty, sub-rounded, silicified & ferruginised					
	4	6	AA					
	6	8	AA, trace MAFIC ROCK					
	8	10	MAFIC ROCK, dark red-brown, fine-grained, very weathered	top basement		8	14	473466
	10	12	AA, bright green to dark red-brown					
	12	14	AA					
	14	16	AA, pale blue-green, foliated			14	20	473467
	16	18	AA, grey-green					
	18	20	AA, grey green to dark brown					
	20	22	AA, pale green					
	22	24	AA					
	24	26	AA					
	26	28	CLAY, pale green					
	28	30	CLAY, pale brown					
	30	32	MAFIC ROCK, grey, fine-grained					
	32	34	AA			32	34	473468
	34	36	AA			34	36	473469
TAR9	0	2	SAND, red-brown, silty to granules & pebbles of milky quartz & LAG of ironstone					
	2	4	SANDSTONE, AA, abundant grit size, minor LAG of ironstone					
	4	6	MAFIC ROCK, red-brown to cream, deeply weathered, fine-grained	top basement				
	6	8	AA					

A1.2 Regolith logs to 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well.

A1.21 Regolith logs: 3 examples from the 22 aircore drillholes, Lake Harris. All are available from the CD-ROM, file – "HGB selected aircore holes, regolith logs.xls".

		Provenance			A		1
		Τ=			s	Granhi	Sample Description (or - number): colorate and reaction where 3 - strong
	Sample	trongnorted			s		a mole description (al - humber), calcrete acid reaction where 2 - strong,
	Jampie	transporteu,			а		
Drillhole	aeptn	1 = in-situ	Basic Colour(s)	Regolith Zone	У	Log	
KOK 3						KOK 3	
	00-02	Т	red-brown	sediment cover + calcrete			fluvial sand + soil with calcrete, clayey sand, angular-rounded clasts - colluvium, (ar = 2).
	02-04	ТЛ	red-brown	sediment + pedolith, silcreted			AA, silcreted + quartz-rich grit, clay poor plasmic zone, in part weakly ferruginous (ar = 2).
	04-06	I	red-brown	pedolith: arenose zone, silcreted			quartz-rich grit, clay poor plasmic zone, in part weakly ferruginous (ar = 0).
	06-08	I	red-brown	pedolith: arenose zone, silcreted			
	08-10	I	red-brown - cream	pedolith: arenose zone, silcreted			
	10-12	I	cream - pallid	pedolith, silicified			clay-rich zone with angular quartz grains (igneous) + black flecks (graphite or FeOx) partly silicified
	12-14	I	cream - pallid	pedolith, silcreted			clay-rich zone with angular quartz grains (igneous) + black flecks (graphite or FeOx) silcreted to partly silicified
	14-16	I	pinkish & cream + greenish	pedolith-clay saprolite			clay-rich zone, moderately coloured to pallid-tinted, little to no visible quartz.
	16-18	I	cream + green tint	clay saprolite			clay-rich zone, pallid-tinted, little to no visible quartz.
	18-20	I	cream + green tint	clay saprolite			
	20-22	I	cream + green tint	clay saprolite			
	22-24	I	cream + green tint	clay saprolite			
	24-26	I	cream + yellowish overprint	lower saprolite		Fe	AA with strong yellow-orange FeOH staining.
	26-28	I	cream + yellowish overprint	lower saprolite			AA with relict foliation or textural banding - similar to that seen in EOH samples.
	28-30	I	cream + yellowish overprint	lower saprolite			
	30-32	I	cream + yellowish overprint	lower saprolite			
	32-34	I	brownish - greyish	saprock-protolith			felsic fine-grained rock, undeformed, partially to non weathered.
	EOH					EOH	
KOK DD7						KOK DD7	
	00-02	Т	red-brown	sediment cover + calcrete			soil, sandy + calcrete (ar = 2)
	02-04	ТЛ	browns	sediment + pedolith, silcreted			colluvium, multi-lithic clasts, rounded to angular + pedolith + vein quartz, silicified (ar = 2).
	04-06	I	browns	pedolith; arenose zone, silcreted			quartz grit-rich, Mn & Fe stained, silcreted (ar = 1).
	06-08	I	grey & cream	pedolith, silcreted			clay + quartz grit, pallid, chalcedony & quartz veins, silicified (ar = 0).
	08-10	I	grey & cream	pedolith, silcreted			
	10-12	I	dark red-brown & greenish	pedolith, ferruginous		Fe, Fe	friable clay-rich material with dark hued Fe & Mn rich clay seams+ black FeOx granular segragations.
	12-14	I	greenish to off-white + grey	clay saprolite			AA with darker greenish + yellow-brown to khaki flecking
	14-16	I	pale greenish	clay saprolite			
	16-18	I	pale greenish	saprolite		Ni	friable Ni green stained clay-rich material with relict foliation.
	18-20	I	pale greenish	saprolite		Ni	
	20-22	I	pale greenish	saprolite		Ni	
	22-24	I	pale greenish	saprolite		Ni	
	24-26	I	pale greenish	saprolite		Ni	
	26-28	I	greenish - medium grey	lower saprolite			AA but more coherent
	28-30	I	greenish - medium grey	lower saprolite			
	30-32	I	greenish - medium grey	lower saprolite			
	32-34	I	greenish - medium grey	lower saprolite			
	34-36	I	greenish - medium grey	lower saprolite			
	36-38	I	grey - greenish & yellow-brn	lower saprolite - saprock			coherent partially weathered ultramatic rock becoming less weathered with depth.
	38-40	I	grey - greenish & yellow-brn	lower saprolite - saprock			
	40-42		grey - greenish & yellow-brn	lower saprolite - saprock			
	42-44		pale green	saprock - protolith			partially weathered ultramafic rock, fine-grained, chloritic, thin clay coatings on fractures, protolith by 45 m.
	44-45.6		pale green	saprock - protolith			AA, serpentinite + minor clays
	NQ2 🔻					NQ2	

Example work sheet from the regolith logs (Excel file): Lake Harris, aircore drillhole KOK03, into a weathered granite profile and KOK DD7 into a weathered ultramafic profile.

		Provenance			A		
		Т=			s	Graphi	
	Sample	transported			s		Presente Presentintian de la companya de la
	Sample	transporteu,			a	۲.۲	Sample Description (ar = number): calcrete acid reaction where 2 = strong,
Drillhole	depth	I = in-situ	Basic Colour(s)	Regolith Zone	У	Log	1 = moderate, 0 = none
KOK 17						KOK 17	
	00-02	Т	red-brown	sediment cover + calcrete			clay with abundant sand + calcrete (ar = 2).
	02-04	Т	cream - very pale brown	sediment cover			clay-rich pallid material (ar = 0).
	04-06	Т	pale brown	sediment cover			clay-rich, weakly coloured puggy material
	06-08	Т	pale brown	sediment cover			AA
	08-10	Т	pale brown	sediment cover, part silicified			clay & rounded quartz sand - gravel, medium- course-grained & encapsulated in silcrete, rest variably silicified.
	10-12	Т	pale brown	sediment cover, part silicified			
	12-14	I	pale grey + yellow-browns	pedolith; mottled zone		Fe	clay-rich + quartz grit, mottled or strongly colour banded-stained.
	14-16	I	off-white, grey & brownish	pedolith			clay-rich + quartz grit
	16-18	I	medium grey + grey-brown	pedolith; mottled zone			clay-rich + quartz grit, mottled or strongly colour banded-stained.
	18-20	I	dk-med. grey, It brown, white	pedolith; mottled zone			AA
	20-22	I	dk-med. grey, It brown, white	pedolith; mottled zone			
	22-24	I	white - cream	clay saprolite			clay-rich massive material, weakly coloured
	24-26	I	pale yellow-brown + off-white	clay saprolite			clay-rich massive material, weak - moderately coloured
	26-28	I	pale yellow-brown + off-white	clay saprolite			clay-rich massive material, weakly coloured
	28-30	I	pale yellow-brown + off-white	clay saprolite			
	30-32	I	pale yellow-brown + off-white	clay saprolite			
	32-34	I	cream, pale brown, off-white	upper saprolite			clay-rich massive material, weak - moderately coloured
	34-36	I	cream, pale brown, off-white	upper saprolite			
	36-38	I	yellow-brown, cream, greys	lower saprolite			clay-rich massive material, moderately coloured
	38-40	I	yellow-brown, cream, greys	lower saprolite			
	40-42	I	yellow-brown, cream, greys	lower saprolite			
	42-44	I	yellow-brown, cream, greys	lower saprolite			AA
	44-46	I	brownish + greys	lower saprolite - saprock		Fe	AA with relict lithic core-stones of fine-grained weathered basic igneous rock + clays & FeOx staining
	46-48	I	brownish + greys	lower saprolite - saprock		⊂e	
	48-50	I	dark greys + browns	saprock		Fe	weathered basic igneous rock + clays, fine-grained relict texture + FeOH staining.
	50-52	I	dark greys + yellow-browns	saprock - protolith			partly weathered basalt, fine-grained, fracture staining
	EOH					EOH	

Example work sheet from the regolith logs (Excel file): Lake Harris aircore drillhole KOK 17 into a weathered basaltic greenstone profile.

12

A1.22 Regolith logs: 3 examples from the 12 aircore drillholes, Hopeful Hill. All are available from the CD-ROM, file – "HGB selected aircore holes, regolith logs.xls".

		Provenance			A		
		Т=			s	Graphi	
	Sample	transported			s		
	Sample	transported,			a		Sample Description (ar = number): calcrete acid reaction where 2 = strong,
Drillhole	aeptn	1 = in-situ	Basic Colour(s)	Regolith Zone	У	Log	1 = moderate, 0 = none
TAR 16						TAR 16	
	00-02	Т	pale red-brown	sedimentary cover + calcrete			sand + silt + clay, calcrete (ar = 2).
	02-04	Т	red-brown	sedimentary cover + calcrete			
	04-06	Т	red-brown	sediment		_	AA, less calcareous (ar <1).
	06-08	Т	dark red-brown	sediment		Fe	AA + ferruginous sandstone & ferricrete fragments + calcrete (ar = 1).
	08-10	I	dark red-brown, yellow-brown	ferricrete duricrust	_	Fe Fe F	e sandy & silty, goethitic ferricrete + calcrete (ar = 1).
	10-12	I	AA + black	ferricrete duricrust		Fe Fe F	e AA but more indurated and blacker.
	12-14	I	cream & tan	pedolith & silcrete			clay + fine- to medium-grained grit, weakly coloured, thin silcrete bands.
	14-16	I	cream - pale greyish	pedolith & silcrete			AA but neutral hued.
	16-18	I	AA + brown	pedolith; mottled zone		Fe	clay + fine- to medium-grained grit, strongly colour mottled.
	18-20	I	pale gray	upper saprolite	-		sticky clay + quartz grit, pallid.
	20-22	I	pale gray	upper saprolite	-		
	22-24	I	pale yellow-green - grey	upper saprolite			AA, weakly coloured.
	24-26	I	pale yellow-green - grey	upper saprolite			
	26-28	I	pale grey & cream	lower saprolite			AA, darker neutral hues.
	28-30	I	dark grey - dark brown, black	saprock/protolith			e felsic igneous rock, aphanitic with some feldspar phenocrysts + pale clay minerals as fracture infill. >5%
715.45	EOH				_	EOH	
TAR 15		-				TAR 15	
	00-02	Т	pale brown	sedimentary cover + calcrete	_		clays, sandy, fine- to medium-grained, calcrete (ar = 2).
	02-04	Т	pale brown	sediment			AA with abundant massive calcrete (ar = 2)
	04-06	ТЛ	AA + brown	sediment + upper saprolite			AA + weathered basic-matic rock, fine- to medium-grained, chalcedony veins + nodular calcrete (ar =2).
	06-08		dark green, red-brown, black	saprock	-		partly weathered meta-matic rock
	08-10		dark green, red-brown, black	saprock	-		
	10-12	I	dark green, red-brown, black	saprock			
	12-14	1	near black, green, dk purple	protolith			Tresh meta-ultramatic rock with trace chalcedonic veining
	14-16		near black, green, dk purple	protolith			AA, serpentinitic
	16-18	1	near black, green, dk purple	protolith			
	18-20	1	near black, green, dk purple	protolith			
	20-22	1	near black, green, dk purple	protolith		5011	
TAD 44	EUH				+	EUH	
TAR 11	00.00		and have an	Constant		TAR 11	
	00-02	1	reg-prown	sedimentary cover + calcrete		ге	sand, sity + gravel lag including terruginous nodules, calcrete (ar ~2).
	02-04	1/1	dark red-brown	sediment + pedultri		Fe	Av with sichere peoples + transition to terruginous clay + grit restourn (ar – o).
	04-06	1	dark brown + dark red-brown	pedolith, re-duncrust		re re ri	eleringinous durcrust, duarz gnt + some clay with a goetnitic cement
	06-08		brown + cream + yellowish	pedolith; mottled-clay zone		re	clay-rich residuum, variably FeOx-FeOH mottled-stained
	10.10	1	pale grey-brown, cream, tan	upper saprolite	-		clay-rich residuum, weakly coloured to pallid
	10-12		pale grey-brown, cream, tan	upper saprolite	-		
	12-14	1	pale grey-brown, cream, tan	upper sapronte			An and a set of the se
	14-10	1	grey, gr-yell-brn, yellow-brow	nower sapronite			ciay + quarz grit, medum-grained, weakiy-moderately coloured, ubvious relict ioliation-texture
	10-10	1	grey, gr-yell-brn, yellow-brow	nower saprolite			
	10-20	1	grey, gr-yeir-bm, yeilow-brow	nower sapronite			
	20-22	1	grey, gr-yell-prn, yellow-prow	nower saprolite			AA
	22-24		grey, brown, dark pink	nower sapronte-saprock			natially weathered analogic rock, partially weathered, transition to below
	24-20	т	greys + cream	saprock			pantany weathered gherssic ruck with <20% weatherable minerals aftered.
	20-20	1 T	greys + cream	saprock			
	28-30		greys + cream	saproux		anoico	AAA
	30-32		dark-light greys, dark reds	protonitri		gneiss	incipientity weathered to tresh gheiss, assemblage of quartz-teidspar-blotite, medium- to course-grained.
	32-34	1	dark-light greys, dark reds	protonitri		interne l'	
	34-30	1 T	dark-light greys, dark feds	protonin		hoois	
	00-00		Juark-light greys, dark reds	procollich		Dasic	
	30-39	1	uark-light greys, dark feds	proconcil		gneiss	<u>m</u>
	L EOH				1	I EUH	

Example work sheet, regolith logs (Excel file): Hopeful Hill, aircore drillholes into: weathered felsic basement, weathered greenstone and weathered gneiss profiles

A1.23 Regolith logs: 3 examples from the 21 aircore drillholes, Mullina Well. All are available from the CD-ROM, file – "HGB selected aircore holes, regolith logs.xls".

		Provenance			Α										
		Т=			s	Granhi									
	0	1-			s	Graphi									
	Sample	transported,			а	с	Sample D	escription (a	r = number)	: calcrete ac	id reaction w	/here 2 = s	strong,		
Drillhole	depth	I = in-situ	Basic Colour(s)	Regolith Zone	У	Log	1 = moderate	e, O = none							
TAR 46						TAR 46									
	00-02	Т	orange & pale pink	sediment + cement			aeolian sand	, fine- to mediun	n-grained +	massive calc	rete, (ar = 2).			
	02-04	ТЛ	red-brown	sediment + cement + Fe-pedolith		Fe	colluvial sand	lstone-gritstone	to arenaceo	ous collapse	interval, FeC)H stained	l, polymict and	3. qtz grains	s (ar = 2).
	04-06	I	red-brown	pedolith			clay + silty-g	ritty quartz, friał	ole, weakly t	to moderatel;	y coloured (a	ar = 1)			
	06-08	Ι	red-brown	pedolith			AA (ar = <1).								
	08-10	Ι	tan - pale brown	pedolith			AA (ar = 0).								
	10-12	I	tan - pale brown	pedolith			AA								
	12-14	I	white - off-white, pale grey	upper saprolite			clay-rich mat	erial, some relic	t foliation, tl	hin silicified t	oands comm	ion			
	14-16	Ι	white - off-white, pale grey	upper saprolite			AA								
	16-18	I	white - off-white, pale grey	upper saprolite			AA								
	18-20	I	khaki - tan & brownish	lower saprolite			clay-rich mat	erial, relict foliat	ion & pale b	oluish-white v	ein quartz.				
	20-22	I	khaki - tan & red-brown	lower saprolite		Fe	AA with FeO	H staining or ?n	nottling						
	22-24	I	khaki - tan & red-brown	lower saprolite		Fe	AA								
	24-26	I	red-brown - greyish brown	saprock		Fe	weathered m	ylonitic felsic ro	ck, FeOH st	taining.					
	26-28	I	grey & pale brown	protolith			incipiently we	eathered mylonit	tic granite w	ith ultramylo	nite & schist	tose interb	ands, fine-to	medium-gr:	ained.
	28-30	I	grey & pale brown	protolith			AA								
	30-32	I	grey & pale brown	protolith			AA								
	32-34	I	grey & pale brown	protolith			AA								
	34-36	I	grey & pale brown	protolith			AA								
	EOH					EOH									
TAR 43						TAR 43									
	00-02	Т	orange & pale brown	sediment + cement			aeolian sand	fine- to mediun	n-grained, w	eakly clayey	+ sheet cal	crete (ar =	= 2).		
	02-04	Т	browns	sediment + cement			calcrete encl	osing polymict I	ithic fragme	nts, + sands	tone, poorly	sorted & i	immature, m-	coarse-grai	ned (ar = 2).
	04-06	Т	browns	sediment + cement			AA, variably i	ndurated, fine- t	o coarse-gr	ained, polym	ict clasts +	lithics, var	iably rounded	(ar = 1).	
	06-08	Т	browns	sediment + cement			AA (ar = 0).								
	08-10	Т	browns	sediment + cement			AA								
	10-12	Т	browns	sediment + cement			AA								
	12-14	I	cream & brown	pedolith + cement			clay-rich + q	uartz grit, silcret	ed, enclose	s fine-graine	d black mine	eral,			
	14-16	I	cream & brown	pedolith; mottled + cement		Fe, Fe	AA, strongly	mottled & stain	ed by FeOH	l, variably sili	cified.				
	16-18	I	pale green-grey, red-brown	pedolith; mottled		Fe	clay-rich, we	akly coloured bu	ut strongly m	nottled by Fe	OH.				
	18-20	I	pale green-grey + reddish	pedolith; mottled		Fe	AA, plastic c	lay.							
	20-22	I	dk red, cream, yellow-brown	pedolith; ferruginous		Fe, Fe	clay-rich, str	ongly coloured b	y FeOH & F	Fe Ox.					
	22-24	I	pale-med. grey + yell-brown	upper saprolite		Fe	clay-rich, slig	htly indurated, i	moderate Fe	eOH staining					
	24-26	I	pale-med. grey + yell-brown	upper saprolite		Fe	AA			Ĭ					
	26-28	I	AA + white + greenish	upper saprolite			AA but weak	ly Fe stained							
	28-30	I	AA	lower saprolite			AA but more	competent, stro	onger colour	s, FeOH stai	ning.				
	30-32	I	AA	lower saprolite			AA				-				
	32-34	I	AA + black & greens	saprock-protolith			variably weat	hered meta-bas	ic igneous n	ock, amphibo	olite (meta-b	asalt/dolei	rite) fine- to m	ed. grained	, altered on
	EOH					EOH	fractures.								

Example work sheet, regolith logs (Excel file): Mullina Well, aircore drillholes into: weathered granite and weathered basaltic greenstone profiles.

		Provenance			A											
		T =			s	Graphi										
	Sample	transported,			a	c	Sample	Descript	tion (ar =	number): c	alcrete acio	d reaction w	here 2 = st	rong,		
Drillhole	depth	I = in-situ	Basic Colour(s)	Regolith Zone	У	Log	1 = moder	rate, 0 = no	ne							
TAR 56						TAR 56										
	00-02	Т	red-brown	sediment + cement			aeolian sa	, nd, silty to	clayey + c	alcrete (ar	= 2).					
	02-04	Т	red-brown	sediment + cement			sand AA +	⊢ colluvial s	and-grit, pa	artly indurat	ted + calcre	ete (ar = 2).				
	04-06	Т	dark red-brown	sediment, ferruginous		Fe, Fe	AA + FeO	H cements	(ar = 2).							
	06-08	?T	orange	?sediment + ?cement		Fe, Fe	claystone,	strongly c	oloured, ha	rd, porous,	, ferruginous	s (ar = 0).				
	08-10	?ТЛ	orange - pale red-brown	?sediment + duricrust		1555 11111	silcrete, m	oderately o	oloured, si	lica cemer	nted clay &	grit of ?mix	ed provenar	nce.		
	10-12	I	multicoloured	pedolith; mottled		Fe	clay-rich, v	weakly colo	ured with s	strongly de	veloped Fe	Ox + FeOH	mottles			
	12-14	I	maroon & pale grey	pedolith; ferruginous		Fe, Fe	AA but mo	ottles & sta	ining all Fe	Ox and mo	ore strongly	developed.				
	14-16	I	grey & yellow-orange	pedolith			clay-rich, i	moderately	to weakly	coloured.						
	16-18	I	dk brown, dk red, grey, wht	pedolith; ferruginous		Fe, Fe, Fe	incipient ir	onstone, st	rongly colo	oured, varia	bly clayey,	Fe-rich				
	18-20	I	dk brown, dk red, grey, wht	pedolith; ferruginous		Fe, Fe, Fe	AA									
	20-22	I	dk brown, dk red, grey, wht	pedolith; ferruginous		Fe, Fe, Fe	AA									
	22-24	I	AA + pale greys & greens	pedolith; ferruginous - saprolite			transitiona	l interval, A	A grading t	to Fe-poor	material, va	riably mode	erately to w	eakly colo	oured & stair	ied.
	24-26	I	AA + pale greys & greens	pedolith; ferruginous - saprolite			AA									
	26-28	I	y-orange, y-brown, y-grey	upper saprolite		Fe	clay-rich, '	mottled or?	variably st	ained, relic	t foliation.					
	28-30	I	yell-green, pl greens, white	upper saprolite			clay-rich, v	weakly colo	ured with p	pallid clay i	n fractures	& as micro	veins.			
	30-32	I	yellow-brown	upper saprolite			clay-rich, i	moderately	coloured.							
	32-34	I	pale mid-green	upper saprolite			clay-rich, i	massive, pa	istel hues							
	34-36	I	yellow-brown, greenish	lower saprolite			clay-rich,	prominent r	elict schist	ose foliatio	in, highly we	eathered roo	≎k.			
	36-38	I	dk grey , greens, browns &	lower saprolite-saprock		mafic	transition i	interval, aph	anitic met	a-ultramafi	c rock, mod	lerately to p	artially wea	thered, se	erpentinitic.	
	EOH		yellows			EOH										

Example work sheet, regolith logs (Excel file): Mullina Well, aircore drillhole into a weathered ultramafic greenstone profile.

17

A1.3: Chiptray photos to 55 aircore drillholes, Lake Harris, Hopeful Hill & Mullina Well. Lake Harris chiptray profiles, only first 40 m or less displayed. Weathered greenstones occur in drillholes KOK 4-7, 13, 14, 20-25.

A1P1	Drillholes KOK 1, 3, 21, 4, 5, 7 (south – north) chips are moist, cells represent 2m intervals.
A1P2	Drillholes KOK 23, 24, 20, 13, 25, 14 (south – north) chips are moist, cells represent 2m
	intervals.

Continued on next pages.

0-2 0-2 5-3 2-4 2-4 5-16 1 1 4-5 4-6 1-6 19-24 4-5 1.7 1-8 8-10 1-10 2-10 8-40 10-12 14 - 22 bi - 15 10-12 5 12.4 12-4 12-04 10-A 4 14 39-M 14-16 ni As A-15 14 -11 60 n. m ۰. -46 28-20 18.-30 12-54 18.04 11-20 = 14 30-12 14-31 78-11 1 11 8-17 1-4 22-34 23 34 21.14 26-35 24-26 1-21 11-11 24-15 16-18 1.11 78-89 - -23-34 28-34 12.3 2-31 24.25 34-33 - 31 30 -11 30-32 11.9 22-24 31-54 \$1.34 53-54 80.55 34-10 34-3L 291-294 11-3 34.98 8-21 84.-28 ma - lat. 50.40 ----1-64 KOK 1 KOK 3 KOK 4 KOK 21 KOK 5 KOK 7. 2 2-1 4-6 4-6 . 1-10 8-10 8-15 1-17 10.00 0-12 10-12 10-12 The 0 12214 1.41 12-14 12-14 Kan . 14-16 14 -- 1 ain 4-10 14-16 15.4 2 n..... 10-18 84 16-18 14-18 14-1 18-20 13-20 13070 15-20 202 307.33 10.75 70-22 11.19 22-24 22-24 - 12 23-24 n - 3 24126 24-26 14-26 2476 36.38 24-28 20-22 24-28 19-34 28-34 24-40 Jan - Lo 10 -11-30 B= -22 30-32 30-32 80.72 30-32 \$2-m 11-34 32.M 80-74 1 2 -3-34 34-36 De - Da 34-36 59- 25 34-36 41.31 3-30 5-35 34-33 36-35 13-40 28 - 54 1-40 79-84 34.00 **KOK 23 KOK 24 KOK 20 KOK 13 KOK 25** KOK 14

A1P2

A1P1

20

Lake Harris chiptray profiles, only first 40 m or less displayed. Weathered serpentinised high Mgbasalts occur in drillholes KOK 15 – 19.

A1P3	Drillholes KOK 15 – 19 and KIN 37 (south – north) chips are moist, cells represent 2m
	intervals.
A1P4	Drillholes KIN 39, 40, 42 and 43 (south – north) chips are moist, cells represent 2m intervals.

0-1 0-2 0-2 0-2 0-3 2-+ 2-4 2-4 2-4 2-4 4-1 4-6 54-4-6 4-4 9-6 6 1.22 6-8 5-2: 6-8 *a*., 6-3 1 - H 8.10 8-10 1-10 1-10 3 6-3 A ... 15 10-12 10-11 1204 13-36 12-14 172 12 - 15 12-14 14-99 18-18 H-16 14-16 Ser. 4 24 14-13 16-18 14-215 . 16-18 8-20 15 -30 18-24 11.10 14-20 20-24 30-23 \$0.32 £ 31 30 20-22 340 22-24 23-25 23-24 22-24 23-34 24-26 24-26 100 ------24-26 16-38 26-28 24.23 26-36 14-30 100 28-28 24-30 28.30 # - To ----M-3% 8-12 30-57 74-33 12 - 14 E2-34 1:30 3-13 10-34 74 -36 34+86 34-16 34-10 26-38 31 11-10 30.4 80-62 **KOK 15** KOK 16 **KOK17** KOK 18 **KOK 19** KIN 37

A1P3



A1P4

Hopeful Hill chiptray profiles, only first 40 m or less displayed. Weathered greenstones occur in drillholes TAR 7-10, 13 and 15.

A1P5	Drillholes TAR 19, 18, 17, 16, 15, 13 (south – north) chips are moist, cells represent 2m
	intervals.
A1P6	Drillholes TAR 7 – 12 (south – north) chips are moist, cells represent 2m intervals except for
	TAR 11 where cells represent 1 m intervals.





A1P5



A1P6

Mullina Well chiptray profiles, only first 40 m or less displayed. Weathered serpentinised high Mgbasalts occur in drillholes TAR 44 – 42, and weathered greenstones occur in drillholes TAR 55 and 54.

A1P7	Drillholes TAR 72, 71, 49 – 46 (south – north) chips are moist, cells represent 2m intervals.
A1P8	Drillholes TAR 45 – 42, 55 and 54 (south – north) chips are moist, cells represent 2m
	intervals.

Continued on next pages.

0-2 0-2 0-2 1 0-2 4-3 2-4 2-4 the by 12 -----٩ H. 4-6 4-6 4-6 1.24 1 6-0 6-8 Barry 1.-11 . 8-15 慶一 地 1.10 Ŧ 10-12 "" 10-12 10-12 in state 101-111 12-34 12-14 12. 14 12-14 **Fight** 12-14 14-15 Print 1 A-16 Non-R 14-M No. of Street, or other s 1-11 ALC: NO 10-12 14-18 No. of Street, or other 16-20 10 miles 12-20 94. T 100 18-20 20 - 22 20-122 20-32 20.022 20-12 - 44 22-34 22.44 22-34 32-24 24-26 14 -26 24-26 34/14 20-25 ALC: N 26-24 14-22 11.41 26-20 26-20 1.10 11. 18 21-34 R 14-2-28-30 la. 301 52 30-12 10-14 TP 72-34 321-34 3C.8, 12-34 11-24 34 34 W-16 14 - M lia i 14-34 16-38 H-BL 18.4 M St -des C-4 TAR 71 TAR 71 TAR 49 TAR 48 TAR 47 TAR 46



A1P8

A1P7

Mullina Well chiptray profiles, only first 40 m or less displayed. Weathered greenstones occur in drillholes TAR 56 & 57.

A1P9	Drillholes TAR 56 – 61 (south – north) chips are moist, cells represent 2m intervals.
A1P10	Drillholes TAR 62, 74 and 73 (south – north) chips are moist, cells represent 2m intervals.



A1P9



A1P10

A1.4: Regolith logs to 3 cored drillholes, KLHRDD-1 (Lake Harris), THHRDD-1 (Hopeful Hill), and TMWRDD-1 (Mullina Well)



Harris Greenstone Belt Regolith Profile Drillcore Regolith Log

Table A1.1: Lake Harris, Drillhole #: KLHRDD-1

Coords: Zone 53J, 0511863mE, 6566452mN. Attitude: vertical & fully cored, Type: HQ diamond & tungsten bits, Total Depth: 51.25m, Start Date: 17/06/2002, Finish Date: 22/06/2002, On-site Geologist: M.J. Sheard, Geol Surv. Br., MRG. Core Photos: A1P11 – A1P20. Site description: flat, sandy with gravel lag, bare with some grass cover + sparse low shrubs.

Depth In	nterval	Recovery	Regolith	Colour	Description	Comments	Photos
m		good, poor,	Zone	Log			
D	<i>T</i> -	lost [Tray #]					
From	10						
0.00	0.20	lost [1]	soil,		red-brown aeolian sand, fine- to medium grained.		
			transported				
0.20	0.70	moderate [1]	soil + calcrete,		red-brown sand to sandy clay, friable with rubbly to earthy sheet	?compressed &	
			transported		calcrete, white to pale yellow (mostly not recovered).	?top missing	
0.70	0.80	lost [1]	sediment		loose sands.		
0.80	0.95	good [1]	sediment		red-brown clayey sands.		
0.95	1.40	lost [1]	sediment		sands on silicified alluvium.		A1P11
1.40	1.80	moderate [1]	sediment		red-brown alluvium, coarse-grained sand + gravel, silty to	difficult to core	1
					clayey.		
1.80	2.05	lost [1]	sediment		?		
2.05	2.40	good [1]	sediment		red-brown alluvium, sand + silt + gravel + some clay, weakly		
					bound ?cemented.		
2.40	2.80	lost [1]	sediment		sands & gravels.		
2.80	5.10	good, some	sediment		red-brown alluvium, sand + gravel + pebbles (to 50 mm), clasts		
		loss 3.95-4.3			well rounded to semi angular & quartz-rich + some clay & silt		
		[1]			matrix, Loose to weakly bound, becomes paler with depth		
					where it is weakly cemented.		↓
5.10	6.90	good [2]	Ped. duricrust	2	pale brown & cream-brown alluvium, gravel + sand + clay +	May be a much	
			in sediment	mm	rare pebbles (angular, to 15 mm), well cemented by 6.50 m.	older unit.	
6.90	7.40	lost [2]	sediment		? loose sands/gravels		
							A1P12

Cont. overleaf.

				A .		
7.40	10.50	good [2]	transported, alluvial sediment with duricrust		grey – grey-brown alluvium, angular to rounded cobbles & pebbles in sandy to clayey matrix. Some clay & silt in rhythmic cycles of 300-500 mm thick, some very angular clasts >50 mm, variably weakly to moderately cemented (silicified).	A1P12
10.50	13.65	good [3]	short transport distance alluvium colluvium-	* ∕/# #	reworked weathered basement as colluvium + some alluvium, rounded to angular clasts, gleyed, highly mega-mottled clay-rich material, Fe-pisolith fragments with partial cutans, red-brown mottles, bright yellow staining, black flecking/spotting, bright lime-green staining at 12 m.	A1P13
13.65	14.52	good [3]	colluvium	# # # # # # # # #	colluvium, pale greenish grey smectitic & clay-rich. Yellowish & yellow-brown megamottles + irregular fracture staining above 14.3 m. Conspicuous black MnOx dendrites in greenish grey clay 14.2-14.3 m. From 14.4-14.52 m there are occasional angular to subrounded 'rip-up' clasts of clay, slightly darker than matrix, these clasts float in the matrix, they resemble pedolith clay in unit below. Paler grey matrix clay with many sub-mm sized quartz grains and grit (granitic sourced). Locally sourced colluvium, basal angular unconformity ($_{}$) at 45° to core.	
14.52	14.75	good [3]	unconformity on Pedolith (plasmic zone) <i>in situ</i>	///// \\\\ //// \\\\ ////	angular unconformity on relict basal pedolith (plasmic) zone. As per interval below but is brecciated & retains jig-saw-fit of smectitic clay blocks, fracture infill clay is a paler grey-green & is less smectitic. Material is <i>in situ</i> but has been broken up by surficial weathering & pedogenesis. Unconformity only discernible from dry core, not seen on moist core.	
14.75	14.85	good [3]	upper Saprolite		semi-brecciated smectitic clay-rich, pale green to pale bluish but near its top is paler than interval below, no mottling, breccia only shows on dry core, <i>in situ</i> material	
14.85.	15.0	good [3]	upper Saprolite	# # #	semi-brecciated smectitic clay-rich, pale green to pale bluish, yellow-brown Fe-mottling, relict texture as lizardite colour patternation, <i>in situ</i> material.	
15.0	16.5	good [4]	upper Saprolite		stiff bluish – turquoise clay, slicken-sided fractures at $\sim 60^{\circ}$ to core axis, relict white chalcedony veins. Bright yellow-orange streaks & mottle-like staining, some black ?MnOx flecks & markings weathered <i>in situ</i> basement	ATP14
1	1	1			manings, weathered in such ousement	

Cont. overleaf.

16.50	19.20	good [4]	clay Saprolite		light green smectitic clays, plastic to friable, variable yellow	Core very friable	A1P14	
					staining & streaking, slicken-sided fractures at $\sim 60^{\circ}$ to core axis.	& crumbly		
				# # #	Gley colours common + some turquoise, blue and light greens.	between 17.6-		
					17.6-18.9 m core has more blocky yellow staining.	18.9 m.	★	
19.20	21.00	good [5]	Saprolite		AA but more competent, yellow-brown staining on some	Core recovery	A1P15	
		-	_		fractures, relict structure obvious, chalcedonic veining, strong	good but has		
					yellow-brown staining at 21.9-22.3 m, slicken-sided fractures at	friable-crumbly		
					$\sim 30^{\circ}$ to core axis. Multi coloured bright yellow-green in green	intervals		
					& with orange.			
21.00	23.40	lost ~1m [5]	Saprolite		AA but very soft, some core missing due to being washed out by			
					drilling process & watery mud.			
23.40	25.90	good [5]	Saprolite		clay-rich interval, smectitic, green to gley colours + bright	very friable &		
					pistachio green & turquoise to blue patches, yellow-brown	difficult core		
					staining, black MnOx dendrites on fracture surfaces, friable in	recovery	_	
					last metre.		25.5 m	
25.90	26.90	good [6]	Saprolite	<u></u>	dark green to bluish grey, more competent interval, smectitic,			
					well fractured & more so with depth,			
26.90	27.15	some loss [6]	Saprolite		AA			
27.15	27.50	good [6]	Saprolite		dark green relict serpentinite, smectitic, well fractured with	core both firm &	A1P16	
					slicken-sided fractures at $\sim 60^{\circ}$ to core axis. Some brown	soft, bit no longer		
					staining, firm-stiff and soft intervals.	cutting in slippery		
						ground, changed to		
						a face-set d-Bit		
27.50	30.20	some loss [6]	lower		dark green weathered serpentinite, very broken ground, smectific	recovery highly		
			Saprolite –		+ ?talc-rich, competent, yellow FeOH staining & fracture	variable with each		
20.20	20.20	1.50	Saprock		linings, patches of bright green + orange colours.	short run		
30.20	30.30	good [6]	Saprolite		AA but more weathered.			
30.30	31.60	good [7]	Saprolite		weathered serpentinite, pistachio green, antigorite-smectite-talc	Change to toothed	↑	
					rock with reptile skin-like patternations, very greasy feel, yellow	tungsten carbide		
					- orange - brown FeOH staining. Sea green + dark green +	DIT.		
					bright strong yellow also present. Conjugate pairs of slicken-		AIPI7	i i
21.60	20.10		Connoliti		sided fractures common at $\sim 45^{\circ} - \sim 60^{\circ}$ to core axis.		25.0	
31.60	32.10	some loss [7]	Saprolite		AA but softer & more iriable		55.9 m	F
32.10	30.40	good [7]	Sapronte		as per 50.5-51.0 m.	1:66:		-
30.40	57.45	some loss [8]	lower		as per 27.3-30.2 m but nignly tractured	difficult core to	A 1D10	
27.45	27.00		Saprolite			recover	API8	L
37.45	37.80	good [8]	Fe-Saprolite		dark brown interval, variably hard & soft, FeOH + MnOx rich			
37.80	39.40	good [8]	clay Saprolite	# # #	green clays with yellow & brown mottling, very sticky & plastic smectite-rich clay, FeOH & MnOx rich interval 38.5-38.8 m		A1P18	
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39.40	39.55	lost [8]	clay Saprolite		?AA but very soft.	washed out by drilling process		
39.55	41.60	good [8]	Saprolite	# # # # # # # # #	green – dark green & bright green weathered serpentinite, antigorite-smectite-talc, greasy feel, variably fractured, softer clay seams common, yellow & brown FeOH mottle-like blotches or as streaks. Conjugate pairs of slicken-sided fractures common at ~ 45° - ~ 60° to core axis.		•	
41.60	42.60	good [9]	lower Saprolite		blue-green-grey weathered serpentinite, antigorite-smectite-talc, more competent than interval above, has weaker clay seams. Has FeOH stained slicken-sided fractures at $\sim 45^{\circ}$, $\sim 60^{\circ}$ & $\sim 80^{\circ}$ to core axis.			
42.60	44.00	good [9]	lower Saprolite- Saprock		dark green to dark grey partially weathered serpentinite, yellow & brown staining on fractures, some clay seams & patches.		A1P19	
44.00	46.50	good [9]	Saprolite		AA but more variably weathered than interval above.			
46.50	47.20	good [10]	Saprolite- Saprock		AA with cyclic intervals of less weathered rock. Many clay seams & highly fractured ground.			
47.20	48.20	good [10]	Saprolite		green, yellow & brown, more weathered serpentinite than above, some seams of less weathered remain.	Diamond bit no longer cutting.		
48.20	49.15	good [10]	lower Saprolite		bluish grey serpentinite, highly fractured, less weathered than interval above, pistachio green clay lined fractures.		A1P20	
49.15	51.25	good [10]	Saprock - ?Protolith		dark green-grey partly weathered ultramafic serpentinite, some green clay linings to fractures, progressively more competent with depth but while still containing more saprolitic clots/patches. Close to weathering front.	Drilling terminated due to depth limit being exceeded.		
51.25	ЕОН	Σ lost ~4.4m or ~9%		ЕОН				

Regolith Logs to Hopeful Hill and Mullina Well cores follow on the next pages.



Harris Greenstone Belt Regolith Profile Drillcore Regolith Log

Table A1.2: Hopeful Hill, Drillhole #: THHRDD-1

Coords: Zone 53J, 0492082mE, 6575794mN. Attitude: vertical & fully cored, Type: HQ diamond & tungsten bits, Total Depth: 39.25m, Start Date: 23/06/2002, Finish Date: 25/06/2002, On-site Geologist: M.J. Sheard, Geol Surv. Br., MRG. Core Photos: A1P21 – A1P28. Site description: flat, sandy with some gravel lag, some grass + low shrubs + sparse *Casuarina* sp. trees (to ~8 m tall).

Depth	Interval	Recovery	Regolith	Colour Log	Description	Comments	P	hotos
	111	lost [Tray #]	Zone	205				
From	То							
0.00	0.20	most lost <mark>[1]</mark>	soil, aeolian sand, transported		red-brown aeolian sand with some surficial exotic lag (milky quartz, silcrete + calcrete).	poor recovery from this interval		
0.20	0.50	some loss <mark>[1]</mark>	sand + calcrete transported		white calcrete, massive to laminated & variably rubbly, hard to moderately soft. Grab samples for assay collected from mud- pit mullock.	poor core recovery of calcrete		
0.50	0.80	good [1]	sediment, transported		red-brown clayey colluvium-alluvium, angular to subangular clasts 20-30 mm, very compact & hard.	difficult drilling	A1	P21
0.80	1.10	good [1]	sediment, transported	ННН	AA but dark red-brown, resembles a red-brown hardpan with white calcrete wisps & blotches, compact to indurated.	hard drilling		
1.10	5.15	some loss [1]	sediment	H	AA with variable silicification, very gritty & abrasive.	hard drilling		7
5.15	6.15	good [2]	sediment		AA with well rounded quartz clasts to 10 mm.			
6.15	6.25	lost [2]	sediment		alluvium AA, loose.	core retention poor		
6.25	6.65	good [2]	Ped. duricrust in sediment		red-brown alluvium, gravelly, variably cemented.			
6.65	7.75	good [2]	Ped. duricrust in sediment		red-brown alluvium AA but more consistently cemented by silcrete		A1	P22
7.75	8.45	some loss [2]	Ped. duricrust in sediment		AA but more ferruginous in places, variably silicified to silcrete.	broken ground, recovery variable		

Cont. overleaf.

8.45	9.05	good [2]	short transport distance colluvium- alluvium	#	reworked weathered ultramafic basement as colluvium + some alluvium, pale gleys + reds & browns, mega-mottled by FeOx + FeOH, smectitic, stiff & plastic clays, blocky fragmenting + cementing. FeOH staining on joints & fractures. Black Mn and Fe pisolith fragments. Unconformity at base of unit	excellent recovery of unconformity transition		
9.05	9.65	good [2]	Unconformity & Pedolith (plasmic zone, <i>in situ</i>	# # # # ## # ##	relict pedolith, jig-saw-fit breccia, pale greenish to bright green clay-rich fragments + brownish to grey-brown clay fracture infill illuviated from above, erosional top, strong brown-red mottles & stains, <i>in situ</i> weathered mafic, no relict foliation, gritty & smectitic with incipient silicification.		A1	.P22
9.65	12.25	good [2 & 3]	clay Saprolite		as above interval, bright pistachio green clays at 9.95-10.4 m, brecciation extends to 12.25 m but sediment & clay infill of fractures ceases by 11.8 m. Complex MnOx within FeOx mottles at 11.35 to 11.75 m, fractured in conjugate sets at ~45° & ~60° to core axis below 12 m.			9.85 m
12.25	15.20	good [3 & 4]	upper Saprolite	Mn Mn <u># # #</u>	gleys + various strong green colours, no mottling, some dark green relict fragments of serpentinite, smectitic clays + talc, greasy feel, core is fragile to moderately competent, very gritty, commonly fractured in conjugate slicken-sided sets at ~ 45° & ~ 60° to core axis. MnOx flecks & staining 13.15- 13.55 m, FeOx staining & blotches near base.			14.85 m
15.20	15.95	good [4]	Fe-rich Saprolith		Fe-clay-rich interval, dark brown, cemented, has many bright turquoise coloured chalcedony veinlets, very striking interval,	matrix diamond bit changed to face-set diamond at 15.75 m	A	1P24
15.95	18.75	good [4]	upper Saprolite		greens, white & brown with bright pistachio green ?gaspeite from 16.5 m, + reddish & brown blotches and stains. Complex fracture alteration-colour patterns.	friable core		
18.75	19.35	good [4]	Saprolite		weathered serpentinite, dark grey-green & dark brown, highly fractured, smectitic & talc-rich, greasy feel.			
19.35	23.00	some loss [4 & 5]	Saprolite		smectitic clays, moderately soft, plastic & sticky, highly fractured, greens & browns, chalcedony veins, bright pistachio green bands, black MnOx staining, crumbly below 21.5 m.	Bit changed to W-carbide toothed bit at 21.75 m		20.35 m
23.00	24.15	good [5]	lower Saprolite		partially weathered serpentinite, dark grey to black to dark green, fractures at $\sim 60^{\circ}$ to core axis. semi friable. White chalcedony veins.		A	1P25

Cont. overleaf.

24.15	25.00	good [5]	lower Saprolite- ?Saprock		variably weathered interval with enclaves of less weathered altered serpentinite, dark grey to black, + sticky plastic	hard to drill through broken ground	A	1P25
					smectite clays in green-grey, highly fissile. Yellow & brown alteration.			
25.00	26.50	good [5 & 6]	Saprolite		more weathered interval, clay-rich, smectitic, pistachio green + pale & dark green, some FeOH staining.			25.25
26.50	27.95	good [6]	lower Saprolite		less weathered interval, serpentinite, dark green to dark grey, very fissile and fragile core but hard drilling, variably weathered with more and less altered enclaves – much of the core looks like gravel, FeOH staining & coatings.		A1]	P26
27.95	30.55	good [6 & 7]	lower Saprolite- Saprock		clay-rich matrix with relict less altered serpentinite core stones, bright to dark greens & greys, very sticky & friable. More gleyed below 29.0 m. Slicken-sided fractures at 45° - 60° to core axis. More competent below 30 m.	core difficult to extract from splits	3	0.09 m
30.55	34.50	some loss [7]	clay Saprolite & Saprock		intergrades of weathered to less weathered serpentinite, very fissile interval, fractures at 75-80° to core axis. Relict chalcedony veining at 32.5 m,	core difficult to recover.	A	1P27
34.50	37.45	some loss [7 & 8]	Saprock - ?Protolith		AA but more competent, dark green-grey, alteration decreases with depth to something approaching protolith. Fractured serpentinite with some weathering along fractures (at $\sim 60^{\circ}$ to subvertical to core axis). Some smectite + other alteration minerals.	moderately hard	A	4.93 m 1 P28
37.45	39.25	good [8]	Saprolite- Saprock		cyclic saprock-saprolite to less altered fragments, near weathering front, dark green-grey + paler greens & some browns. Protolith enclaves throughout interval	variably hard		
39.25	ЕОН	Σ lost ~3.3m or ~9%		ЕОН				

Regolith Log to Mullina Well cores follow on the next pages.



Harris Greenstone Belt Regolith Profile Drillcore Regolith Log

Table A1.3: Mullina Well, Drillhole #: TMWRDD-1

Coords: Zone 53J, 0461096mE, 6592412mN. Attitude: vertical & fully cored, Type: HQ diamond & tungsten bits, Total Depth: 40.00m, Start Date: 18/07/2002, Finish Date: 19/07/2002, Logging Geologist: M.J. Sheard, Geol Surv. Br., MRG, Site Geologist: M. Davies, GSB-MRG. Core photos; A1P29 – A1P35 Site description: flat & sandy, some grass + low shrubs + sparse mixed species trees (to ~5 m tall).

Depth	Depth Interval Recovery Regolith m good, poor, Zone		Regolith Zone	Colo Log	our	Description	Comments	Pho	otos
From	То	lost [Tray #]							
0.00	0.30	most lost [1]	soil, aeolian sand transported			red-brown to dark red-brown loose aeolian sand.	mostly washed out at spud-in.		
0.30	0.80	some loss [1]	sand + calcrete, transported			as above but slightly silty, calcrete as dispersed earthy form, strong acid reaction.			
0.80	2.00	some loss [1]	Sediment			red-brown clayey sand with wispy earthy calcrete, strong acid reaction, friable but relatively compact.	some core loss & some compression.		
2.00	6.30	some loss [1]	Sediment			red-brown clayey alluvium, gritty to sandy and calcareous throughout, strong acid reaction. Possibly a red-brown hardpan, is variably cemented with carbonate & hyaline silica , very gravelly between 4.60-4.80 m. No carbonate below 6.00 m.	core recovery between ~50-80%.	A1P	29
6.30	6.60	good [1]	Sediment			dark red-brown clays & clayey sands, alluvial-colluvial.			
6.60	7.15	good + some loss [1]	Sediment			dark red-brown to red-brown alluvium-colluvium, clayey sands to grits, gravelly in places (mostly subangular) & clasts are polymict to quartz dominated.	Tray 1 core loss = ~ 2.15 m.		
7.15	7.50	lost [2]	Sediment			presumed to be as above.			
7.50	7.90	good [2]	Sediment			dark red-brown to red-brown alluvium-colluvium, clayey sands to grits, gravelly in places (mostly subangular) & clasts are polymict to quartz dominated.			
7.90	8.20	good [2]	Duricrust in sediment			dark red-brown clayey sand to clayey gravel, polymict subrounded clasts to ~5 mm, variably cemented by ?silica + carbonate, moderate acid reaction, mostly colluvium, matrix to clast supported interval. Silica cement		A1P	30

Cont. overleaf.

8.20	9.90	good [2]	alluvium- colluvium				red-brown clay-rich interval with silty sub-intervals + some grit, ferruginous, possibly derived from intensely weathered fine-grained rock, unit has strong colluvial character, ?palaeosol,.			
9.90	10.47	good [2]	Colluvium			×#	as above but well lithified—cemented by silica, non calcareous, grades to a vaguely mottled equivalent & has FeOH + MnOx staining on fractures & relict clay block surfaces (?peds), has relict clay corestones, clay very sticky & plastic (smectitic &/or illitic).			
10.47	11.47	good [2]	Colluvium & sediment			 ¤ ¤	pale brown silcrete containing brown silicified mottles (3-5 mm) mostly a fine-grained rock. Interval is variably cemented from quite hard to crumbly &/or moderately competent. Unit resembles a crude colluvium in places (small subangular blocks floating within a silica cement.		A1P	30 cont.
11.47	11.80	lost [2]	Sediment				??			
11.80	12.42	good [2]	Sediment	i	# # # # # #	‡ ‡ ‡	brown to reddish clay-rich interval, fine-grained silt & sand grains, quite ferruginous with dark reds to maroon staining + black MnOx staining on fractures.			
12.42	12.60	good [2]	Sediment	# #	# # · # # ·	# #	gley coloured and pallid clay-rich + quartz grit interval with mega mottles of yellow and red FeOx or FeOH.			↓ I
12.60	17.35	fair-good [3]	Sediment	# Fe # Fe #	#	# /In # /In # /In #	clays to claystones, mostly structureless unbedded interval, pale grey to pale grey-green (gley colours) variably red & yellow mega- mottled, smectitic, stiff & plastic when moulded but core is mostly crumbly around the mottles, these contain near black Fe-pisoliths (2- 3 mm), some MnOx staining observed. Becomes redder with depth as yellow colours diminish. Unit derived mostly from same terrain as debris flow below.		A1P	231
17.35	22.70	good, but 18.9-19.2 m some loss [3 & 4]	Debris flow colluvium				Debris flow colluvium (landslide or avalanche deposit). Very mixed up interval. Unsorted jumble of clay-rich saprolitic blocks & fragments (<10 to >500 mm, similar to materials in interval 23- 25 m), angular to subrounded and either clast or matrix supported. Matrix is a structureless colluvial clay with polymict rip-up clasts, quartz sand & other lithics. All clasts show some degree of transportation rounding. Interval equates to a mass-wasting avalanche, deposited as a debris flow. Overall clast texture and fabric is consistent with a lahar but here it is not volcanically sourced.	18.9-19.2 m contains polymer mud-jelly chunks.	A1P	-17.5 m

22.70	22.90	good [4]	Unconformity	# Fe #	remnant pedolith, red-brown, competent FeOH cemented, contains		A1	P32
		200 0 [1]	& Pedolith (Plasmic zone)	# Fe # # Fe # # Fe #	pedogenic structures: irregular parallel banding + incipient Fe- nodule development + brecciation with re-cementation. Clear-cut eroded top surface at $\sim 15^{\circ}$ to core axis.			cont.
22.90	23.30	good [4]	Pedolith (Plasmic zone) <i>in situ</i>	# # # #	pedogenic breccia of jig-saw-fit clay-rich blocks to 100 mm, pale yellow + pale yellow-grey + very pale browns, fracture infill is amorphous grey clay but there are no obvious qtz grit or sand clasts.			
23.30	25.20	good [4 & 5]	upper Saprolite	# # # # # #	near white to pale grey smectitic clay, moderately stiff, plastic, relict chalcedony veins below 23.0 m, occasional FeOx megamottles in red & red-brown to 60 mm & near base are ~150 mm. Interval has a subtle mottle-like patternation in a darker grey (possible lizardite texture ghosts). Contains clay with greasy feel (talc). No obvious quartz or sedimentary clastic infill to fractures.			23.5 m
25.20	25.35	good [5]	upper Saprolite	# # #	clay-rich, smectitic greenish yellow to brown, sticky & plastic, strongly Fe-stained brown & reddish, relict lizardite patternation.		A1	P33
25.35	27.85	lost [5]	Saprolith & ? fracture cavity		no recovery, very low strength interval, or possibly an open fracture cavity partially infilled with wet smectitic clays at or near their liquid limit (<i>i.e.</i> >130% moisture content).	drill rods dropped through this 2.5 m interval under their own weight, nothing retained in core barrel.		
27.85	28.05	good [5]	upper Saprolite	Fe Fe Fe	greens to browns & yellow-browns, smectitic, sticky & plastic, stiff, has lizardite patternation, highly fractured, ferruginous.			
28.05	28.18	good [5]	Saprolite		pallid smectite, blotchy grey & white with some yellow mega- mottles.			
28.28	28.95	good [5]	Saprolite	Fe Fe # # # Fe Fe # # #	reddish + browns + pale green + lime green + pistachio green, smectite & relict serpentinite, fractured interval, highly ferruginised, FeOx + FeOH mega-mottles & along fractures & some have complex small scale oxide box-work structures.	Original errors in depths from 28.95 to 33.65 m (trays & markers) corrected,		
28.95	30.12	good [5]	Saprolite		pale bluish green to grey to cream with bright yellow & brown staining & fracture alteration, smectitic relict serpentinite, more competent than above, firm to stiff, complexly fractured + regularly spaced conjugate slicken-sided sets at steep angles to the core axis.			
30.12	33.65	good [5 & 6]	Saprolite	 Fe Fe 	pale green + pale pistachio green to mid-green + yellow & yellow- brown, relict serpentinite + smectites, soft & plastic to firm & moderately hard, fracture staining & blotches in yellow & brown.	,	A	30.92 m 1 P34

33.65	34.10	good	[6]	Saprolite		as above, moderately firm to soft, soapy-greasy appearance, brightly coloured.			
34.10	35.90	good	[6]	Saprolite	Fe Fe Mn Mn Mn Mn	pale green smectitic clay with some yellow FeOH staining & blotching at 34.25 m, conspicuous black ?MnOx staining & fracture coatings between $34.5-34.8 + 35.1-35.3$ m, conjugate sets of slicken-sided fractures at ~ 45° -~ 60° to core axis.			
35.90	36.05	most lost	t [6]	Saprolite		green smectitic relict serpentinite.	small blocks in fine cuttings & polymud		
36.05	36.15	good	[6]	Saprolite	 Fe Fe 	mid-green relict serpentinite, crumbly to moderately hard, has brown to yellow-brown fracture staining & infill + mega-mottles & blotches.		A1P	34
36.15	36.35	good	[6]	Saprolite	Fe # # Fe	dark brown + dark yellow-brown to near black FeOH + FeOx + ?MnOx enriched interval with small oxide box-work structures, clayey.			
36.35	36.70	good	[7]	vein	quartz	white to translucent milky quartz vein, massive to vuggy with bright yellow-orange FeOH staining along fractures & partial cavity infill.			
37.70	36.80	good	[7]	Saprolite	t Fe	brown to dark brown Fe-stained clay interval.			
36.80	37.75	good	[7]	Saprolite		pale green smectite + relict serpentinite, white chalcedony veining + relict lizard skin patternation, relict foliation, some lime to pistachio green colours, soapy-greasy appearance, abundant fractures – these are weakly FeOH stained.			
37.75	37.90	fair-poor	[7]	Saprolite	‡ Fe ‡ Fe	dark yellow-brown clay-rich interval, FeOH stained & enriched, highly fractured.	not well cored.		
37.90	38.50	good	[7]	lower Saprolite		dark + mid + pale greens + yellow & brown, weathered serpentinite with various clays, micro- to meso-fractured & many are FeOH stained, more competent interval – firmer to stiffer than above. Transition zone to fresher rock below.		A1P	35
38.50	39.12	good	[7]	Saprock		dark green to mid greyish green + brown & orange, partially weathered serpentinite, hard & brittle, fractured with associated FeOH staining, contains enclaves of more weathered material, Base of interval is the Weathering Front, sharp change to fresh rock below.			
39.12	40.00	good	[7]	Protolith		dark green to dark grey-green serpentinite cross cut by white quartz & chalcedony veins, regular fractures at 45° to $\sim 60^{\circ}$ to core axis, foliation at $\sim 75^{\circ}$ to core axis.			
40.00	EOH	Σ lost ~5.0 or ~14%	6m		ЕОН				

A1.5: Core tray photos for cored drillholes: KLHRDD-1, THHRDD-1, & TMWRDD-1

Lake Harris HQ drill core, trays 1 to 4 of 10.

A1P11	Tray 1: 0.2-5.1 m, transported cover; orange aeolian sand on red-brown alluvium to
	colluvium, clays, sands and gravels to 5.0 m.
A1P12	Tray 2: 5.1-10.5m, transported cover; red-brown fluvial sands, gravels and cobbles. Note
	the large colour zoned subrounded silcrete clasts between 7.5-10.5 m.
A1P13	Tray 3: 10.5-15.0m. Transported cover to 14.52 m (unconformity). Fluvial-colluvial
	material, pale grey to yellow and variably Fe-mottled. Contains reworked brown
	Fe-pisoliths (2-5 mm) with granite-derived quartz grains and highly plastic clays
	derived from weathered greenstones. Colluvium 13.65-14.52 m, reworked
	weathered greenstone + granitic detritus, yellow-grey to pale greenish grey, rip-up
	clasts of pedolith near base. 14.52-14.75 m is Pedolith (plasmic zone) in situ
	weathered greenstone, clay rich, pale colours, variably Fe-stained, top missing,
	pedogenic brecciation. Upper saprolite below 14.75 m, clay-rich and generally
	pallid greens and bluish greys, relict lizardite patternation.
A1P14	Tray 4: 15.0-19.2m, <i>in situ</i> weathered greenstone, upper saprolite, clay-rich, pallid to a
	variety of green colours, Fe- and Mn-stained, distinct greasy texture where talc-like
	minerals abound, relict lizardite patternation.



A1P14

Lake Harris HQ drill core, trays 5 to 8 of 10.

A1P15	Tray 5: 19.2-25.9 m: <i>in situ</i> weathered greenstone, saprolite, clay-rich, a variety of greens
	with reddish mega-mottling, Fe- and Mn-stained, distinct greasy texture where talc-
	like minerals abound.
A1P16	Tray 6: 25.9-30.2 m: in situ weathered greenstone, upper saprolite, clay-rich, greens to
	bluish and grey, yellow-brown Fe-staining and black Mn-staining, distinct greasy
	texture where talc-like minerals abound.
A1P17	Tray 7: 30.2-35.9 m: in situ weathered greenstone, upper saprolite, clay-rich with relict
	serpentinite, bluish and grey with minor greens, brown Fe-staining, obvious white
	chalcedony veining 35.0-35.9 m.
A1P18	Tray 8: 35.9-41.6 m: <i>in situ</i> weathered greenstone, upper saprolite, clay-rich with relict
	serpentinite, greens to bluish and grey, yellow and brown Fe-staining, highly
	fractured and variably altered.







Lake Harris drill core, trays 9 and 10 of 10.

A1P19	Tray 9: 41.6-46.5 m, <i>in situ</i> weathered greenstone, lower saprolite, clays with relict
	serpentinite, bluish and grey, brown Fe-staining, highly fractured and variably
	altered.
A1P20	Tray 10: 46.5-51.25 m, <i>in situ</i> partly weathered greenstone, lower saprolite continued as
	above, to 49.15 m. Grades to bluish grey serpentinite with brown Fe-staining
	below 49.15 m, well fractured and has brown to bright yellow-green clays within
	fractures.

Hopeful Hill HQ drill core, trays 1 to 4 of 8.

A1P21	Tray 1: 0.0-5.15 m: transported cover, orange aeolian sand on red-brown alluvial to
	colluvial clay and sand or mixtures of these with some gravel, fluvial sediments
	below 5 m.
A1P22	Tray 2: 5.15-9.85m: transported cover, red-brown fluvial sediments to 8.45 m; dark red-
	brown colluvial materials to 9.05 (unconformity) and below is a more variably
	coloured in situ pedolith plasmic zone in highly weathered greenstone, displays
	pedogenic brecciation and eroded top.
A1P23	Tray 3: 9.85-14.85m: <i>in situ</i> red mega-mottled greenish highly weathered greenstone
	plasmic zone to 9.65 m clay rich minerals. Upper saprolite, green to bluish and
	variably Fe-mega-mottled, displays differential weathering pseudo brecciation
	fabric in 2 or more greens. Dominantly clay-rich with relict bluish green
	serpentinite intervals.
A1P24	Tray 4: 14.85-20.35m: <i>in situ</i> weathered greenstone, variably mottled, green and bluish
	upper saprolite displaying weathering differential pseudo brecciation and bright
	yellow-green clay colours.



Hopeful Hill HQ drill core, trays 5 to 8 of 8.

A1P25	Tray 5: 20.35-25.25 m: in situ weathered greenstone, variably mottled, green and bluish
	upper saprolite to 23 m displaying differential weathering with a pallid clay interval
	between 21.3-21.5 m. Lower saprolite below 23 m, multi coloured with yellow-
	brown Fe staining.
A1P26	Tray 6: 25.25-30.07 m: in situ weathered greenstone, lower saprolite, clay-rich with relict
	serpentinite, multi coloured with yellow-brown to brown Fe-staining and variable
	weathering development.
A1P27	Tray 7: 30.07-34.93 m: in situ weathered greenstone, lower saprolite, clay-rich with relict
	serpentinite, multi coloured with yellow-brown to brown Fe-staining and variable
	weathering development to 34.5 m. Saprock below, greyish green, more competent,
	dark brown Fe-stained fractures, partially weathered serpentinite + clay.
A1P28	Tray 8: 34.93-39.25 m: <i>in situ</i> partly weathered greenstone, saprock to protolith, greenish
	grey to medium or dark grey serpentinite with clayey weathering products in
	fractures and altered intervals, variably competent.



A1P28

Mullina Well HQ drill core, trays 1 to 4 of 7.

	Note: all core runs from right to left (reverse of standard layout).
A1P29	Tray 1: 0.0-7.15 m: transported cover, red-brown aeolian sand on red-brown clays, sands
	and minor gravel.
A1P30	Tray 2: 7.15-12.6m: transported cover, red-brown fluvial clay and sandy clay to 11.47 m,
	plus brown colluvial to fluvial sediment >11.47 m, clayey sand and sandy clay.
A1P31	Tray 3: 12.6-17.5m: transported clays, pale yellow and greenish, clay-rich overbank deposit
	to 17.35 m, smectitic, structureless & unbedded, red mega mottled. Probably
	derives mostly from weathered greenstone terrain. >17.35 m debris flow deposit,
	jumbled mix of saprolitic clasts in clast to matrix supported unit (see description
	below).
A1P32	Tray 4: 17.5-23.5m. Debris flow deposit to 22.7, jumbled mix of saprolitic clasts (<10-
	>500 mm) in clast to matrix supported unit, inter-clast infill is clayey but less
	smectitic + grains of granitic quartz, feldspar & lithics, whole unit is bleached &
	mottled. (Unconformity at 22.7 m). 22.7-23.3 m in-situ weathered greenstone, a
	truncated pedolith plasmic zone, 22.7-22.9 is a remnant Fe-rich pedogenic
	?capping, pedogenic brecciation, dark red megamottled and stained pale clay-rich
	minerals.





A1P35

Mullina Well HQ drill core, trays 5 to 7 of 7.

	Note: all core runs from right to left (reverse of standard layout).
A1P33	Tray 5: 23.5-30.92 m: <i>in situ</i> weathered greenstone, upper saprolite, continued. Pallid clays
	and megamottling cease by 29.7 m, below that level are greenish clay-rich minerals
	with yellowish staining. No core recovery between 25.35 to 27.85 m (?open
	fissure).
A1P34	Tray 6: 30.92-36.35 m: <i>in situ</i> weathered greenstone upper saprolite, continued, dominantly
	greenish clays with yellowish or pale brownish staining and black Mn flecking to
	staining or dendritic growths (especially between 33.5-34.8 m)
A1P35	Tray 7: 36.35-40.0 m: <i>in situ</i> weathered greenstone upper saprolite to 37.9 m, lower
	saprolite 37.9-38.5 m, darker green to greenish grey saprock between 38.5-39.12 m
	with relict serpentinite evident; and foliated dark grey to near black serpentinitic
	greenstone protolith from 39.12 to end of hole.

Sec.

APPENDIX 2

Assay data, down-hole plots & surface geochemistry plots

A2.0 Background Explanations

	Table A2.1:	Soil and creek sediments
	Table A2.2:	Geochemistry of drill core materials
	Table A2.3:	Geochemistry and XRD mineralogy of described materials
	Table A2.4:	Geochemistry of aircore drilling
	Table A2.5:	Statistics of soil and stream sediment geochemistry
	Table A2.6:	Silcrete and granitic saprolite geochemistry
	Table A2.7:	Calcretes from Glenloth gold mine
	Table A2.8:	Magnetic granules in lag
	Table A2.9:	Saprock and saprolites from ultramafic rocks
	Table A2.10:	Magnetic & non-magnetic heavy mineral concentrates - R406800
A2	.1 Aircore Dril	ling Assay Logs
	A2.11 Lake H	Iarris
	A2.12 Hopefu	al Hill
	A2.13 Mullin	a Well

- A2.2 Diamond Drillcore Assay Logs, Lake Harris, Hopeful Hill & Mullina Well
- A2.3 Soil Geochemical Plots, Lake Harris area
- A2.4 Geochemical Archive (4 ASCI Dat files, refer to CD-ROM, Appendix 7)

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A2.0 Background Explanations

TABLE A2.1: Soil and Creek sediments (refer also, Appendix 7 CD).

This table shows the geochemistry of soil (three traverses separated by lines on the table) and creek bed samples. Soil samples were taken from both just under the surface and at a slight depth (about 200 mm). Samples were analysed by ICP-OES and ICP-MS by Ultra Trace in Perth. The more readily soluble elements were determined after digestion with HF/HClO₄/HNO₃/HCl and the more refractory elements after fusion with sodium peroxide. Gold, Ag and Cu were determined after cyanide leach. The data are also available in digital form on the CD as Table_A2_1.xls.

TABLE A2.2: Geochemistry of drill core materials.

This table shows the geochemistry of spot samples taken from diamond drilling to investigate the regolith stratigraphy. They represent only about 100 mm of half core each. The drilling was from Lake Harris (KLHRDD1), Hopeful Hill (THHRDD1) and Mullina Well (TMWRDD1). Samples were analysed by XRF fused disc and ICP-MS after digestion with HF/HClO4/HNO3/HCl by Ultra Trace in Perth. The data are also available in digital form on the CD as Table_A2_2.xls.

TABLE A2.3: Geochemistry and XRD mineralogy of described materials.

Surficial materials collected in the field for description were analysed by XRF fused disc and ICP-MS after digestion with HF/HClO4/HNO3/HCl by Ultra Trace in Perth. They were also mineralogically analysed by XRD and the relative mineralogical abundances recorded. The latter are semi-quantitative estimates only as the diffractions are influenced by mass absorption of materials with varied Fe content, by the crystallinity of the materials and by peak overlaps. The data are also available in digital form on the CD as Table_A2_3.xls.

TABLE A2.4: Geochemistry of aircore drilling

The geochemistry of spot samples taken from aircore drilling is presented from Hopeful Hill (Area HH), Lake Harris (Area LH) and Mullina Well (Area MW) over five pages. Samples were analysed by ICP-OES and ICP-MS by Ultra Trace in Perth. The more readily soluble elements were determined after digestion with HF/HCIO4/HNO3/HCl and the more refractory elements after fusion with sodium peroxide. Gold, Ag and Cu were determined after cyanide leach. The data are also available in digital form on the CD as Table_A2_4.xls.

TABLE A2.5: Statistics of soil and stream sediment geochemistry

Statistics including Minimum, maximum, mean and the maximum/mean ratio are given for the broad suite of elements given in Table A2.1. Elements that show useful anomalies are given in bold.

TABLE A2.6: Silcrete and granitic saprolite geochemistry

This is an extract from Table A2.3, allowing the geochemistry of silcretes and silcrete lag to be compared with the geochemistry of the regolith materials from which they were derived (granitic saprolites). The data are also available in digital form on the CD as Table_A2_6.xls.

TABLE A2.7: Calcretes from Glenloth gold mine

Two samples collected from calcrete exposed by pit openings at the Glenloth gold mine contain significant Au. They were from outside the mapped area. The data are also available in digital form on the CD as Table_A2_7.xls. This is an extract from Table A2.3.

TABLE A2.8: Magnetic granules in lag

Magnetic granules from a lag, largely of silcrete on thin colluvium within a small area close to an erosional window of ultramafic rocks, show a clear ultramafic signature. The data are also available in digital form on the CD as Table_A2_8.xls.

TABLE A2.9: Saprock and saprolites from ultramafic rocks

This is an extract from Table A2.3 showing saprock and saprolites of ferruginous materials developed on ultramafic rocks. The data are also available in digital form on the CD as Table_A2_9.xls.

TABLE A2.10: Magnetic and non-magnetic heavy mineral concentrates - R406800

A heavy mineral fraction (>SG 2.85) was separated from the 1000-2000 μ m size fraction from creek bed sample R406800. This was separated into magnetic and non-magnetic sub-fractions that are geochemically compared. The data are also available in digital form on the CD as Table_A2_10.xls.

A2.1 Aircore drilling logs with geochemistry

This drilling has been presented as simplified graphical logs with the geochemistry of the major and lithologically important elements (Si, Al, Fe, Mg, Ca, Ti, Zr, Ni, Mn, Co, K, Rb, Ba), economically important elements (W, Cu, Zn, Pb, Mo, Au, Ag, Sn), important pathfinder elements (As, Sb, Bi), rare earth elements (La, Dy) and the Ti/Zr ratio. These are available as .pdf files on the CD. Table A2.4 above refers. Three examples from each study area are printed herein.

- A2.11 Lake Harris
- A2.12 Hopeful Hill
- A2.13 Mullina Well

A2.2 Diamond drillcore logs with geochemistry (Lake Harris, Hopeful Hill, Mullina Well).

This drilling has been presented as simplified graphical logs with the geochemistry of spot samples. The major and lithologically important elements (Si, Al, Fe, Mg, Ca, Sr, Na, Ti, Zr, Cr, Ni, Mn, V, P, Cl, Co, K, Rb, Ba), economically important elements (W, Cu, Zn, Mo, Sn), important pathfinder elements (As, S, Sb, Bi, Tl,) and the Ti/Zr ratio. Table A2.2 above refers. These are available as .pdf files on the CD Appendix 7 and as Figures 18-20 in the body of Volume 1.

A2.3 Soil geochemistry plots, Lake Harris

These are dot plots of the geochemistry of the soil and creek bed samples given in Table A2.1 above. The abundances of each of the 16 selected elements has been divided into four ranges by consulting a normal probability plot. Actual abundances are given beside each dot. This plot has been overlain on a basic plan showing major tracks, the playas and major regolith regimes to aid interpretation. Each plot is paired: near surface samples on the left and deeper samples (about 200 mm) on the right. Three examples are provided overleaf and a further 2 comprise Figures 32 & 33 in Volume 1.

A2.4 Geochemical archive (4 ASCII ".dat" files, refer to CD, Appendix 7)

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											TA	BL	ΕA	2.1	- SC	ЭIL	AN	DC	RE	EK S	SED	IME	NTS														
	Digest	Fusion	4-acid	Fusion	Fusion	4-acid	4-acid Fusion 4-aci	id CN	4-acid (CN 4	-acid 4-a	acid 4-aci	id Fusion	4-acid	Fusion 4	Hacid I	CN Fus	sion Fusio	on Fusion	n Fusion Fu	ision Fusio P-MS ICP-N	on Fusion	n 4-acid 4-ac	id Fusio	n 4-acid S ICP-OES	4-acid Fu	ision 4-ac P-MS ICP-N	id 4-acid	Fusion F	usion Fusic P-MS ICP-M	on 4-acid	4-acid	Fusion 4-a	cid 4-acid	4-acid	Fusion 4	-acid Fusion P-DES ICP-MS
Sample Numbers Coordinates Depth [Depth DetnLimit	0.0	0.01	0.01	0.01	0.01	0.01 0.01 0.5	i 5	0.5 (0.2	1 0	1 0.5	0.5	2	50	1	0.1 0	1.5 0.5	0.2	2 1	0.2 0.5	5 0.2	1 0.2	2 0.5	2	1	0.2 0.1	0.2	0.5	10 0.2	0.2	0.1	0.2 0.0	05 2	0.5	0.5	1 10
PIRSA Random USIRU Lasting Nothing from LabSegNo LibNo m m mm	nm Material	5i %	AI %	Fe %	Mg %	La %	K II Ag % % ppm	n ppb	As /	eu pb	ba t opm p	n Ld pm ppm	n ppm	Lo ppm	Dr ppm	ppm p	Du D ppm pp	ју Er pm ppm	n ppm	ppm p	Ho La Ipm ppn	a Lu m ppm	Mn Mi ppm ppi	n ppm	ppm	Pb ppm p	Pr Rb Ipm ppn	n ppm	Sm ppm	Sn Ib ppm ppm	n ppm	ppm	ppm pp	m ppm	ppm	YD ppm j	∠n ∠r ppm ppm
R406713 L08-02545 08-02458 511999 6570425 20 R406714 L08-02544 08-02459 511945 6569953 20	150 soil 150 soil	41.9	2.70	1.37	0.19	0.09	1.14 0.18 <0.5 1.31 0.24 <0.5	5 <5 5 5	2.0 <	0.2	402 0 412 0	1 <0.5	5 26.0 5 39.0	2	150 50	9	1.1 2 2.0 2	1.0 1.0	0.6	2 1	0.4 14.5 0.6 20.0	5 <0.2 0 0.2	149 0.0 319 0.0	5 16.0 2 19.5	16	10	1.4 44.2 5.4 53.4	2 <0.2	3.0	<10 0.4	<0.2	0.3	<0.2 0.5 0.2 0.5	55 28 70 38	<0.5	1.0	29 200 49 230
R406715 L08-02473 08-02460 511905 6569590 20	150 soil	37.3	3.95	2.01	0.36	0.27	1.29 0.21 <0.5	5 <5	2.5).4	414 0	.1 <0.5	5 32.5	8	200	17	2.8 2	.5 1.5	i 0.8	2 1	0.4 17.0	0 0.2	203 0.1	3 16.5	48	13 -	4.8 53.3	3 0.2	3.0	<10 0.4	<0.2	0.3	<0.2 0.0	5 36	1.0	1.5	39 220
R406716 L08-02496 08-02461 511875 6569156 20 R406717 L08-02531 08-02462 511854 6568757 20	150 soil 150 soil	42.1	2.56	1.11	0.13	0.11	1.11 0.15 <0.5 1.07 0.16 <0.5	5 <5 5 <5	0.5 (1.0 <	0.2 0.2	450 <0 452 <0	0.1 <0.5 0.1 <0.5	5 23.0 5 29.0	4	50 50	6 <	1.1 1 <0.1 2	.5 1.0 1.0 1.0	0.4	2 1	0.4 13.0 0.4 15.5	0 <0.2 5 <0.2	132 0.2	2 14.0 2 17.5	6	11 · ·	3.6 44.4 4.6 40.4	\$ <0.2 \$ <0.2	2.5	<10 0.4	<0.2	0.3	<0.2 0.9	50 24 50 22	< 0.5	1.0	27 150 20 220
R406718 L08-02478 08-02463 511854 6568757 200 B406719 L08-02532 08-02464 511827 6568334 20	250 Bca horizon	38.8	4.20	2.02	0.38	0.10	1.38 0.27 <0.5	5 <5 5 <5	2.5 (0.6	402 0 375 0	.2 <0.5	5 40.5 5 27.5	6	50 50	13 : 5 <	2.6 2	.5 1.5	5 0.8 0 0 6	4 1	0.6 20.5 0.4 15.0	5 0.4 0 <0.2	247 0.4	19.5 16.0	22	13 !	5.4 54.6 1.4 36.6	6 0.2 6 (0.2	3.5	<10 0.4	<0.2	0.3	0.2 1.0	05 44 50 22	1.0	1.5	42 200 28 270
R406720 L08-02520 08-02465 511827 6568334 200	250 Bca horizon	39.8	3.23	1.72	0.21	0.10	1.11 0.24 <0.5	5 <5	1.5 <	0.2	363 0	.1 <0.5	5 34.5	4	200	12	2.8 2	.5 1.5	5 0.8	4 1	0.4 18.0	0 0.4	154 0.0	3 19.0	12	12	5.2 44.8	3 0.2	3.5	<10 0.4	<0.2	0.3	0.2 0.3	70 38	0.5	1.5	31 280
R406721 L08-02466 08-02466 511815 6568000 20 R406722 L08-02513 08-02467 511815 6568000 250	150 soil 300 calcrete	39.5	4.31	2.10	0.51	0.59	1.33 0.23 <0.5 0.92 0.15 <0.5	5 <5 5 <5	2.0 (5.0 2).2 2.6 1	597 0 610 <0	12 <0.5 0.1 <0.5	5 30.0 5 25.0	6	50 50	11 13 1	1.8 2 2.4 4	1.5 1.5 1.0 2.0	5 0.8) 1.2	6 1	0.4 17.0 0.8 22.0	0 0.2 0 0.4	192 0.0 78 0.4	5 16.0 1 26.0	30	15 .	4.4 50.6 6.2 35.4	5 0.2 4 <0.2	3.0	<10 0.4 <10 0.8	<0.2	0.3	0.2 0.3	70 40 35 38	<0.5	1.5	36 190 43 100
R406723 L08-02470 08-02468 511797 6567728 20	150 soil	36.5	4.00	1.76	0.60	1.46	1.28 0.20 <0.5	5 10 E E	1.0 0).4	436 0	.1 <0.5	5 30.5	6	150	15	3.1 2	1.5	i 0.6	2 1	0.6 16.5	5 0.2	162 0.0	6 16.5 19.5	38	13	4.6 49.6 5.2 51.0	5 0.2 0 0 2	3.0	<10 0.4	<0.2	0.3	0.2 0.5	50 34 75 50	1.0	1.5	34 420
R406724 L08-02504 06-02465 511737 6567726 250 R406725 L08-02501 08-02470 511779 6567599 20	150 soil	36.3	4.88	2.12	0.72	1.59	1.40 0.27 <0.5	5 5	2.0 ().4	465 0 365 0	.2 <0.5	5 37.5	8	50	14	3.8 3	1.0 1.5	5 0.8	4 1	0.6 20.5	5 0.2	248 0.4	19.5	18	14	5.2 57.5	5 0.2	3.5	<10 0.4	<0.2	0.3	0.2 0.6	5 <u>42</u>	0.5	1.5	49 190
R406726 L08-02468 08-02471 511779 6567599 250 R406727 L08-02494 08-02472 511759 6567202 20	300 Bca horizon 150 soil B	21.5	5.51 4.27	2.45	1.94	0.29	1.21 0.26 <0.5 1.21 0.24 <0.5	55 55	3.5 2.0 <	2.4 0.2	275 0 346 0	.2 <0.5	5 40.5 5 38.0	10	100 50	40 1	10.4 3 1.9 2	15 2.0 15 1.5) 1.0 5 0.6	2 1).8 22.5).6 19.5	5 0.2 5 0.4	161 0.4 225 0.4	3 21.5 1 19.0	66	15 !	5.8 55.0 5.2 50.6	0.2	4.5	<10 0.6 <10 0.4	<0.2	0.3	0.4 0.1	35 56 70 42	1.0	1.5	46 150 35 220
R406728 L08-02505 08-02473 511885 6566897 20	150 soil	40.5	3.50	1.78	0.29	0.13	1.16 0.27 <0.5	5 10	1.5 <	0.2	376 0	.1 <0.5	5 32.5	4	50	9	1.6 2	.5 1.5	5 0.6	2 1	0.4 17.5	5 0.2	257 0.4	17.5	10	12	4.6 45.3	7 <0.2	3.5	<10 0.4	<0.2	0.3	0.2 0.0	65 34	0.5	1.5	35 280
R406725 L08-02460 06-02474 511385 656657 200 R406730 L08-02546 08-02475 511895 6566744 20	150 soil	41.0	3.07	1.58	0.81	0.25	1.08 0.22 <0.5	5 <5	1.0 <	0.2	344 O	1 <0.5	5 31.5	4	50	8	1.5 2	1.0 2.0	5 0.8	2 1	0.6 23.0 0.4 16.5	0 0.4 5 0.2	196 0.4	4 17.0	10	12	4.6 43.4	4 <0.2	3.0	<10 0.8	<0.2	0.4	0.4 0.6	50 <u>58</u> 50 <u>30</u>	0.5	1.5	46 250 30 270
R406731 L08-02521 08-02476 511895 6566744 150 R406732 L08-02486 08-02477 511864 6566453 20	185 B horizon 150 soil	36.6	4.91 5.60	2.56	0.32	0.18	1.25 0.27 <0.5 1.53 0.29 <0.5	5 10 5 10	2.5 <	0.2	360 0 375 0	.2 <0.5	5 41.0 5 44.5	10	100	14 :	3.7 2 2.4 3	1.5 1.5 1.0 1.5	5 0.6 5 0.8	4 1	0.6 19.0 0.6 21.0	0 0.2	351 0.4	18.0 5 19.5	38	17 -	4.8 57.8 5.4 62.4	3 0.2 \$ 0.2	3.5	<10 0.4 <10 0.4	<0.2	0.4	0.2 0.0	30 54 70 54	<0.5	1.5	48 260 53 200
R406733 L08-02502 08-02478 511864 6566453 150	185 B horizon	28.1	8.01	4.03	1.32	0.66	1.65 0.37 <0.5	5 10	4.0 (0.6	251 0	.3 <0.5	5 55.0	10	100	19	3.6 3	.5 2.0) 1.0	4 1	0.8 27.0	0 0.4	380 0.0	5 23.5	28	19	5.6 77.3	3 0.4	4.5	<10 0.6	<0.2	0.5	0.4 0.1	35 80	1.5	2.0	81 170
R406734 L08-02497 08-02479 511817 6566171 20 R406735 L08-02542 08-02480 511817 6566171 250	300 hardpan	38.8	5.36	4.00	1.56	1.05	1.45 0.28 <0.5 1.60 0.37 <0.5	5 5 5 <5	1.5 I 5.5 I).4).8 1	374 U 050 0	.2 K0.5	5 41.0 5 57.0	10	200	27	3.3 3 3.8 4	1.0 1.5) 0.8	4 1	J.6 21.0 J.8 29.0	0 0.2	312 1.0	19.0) 25.0	32	15 1	5.2 60.4 5.8 81.0	1 0.2 0 0.4	3.5	<10 0.6	<0.2	0.4	0.2 0.1	5 48 05 94	1.0	2.5	52 180 71 170
R406736 L08-02465 08-02481 511771 6565909 20 R406737 L08-02518 08-02482 511771 6565909 300	150 soil 350 Biborizon	34.8	5.77	2.67	0.69	0.90	1.56 0.30 <0.5	5 10 5 10	2.5 ().4	365 0 326 0	2 <0.5	5 40.5	8	50 50	19 :	3.7 3 55 3	1.0 1.5	5 0.8 1 0.8	4 1	0.6 21.0 0.6 21.9	0 0.2	299 0.4	19.0 1 20.5	42	16	5.2 66.0 5.6 61.6	0.2	3.5	<10 0.4	<0.2	0.4	0.2 0.3	70 52 75 54	1.5	1.5	51 200 52 210
R406738 L08-02491 08-02483 511710 6565649 20	150 soil	31.4	7.54	3.40	0.89	0.64	1.78 0.36 <0.5	5 10	3.5 ().4	321 0	.2 <0.5	5 54.5	12	150	24	5.3 4	.0 2.0) 1.0	4 1	0.8 27.5	5 0.4	384 0.1	3 24.0	30	20	6.6 78.3	7 0.4	5.0	<10 0.6	<0.2	0.5	0.4 0.5	35 74	1.5	2.0	95 190
R406739 L08-02535 08-02484 511710 6565649 200 R406740 L08-02482 08-02485 511656 6565540 20	250 Bca horizon 150 soil	27.0	6.97	3.30	0.68	4.99	1.68 0.32 <0.5 1.60 0.30 <0.5	5 10 5 10	3.5 (0.6	333 0 390 0	.2 <0.5 .2 <0.5	5 50.5 5 42.5	10	100 50	17	2.7 4 4.2 3	.0 2.0 1.0 2.0) 1.0) 0.8	4 1	0.8 28.0 0.6 23.0	0 0.4 0 0.2	293 1.4	1 26.0 5 20.0	30	17 18 1	7.2 72.0 5.8 67.0	0 0.4 6 0.2	5.5 4.0	<10 0.6 <10 0.6	<0.2	0.4	0.4 1.0	00 70 75 58	1.0	2.0	64 190 52 180
R406741 L08-02500 08-02486 511656 6565540 200 R406742 L08-02551 08-02487 512978 6566590 20	250 Bca horizon	30.6	6.28	3.06	0.94	4.56	1.47 0.30 <0.5	55	5.0	1.4	318 0 595 0	12 <0.5	5 45.5 5 50.0	8	150	21 !	5.1 3	10 2.0) 1.0	4 1	0.8 24.5 0.6 25.0	<u>5 0.4</u> 0 0.2	238 0.6	<u>5 22.5</u> 5 23.0	26	17	6.2 65.3 64 62.9	<u>3 0.2</u>	4.5	<10 0.6	<0.2	0.4	0.4 0.8	30 68 35 48	1.0	2.0	54 180 53 230
R406743 L08-02553 08-02488 512978 6566590 150	200 hardpan-silcrete	30.6	5.16	2.05	0.95	5.50	1.37 0.21 <0.5	5 10	4.5	3.4	720 0	.2 <0.5	5 37.0	6	50	17	3.6 2	.5 1.5	5 0.6	2 1	0.6 19.0	0 0.2	170 0.4	1 16.0	16	44	4.6 55.2	2 0.2	3.0	<10 0.4	<0.2	0.5	0.2 2.3	35 48	0.5	1.5	41 160
R406744 L08-02464 08-02489 512969 6566694 20 R406745 L08-02560 08-02490 512969 6566694 150	150 soil 200 hardpan-silcrete	34.5	5.12	2.17	0.78	2.58	1.47 0.26 <0.5 1.33 0.17 <0.5	5 15 5 45	3.5 · · · · · · · · · · · · · · · · · · ·	5.4	587 0 642 0	.2 <0.5 .1 <0.5	5 40.5 5 41.0	6	100 50	16 : 19 ·	2.9 2 4.2 2	25 1.5 20 1.0	5 0.8) 0.8	2 1	0.6 21.5 0.4 21.0	5 0.2 0 <0.2	217 0.0	5 19.0 1 18.0	44 20	18	5.2 58.2 5.2 53.1	2 0.2	3.5	<10 0.4 <10 0.4	<0.2	0.4	0.2 1.0 <0.2 1.9	00 44 35 46	1.0	1.5	39 210 32 110
R406746 L08-02477 08-02491 512967 6566741 20	200 soil 400 soil R	35.0	4.53	1.99	1.74	1.15	1.29 0.22 <0.5	5 15	3.5	.6	629 0 614 0	.1 <0.5	5 39.5	6	100	13	2.8 2	1.0	0.8	2 1	0.4 20.5 0.4 20.5	5 0.2	168 0.0	6 17.0 16.5	36	16	5.0 44.3	3 0.2	3.0	<10 0.4	<0.2	0.3	<0.2 1.	15 46	0.5	1.0	36 220
R406748 L08-02547 08-02493 512962 6566750 30	150 calcrete/saprolith	28.6	7.19	1.17	2.90	3.93	0.71 0.19 <0.5	5 10	2.5	2.6	419 0	.1 <0.5	5 91.5	4	50	13	3.0 2	.5 1.0) 1.4	4 1	0.4 <u>20.5</u> 0.4 43.5	5 <0.2	53 0.3	2 36.5	16	16 1	0.4 33.5	5 <0.2	6.0	<10 0.4	<0.2	0.4	<0.2 7.6	50 54	0.5	1.0	21 120
R406749 L08-02489 08-02494 512955 6566760 900 R406750 L08-02490 08-02495 512957 6566764 1900	1000 saprolith, felsic 2000 saprolith, felsic	29.1	11.60	0.71	0.52	0.33	1.15 0.29 <0.5 1.09 0.23 <0.5	5 <5 5 <5	1.0 (8.5 ().2).6	385 0 374 0	.2 <0.5 .2 <0.5	5 169.0 5 167.0	6	50 50	40	0.2 3	1.0 1.5 1.0 1.5	i 2.4 i 2.4	6 1	0.4 74.5 0.6 89.0	5 0.4 0 0.2	41 <0. 73 0.0	2 64.0 6 67.5	12	20 1 26 1	8.8 43.6 9.4 49.6	5 <0.2 3 <0.2	9.5	<10 0.6 <10 0.8	<0.2	0.3	<0.2 2.1	25 56 40 150	0.5	1.0	27 140 75 120
R406751 L08-02474 08-02496 512970 6566785 0	0 vein quartz	46.1	0.08	0.34	0.04	0.03	0.01 0.01 <0.5	5 <5	<0.5	1.4	49 <0	0.1 <0.5	5 1.0	2	50	3	0.3 <0	0.5 <0.5	5 <0.2	<2 <	0.2 <0.5	5 0.6	28 0.4	4 <0.5	6	2 <	0.2 0.3	<0.2	<0.5	<10 <0.2	2 <0.2	<0.1	<0.2 <0.	05 2	2.0	<0.5	5 10
R406752 L08-02453 06-02457 512570 6566764 0 R406753 L08-02498 08-02498 512977 6566787 0	0 saprolith, u-maric 0 pedolith, u-maric	23.0	2.65	5.61	9.50	3.16	0.07 0.17 <0.5	5 <5	<0.5).4).6	561 0	.1 K0.5	5 5.0	92	2350	37	0.8 1	.0 1.0	0.8	<2 1).6 2.0).2 2.5	5 <0.2	1580 0.4	2 4.0 1 2.5	1220	2	0.8 0.2 0.8 1.4	<0.2	1.0	<10 0.4	2 0.4	0.2	<0.2 0.3	20 232 30 90	<0.5	1.0	49 30
R406754 L08-02552 08-02499 512972 6566823 0 R406755 L08-02499 08-02500 512972 6566823 0	0 Fe chalcedony lag 0 saprolith, u-mafic	45.6	0.15	0.80	0.13	0.07	0.03 0.01 <0.5	5 <5 5 <5	<0.5 < 1.0 <	0.2	481 <(91 0	0.1 <0.5 0.2 <0.5	5 2.5 5 4.5	6 74	50 2200	3	0.2 <0	0.5 <0.5 1.0 1.5	5 <0.2 5 0.8	<2 <	0.2 1.0) <0.2) 0.2	516 <0. 1420 <0.	2 1.0 2 4.0	48 428	2	0.4 2.2 1.0 3.2	<0.2	<0.5	<10 <0.2 <10 0.4	2 <0.2	0.3	<0.2 0.2 <0.2 <0.2	25 8 05 208	1.5 <0.5	<0.5	5 20 57 40
R406756 L08-02515 08-02501 512972 6566823 0	0 saprolith, u-mafic	22.0	3.71	7.40	13.60	4.66	0.07 0.23 <0.5	5 <5	<0.5	0.6	437 0	.2 <0.5	5 5.5	72	2600	64	1.6 1	.5 1.0	0.4	<2 1	0.4 3.5	5 <0.2	937 <0.	2 4.5	928	4	1.0 1.9	<0.2	1.0	<10 0.2	0.6	<0.1	<0.2 0.1	10 154	<0.5	1.0	65 <u>30</u>
R406757 L08-02476 06-02302 512372 6566623 20 R406758 L08-02556 08-02503 513012 6566880 0	0 ferricrete	8.0	5.81	44.00	0.14	0.17	0.03 0.15 <0.5	5 15	7.0 <	0.2	463 0 663 0	.a ko.s	5 8.5	202	3400	78	0.4 2	.0 1.0	0.4	<2 1	0.4 3.5 0.4 3.0	0.2	890 2.4	4 <u>6.0</u>	3550	15	1.4 0.9	<0.2	1.5	<10 0.2	<0.2	<0.1	0.2 0.3	15 344	4.5	1.5	42 120 102 50
R406759 L08-02514 08-02504 512970 6566854 0 R406760 L08-02517 08-02505 512970 6566930 20	0 ferricrete 100 soil	10.3	4.88	40.30	0.20	0.16	0.05 0.23 <0.5	5 15 5 20	7.5 (2.0 <).4 0.2	584 0 675 0	.3 <0.5 .1 <0.5	5 6.5 5 33.5	170	7550 300	60 I	0.5 1	.0 0.5 .0 1.0	5 0.2) 0.6	2 1	0.2 <u>3.0</u> 0.4 17.5) <0.2 5 0.6	520 2.4 199 0.4	4 5.0 4 16.5	1930 146	9	1.0 1.8 4.6 50.0	<0.2 3 <0.2	1.0	<10 <0.2 <10 0.4	2 <0.2 <0.2	<0.1	<0.2 1.3	30 304 70 56	2.5	0.5	59 40 35 230
R406761 L08-02543 08-02506 512964 6566992 20	150 soil	33.0	3.30	1.61	0.84	5.40	1.11 0.18 <0.5	5 10	1.5 0	0.6	461 0	.1 <0.5	5 27.5 26 E	6	100	14	3.4 2	1.0	0.6	2 1	0.4 14.0	0 <0.2	145 0.3	2 13.5	38	12	3.8 42.1	1 <0.2	3.0	<10 0.4	<0.2	0.3	<0.2 0.5	50 28	0.5	1.0	31 200
R406763 L08-02559 08-02508 512953 6567104 20	150 calcrete-silcrete	38.6	3.11	1.55	0.40	2.38	1.21 0.20 <0.5	5 10	1.5 (0.2	520 0	.1 K0.5	5 25.5	4	50	8	2.0 2	.0 1.0	0.6	2 1	0.4 14.0	0 <0.2	133 0.3	2 14.0	14	12	3.6 44.6	6 < 0.2	2.5	<10 0.4	<0.2	0.2	<0.2 0.5	50 40	<0.5	1.0	22 240
R406764 L08-02509 08-02509 512953 6567104 500 R406765 L08-02536 08-02510 512950 6567214 20	550 calcrete-hardpan 150 soil	26.3	5.08	2.29	1.05	0.24	1.17 0.29 <0.5 1.65 0.27 <0.5	5 <5 5 20	5.5 (1.5 ().6 2).4	2450 0 627 0	.2 <0.5 .2 <0.5	5 40.5 5 41.5	8	50 200	14 :	2.3 3 0.8 2	15 2.0 15 1.5) 1.2 5 0.8	2 1	0.8 25.5 0.4 21.5	5 0.2 5 0.4	222 1.0	6 24.0) 19.0	20	16 17 1	5.4 49.6 5.2 61.1	5 0.2 I 0.2	5.0	<10 0.6 <10 0.4	<0.2	0.3	0.4 1.5	50 78 35 48	0.5	1.5	38 200 41 230
R406766 L08-02487 08-02511 512950 6567214 150	200 calcrete-silcrete-hpar	n 30.6	6.93	2.61	1.19	1.90	1.71 0.27 <0.5	5 20	4.0 2	2.2	844 O	.2 <0.5	5 43.5	6	50	16	2.4 2	1.0	0.6	2 1	0.4 21.5	5 0.4	136 0.0	6 15.5 15.0	32	19	4.8 67.9	9 0.2	2.5	<10 0.4	<0.2	0.5	0.2 1.2	20 68	1.0	1.0	51 150
R406768 L08-02539 08-02513 512332 6567318 150	200 hardpan	31.2	7.06	2.85	2.03	1.90	1.58 0.32 <0.5	5 20	4.5	3.2 3.4 1	120 0	12 <0.5	5 44.5	8	200	27 :	3.9 2	.0 1.5	5 0.8	2 1	0.6 24.5	5 0.2	170 1.0) 18.5	20	20	40 40.0 5.4 67.0	5 0.2 D 0.4	3.0	<10 0.4	<0.2	0.5	0.2 0.6	25 68	1.0	1.5	45 170
R406769 L08-02481 08-02514 512925 6567420 20 R406770 L08-02548 08-02515 512925 6567420 150	150 soil 200 calcrete, siliceous	34.5 22.3	3.70	1.60	0.94	3.25	1.21 0.26 <0.5 0.97 0.21 <0.5	5 5 5 15	0.5 (6.0 ().6 3.6 1	905 0 890 0	.1 <0.5 .2 <0.5	5 31.5 5 36.0	6	50 50	12 : 19 :	2.1 2 3.0 2	.0 1.5 .5 1.5	5 0.6 5 0.6	2 1	0.4 17.0 0.4 19.0	0 0.2	156 0.4	1 16.5 1 16.5	16 20	12 -	4.6 44.9 4.4 44.0	3 0.2 3 0.2	3.0	<10 0.4 <10 0.4	<0.2	0.3	<0.2 0.3	70 34 55 54	1.5	1.5	32 250 37 130
R406771 L08-02467 08-02516 513469 6566761 350	400 dune sand	40.0	2.97	0.96	0.14	0.15	1.43 0.13 <0.5	5 <5	1.0 <	0.2	715 <(0.1 <0.5	5 18.5	4	150	8	0.6 1	.0 1.0	0.4	<2 1	0.2 10.0	0 <0.2	126 0.4	1 9.5 0 0 0	40	16	2.6 42.	1 <0.2	2.0	<10 <0.2	2 <0.2	0.3	<0.2 0.5	55 22	0.5	1.0	17 160
R406773 L08-02558 08-02518 513460 6566853 350	400 dune sand	42.5	2.64	1.00	0.14	0.15	1.28 0.11 <0.5	5 <5	1.5 <	0.2	761 <(0.1 K0.5 0.1 K0.5	5 16.0	4	150	4	0.6 1	.0 0.5	5 0.4	<2 1	0.2 10.0	0 <0.2	120 <0.	2 9.5	20	13	2.6 39.5	5 <0.2	1.5	<10 0.2	2 <0.2	0.3	<0.2 0.8	50 24 55 20	<0.5	0.5	14 140
R406774 L08-02534 08-02519 513460 6566853 20 R406775 L08-02508 08-02520 513441 6566952 350	150 dune sand 400 aeolian sand	41.5	2.83	1.09	0.19	0.16	1.35 0.12 <0.5 1.55 0.12 <0.5	5 <5 5 <5	1.0 <	0.2	725 <(874 <(0.1 <0.5 0.1 <0.5	5 20.0 5 20.0	4 6	250 150	7 < 5 <	<0.1 1 <0.1 1	.5 0.5 .0 0.5	5 0.4 5 0.4	<2 1	0.2 11.0 0.2 10.5	0 <0.2 5 <0.2	163 0.0 153 0.2	5 10.5 2 10.0	30 40	11	3.0 40.0 2.8 46.0) <0.2) <0.2	2.0	<10 0.2 <10 <0.2	<0.2 2 <0.2	0.3	<0.2 0.5	55 24 30 28	<0.5	0.5	14 150 27 110
R406776 L08-02471 08-02521 513441 6566952 20	150 aeolian sand	38.0	3.76	1.31	0.36	0.28	1.50 0.12 <0.5	5 <5	3.0 0).4	851 <0	0.1 <0.5	5 21.0	8	250	10	0.9 1	.0 0.5	i 0.4	<2 1	0.2 11.0	0 <0.2	185 0.6	6 9.5 10.5	48	12	3.0 46.2	2 <0.2	2.0	<10 <0.2	2 <0.2	0.4	<0.2 0.3	75 30	0.5	0.5	17 140
R406777 L08-02562 06-0522 513433 6565930 200 R406778 L08-02529 08-02523 513439 6566990 150	200 pedolitn/saprolitn 200 sediment/pedolith	32.0	4.39	2.80	1.86	0.31	1.36 0.21 <0.5	5 5	8.5	3.0	576 0	.6 (0.5	5 26.0	16	400	12 :	2.7 2	.0 1.0	0.6	2 1	0.4 12.5 0.4 17.5	5 0.2	292 0.4	10.5	174	17	1.4 44.3	3 <0.2	3.0	<10 0.2	<0.2	0.8	<0.2 2.	50 88	0.5	1.0	38 230
R406779 L08-02527 08-02524 513439 6566990 20 R406780 L08-02530 08-02525 513426 6567047 200	100 creek sediment 250 pedolith/saprolith	40.0	3.30 5.12	1.22	0.44	0.26	1.42 0.09 <0.5 0.30 0.24 <0.5	5 5 5 10	2.0 <	0.2).4	817 <0 184 0	0.1 <0.5 1.9 <0.5	5 17.5 5 9.5	6 46	300 2800	10 I	0.8 1	.0 <0.5 .0 0.5	5 0.4 5 0.2	<2 <	0.2 9.5	5 <0.2 0 <0.2	167 0.1 215 0.0	3 8.0 6 4.5	54 818	11	2.4 37.0 1.2 6.3) <0.2 <0.2	1.5	<10 <0.2 <10 <0.2	2 <0.2 2 <0.2	0.3	<0.2 0.1	35 30 35 210	<0.5	<0.5	18 100 43 70
R406781 L08-02472 08-02526 513426 6567047 50	150 pedolith	31.3	5.49	4.20	1.59	0.38	1.36 0.23 <0.5	5 5	7.5	1.2	503 0	.2 <0.5	5 43.0	20	600	19	2.3 2	.5 1.5	5 0.8	2 1	0.4 21.5	5 0.2	415 0.0	3 18.5	278	13	5.2 42.0	0.2	3.5	<10 0.4	<0.2	0.3	<0.2 1.3	75 104	1.0	1.0	47 210
R406782 L08-02324 06-02327 513428 6567047 0 R406783 L08-02479 08-02528 513394 6567051 0	450 silcrete	45.1	0.15	0.58	0.06	0.23	0.03 1.50 <0.5	5 25	2.5 ().2).4 1	480 0	.4 <0.5	5 7.5	6	350	10	0.3 0	.5 1.0	0.2	<2 1	0.2 6.5	5 0.4	38 4.3	8.5 2 3.5	16	24 1	0.8 1.4	0.4	1.0	<10 0.2	<0.2	0.3	0.2 5.0	0 26 00 56	4.0	1.5	9 410
R406784 L08-02533 08-02529 513394 6567051 500 R406785 L08-02507 08-02530 513406 6567140 150	550 saprolite 200 upper clav	26.9	12.40	4.29	1.13	0.11	0.41 0.16 <0.5	5 10 5 <5	3.0 (9.5 ·).4 1.2	148 0 729 0	.1 <0.5 .2 <0.5	5 7.5 5 41.0	8	1000 450	5 I 20 :	0.6 <0 3.3 2	0.5 <0.5 1.5 1.5	5 <0.2 5 0.8	<2 < 4 I	0.2 4.0	0 < 0.2	61 0.6	3 2.5) 18.5	178	6 I	0.8 13.0 5.2 58.8	3 <0.2 3 0.2	0.5	<10 <0.2 <10 0.4	2 <0.2 <0.2	<0.1	<0.2 1.4	45 92 30 148	0.5	<0.5	40 80 56 230
R406786 L08-02525 08-02531 513406 6567140 200	300 lower clay	24.8	5.58	5.01	3.82	3.72	1.57 0.27 <0.5	5 45	37.0	2.2 1	160 0	.2 <0.5	5 49.0	26	550	24	3.0 2	.5 1.5	5 0.8	4 1	0.6 20.5	5 1.8	1320 1.3	2 17.5	114	19	4.8 49.0	0.4	3.5	<10 0.4	0.2	0.4	0.2 3.4	40 372	1.5	1.5	64 140
R406767 L08-02522 06-02532 513403 6567200 0 R406788 L08-02519 08-02533 513409 6567200 380	450 calcrete + saprolite	21.4	4.74	3.38	2.33	12.00	0.82 0.40 <0.5	5 5	3.0 5	5.0	520 0 607 0	.2 K0.5	5 25.0	10	600	24	5.4 2	1.0 1.0	0.4	<2 1	0.4 4.0 0.4 13.5	5 1.2	215 1.3	2 11.0	126	15	3.2 29.9	0.2	2.5	<10 0.2	<0.2	0.1	<0.2 2.3	20 84	1.5	1.5	40 160
R406789 L08-02526 08-02534 513409 6567200 450 R406790 L08-02503 08-02535 513377 6567230 20	500 saprolite + calcrete 150 soil	23.6 38.0	10.40 4.31	1.59	1.30	6.94 0.17	0.45 0.18 <0.5 1.45 0.35 0.5	5 <5 i 5	2.0 2 4.0 0	2.2	106 0 849 0	.2 <0.5	5 23.5 5 37.5	12 8	950 900	11 · 10 ·	1.8 1 1.5 2	.5 0.5 .5 1.5	5 0.4 5 0.8	2 1	0.4 7.5 0.6 18.5	5 <0.2 5 0.2	197 0.0 212 0.0	8 8.0 6 16.5	212 100	6 : 17 -	2.0 12.9 4.8 50.1	3 <0.2 1 0.2	1.5 3.5	<10 0.2	<0.2 <0.2	0.1	<0.2 1.3 0.2 1.3	70 40 15 102	1.0	0.5 2.0	29 70 37 380
R406791 L08-02541 08-02536 513377 6567230 200	250 hardpan	36.5	5.16	3.35	0.47	0.19	1.89 0.21 <0.5	5 5	4.0 0).4 1	580 0	2 <0.5	5 34.5	4	450	8	1.1 2	1.0	0.8	2 1	0.4 19.0	0 <0.2	142 0.4	1 15.5	44	21	4.6 59.8	3 0.2	3.0	<10 0.4	<0.2	0.5	<0.2 1.0	0 70	0.5	1.0	28 170
R406794 L08-02461 08-02538 513319 6567324 50	400 sub-soil	38.5	4.18	2.56	1.01	0.24	1.66 0.28 <0.5	5 10	3.5 ().2).8	607 0	.2 <0.5	5 33.0 5 35.5	8	250	20	4.3 2	.u 1.5 1.5 1.5	5 0.6 5 0.6	2 1	0.4 17.0 0.4 18.0	0 0.4	235 0.4	16.0 16.0	30	17	•.4 54.9 4.2 60.0	0.2	3.0	<10 0.4	<0.2	0.4	<0.2 0.9 <0.2 1.1	50 56 15 58	1.0	1.5	41 350 41 210
R406795 L08-02550 08-02539 513224 6567375 50 R406796 L08-02540 08-02540 513224 6567375 250	150 soil 300 hardpan	34.0 29.5	5.95 7.67	6.20 4.73	0.64	0.13	1.63 0.40 <0.5 1.91 0.33 <0.5	55 55	4.5 0).4 I.4	755 0 405 0	.4 <0.5	5 45.5 5 61.5	10 16	800 350	15 : 24 :	2.7 3 5.3 3	1.0 2.0 1.5 2.0	0.8	4 1	0.6 23.0 0.8 27.0	0 0.4 0 0.4	311 1.0 333 0.0) 19.5 6 25.5	82 62	19 ! 24 !	5.6 60.2 5.8 72.4	2 0.4	4.0	<10 0.6	<0.2	0.4	0.4 1.5	50 126 70 106	1.0	2.0	50 350 64 160
R406797 L08-02555 08-02541 513224 6567375 0	0 Felag	3.3	3.88	56.90	0.07	0.19	0.03 0.69 <0.5	5 <5	10.0 <	0.2 4	670 1	.4 <0.5	5 58.0	12	8250	17	0.9 2	.5 1.5	5 0.6	2 1	0.4 9.5	5 0.2	335 2.3	2 12.0	532	39	3.2 1.4	0.6	2.5	<10 0.4	0.6	<0.1	0.2 2.3	35 1220	1.0	1.5	33 130
R406799 L08-02458 08-02542 513158 6567457 50 R406799 L08-02488 08-02543 513158 6567457 400	450 aeolian sand	42.0	2.43	1.80	0.09	0.09	1.25 0.13 <0.5	5 5	0.5 <	0.2	745 U 789 <(0.1 K0.5	5 17.0	4	200	5	0.7 1	.5 0.5 .0 0.5	5 0.4 5 0.4	<2 1	0.2 10.0 0.2 9.5	0 <0.2 5 0.2	88 0.4	9.5 4 9.5	22	13 .	2.6 41.5	5 0.2 I <0.2	1.5	<10 0.2	<0.2 2 <0.2	0.3	<0.2 0.5	50 34 50 32	1.0	0.5	9 130 26 160
R406800 L08-02557 08-02544 513102 6567516 0 R406801 L08-02510 08-02545 513102 6567516 200	50 sediment 250 saprolith	41.0	2.11	2.48	0.09	0.07	1.16 0.13 <0.5	5 15	2.5 6	5.0 2.0	955 0 537 0	2 <0.5	5 12.5 5 15.5	4	400 200	4	0.1 1	.0 <0.5	5 0.4	<2 <	0.2 7.0) <0.2	87 0.0	6.5	56 38	17	2.0 32.3	7 <0.2 5 N.2	1.5	<10 <0.2	2 <0.2	0.3	<0.2 0.6	65 52 30 90	<0.5 0.5	0.5	13 110 20 100
R406802 L08-02463 08-02546 513049 6567559 50	200 soil	38.0	5.24	2.61	0.79	0.24	1.64 0.33 <0.5	5 10	3.5 (0.6	722 0	.2 <0.5	5 38.5	8	200	20	2.2 2	.5 1.5	5 0.6	2 1	0.6 19.5	5 0.2	227 1.3	2 16.5	48	17	4.6 59.	0.4	3.0	<10 0.4	<0.2	0.4	0.2 0.1	35 60	1.0	1.5	49 250
R406803 L08-02504 08-02547 513049 6567559 300 R406804 L08-02528 08-02548 512048 6568196 5	350 hardpan 100 creek sediment	21.6	5.86 4.97	2.49	2.23	1.27	1.61 0.28 <0.5 1.17 0.23 <0.5	5 10 5 <5	3.5 · · ·	1.0 2 1.4	160 0 824 0	12 <0.5 12 <0.5	<u>29.0</u> <u>4</u> 1.0	8	50 100	12 30	2.5 1 8.0 3	.5 1.0 1.5 2.0	0.4	2 1	0.4 16.0 0.8 24.5	U 0.2 5 0.2	116 0.6 162 0.4	12.5 23.5	24	19 28	<u>3.6 56.4</u> 6.0 49.6	1 0.2 5 0.2	4.5	<10 0.2 <10 0.6	<0.2	0.5	<0.2 0.9	95 <u>68</u> 95 <u>54</u>	1.0 0.5	2.0	33 150 39 140
R406805 L08-02460 08-02549 512032 6568207 5 R406806 L08-02549 08-02550 511508 6562700 5	100 creek sediment	38.9 36.1	2.89	1.21	0.30	1.44	1.17 0.13 <0.5	5 5	1.5 (0.2	544 <0	0.1 <0.5	5 20.5 5 39 F	6	250 50	12	1.4 1	.5 1.0) 0.6	2 1	0.4 13.0 16 20.4	0 <0.2	101 1.0) 12.0	14	13	3.4 40.0	3 <0.2 3 0.2	2.5	<10 0.2	<0.2	0.3	<0.2 0.0	50 24 30 40	0.5	0.5	16 70 37 170
R406807 L08-02469 08-02551 511558 6567503 5	100 creek sediment	37.0	2.62	0.92	0.35	3.63	1.09 0.11 <0.5	5 <5	1.5).4	517 <0	0.1 <0.5	5 18.0	2	50	6	1.1 1	.5 1.0) 0.8	<2 1	0.4 11.5	5 0.6	75 0.1	2 11.5	16	13	3.2 35.9	3 <0.2	2.0	<10 0.4	<0.2	0.3	<0.2 0.8	35 40 35 20	0.5	0.5	15 80
R406808 L08-02506 08-02552 511430 6566145 5 R406809 L08-02462 08-02553 511182 6564636 5	70 creek sediment 30 creek sediment	42.5	2.70	1.02	0.16	0.47	1.15 0.14 <0.5 1.05 0.18 <0.5	5 <5 5 <5	0.5 <	0.2	450 <0 364 0	0.1 <0.5 .1 <0.5	5 19.0 5 24.0	2	150 50	9	1.3 1 2.1 1	.5 1.0 .5 1.0	0.4	<2 1	0.2 12.0 0.4 13.5	0 <0.2 5 <0.2	103 0.0	3 11.0 4 12.5	10	14 14	3.0 38.2 3.6 40.5	2 <0.2 5 0.2	2.0	<10 0.2 <10 0.2	<0.2	0.3	<0.2 0.4 <0.2 0.5	45 22 50 30	0.5	1.0	20 110 22 160
STD 006 1 08.02459 09.02559	- In housef	24.0	10.00	0.24	0.00	0.02	3.20 0.27	5 10	25 0	3.2	358 0	3 .05	5 200	c	200	8	01	0 10	1 00		12 104	0 202	10 04	. 100	12	10	3.4 107	0 70	20	/10 0.0	0.2	0.0	20.2 1	10 04	25	1.0	10 00
STD 006 L08-02485 08-02560 · · ·	In-house reference	34.0	10.30	0.34	0.20	0.02	3.40 0.29 <0.5	5 10	2.5 9	0.8	365 O	.3 <0.5	5 37.5	2	150	8	0.1 1	.5 1.0) 0.6	<2 1		5 <0.2	8 0.1	5 12.0 5 12.5	42	13	3.6 107.	0 8.0	2.0	<10 0.2	<0.2	0.6	<0.2 1.	15 96	3.5	1.0	32 110
STD 006 L08-02511 08-02561 · · · · · · · · · · · · · · · · · · ·	In-house reference In-house reference	34.5 34.5	10.20 10.40	0.32	0.20	0.03	3.37 0.28 <0.5 3.38 0.26 <0.5	5 5 5 <5	1.5 7 1.5 8	5.8 1.6	351 0 360 0	13 <0.5 1 <u>3 <0</u> .5	5 37.5 5 <u>3</u> 6.5	2	150 150	5 <	U.1 1 <0.1 1	.0 1.0 .5 <u>1.</u> 0) 0.6) <u>0.6</u>	<2	J.2 18.5 <u>J.2 19</u> .0	5 0.2 0 0.4	7 0.0	5 12.5 5 <u>12</u> .0	14	14 14	3.6 103. 3.4 <u>10</u> 3.	U 7.6 0 7.2	2.0	<10 0.2 <10 0.2	<0.2	0.6	<0.2 1. <0.2 1.	15 96 15 94	2.5 2.5	1.0	24 110 9 110
Mean AccVal	Accented value	34.3	10.30	0.33	0.20	0.03	3.34 0.28 <0.5	5 8	2.0 8	2.9 3 6.0	58.5 0.2 330 0	275 <0.5	5 36.9	2.75	162.5 120	6.5	0.1 1	.3 1.0	0.6	<2).3 19.0 . 91.4	0 0.3	8 0.0	3 12.3 1 -	19.5 9	13.5	3.5 104.	8 7.7	2.0	<10 0.2	0.2	0.6	<0.2 1.	14 95	0.0	1.0 1 0.8	8.75 105
			3.00	0.23	0.21	0.02	0.17 0.22 0.40	- 0.45	170.0	1.0	2.00 0		0.1	0.r	.20	140	1.0		0.0		21.0	0 0.1	1070				103.	- 12.0	2.0						0.0	1.5	241 412
Acc Val	In-house reference Accepted value	6.5	4.18	49.60 45.50	0.11	0.09	0.17 0.33 1 0.17 0.42 0.83	10 3 0.83	470.0 8 438.0 8	1.2 7.0	งาย 1 354 1.	.3 0.5 32 0.48	21.5 3 18.0	20 18.5	500 471	149 141 1-	1.3 2 41.0	.o 1.5 	0.6	2 1	5.4 10.0 · 11.7	o 0.2 7 0.1	1870 5.0) 12.0	56 30	50 S	5.0 6.3 · 6.0	0.8	2.5	kiu 0.4 1.12	0.6	0.1	<u>0.2</u> 2.6 - 1.0	ou 716 00 932	9.0	1.5	295 88

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														TAB	BLE A	2.2																					
										GE	OCH	EMIS	STRY	OF	DRIL	L CO	RE M	ATERI	ALS																		
Drillhole	Sample	Depth	Description	XRF >	XRF	XRF	XRF Na20	XRF X K20 M	RF XRF	P205	XRF TiO2	XRF Mp0	XRF	XRF Ba	XRF :	XRF XRI	F ICP-M	5 ICP-MS	i ICP-MS	S ICP-M	5 XRF	XRF	XRF >		F XRF	XRF IC	P-MS ×	RF XB	RE ICP-M	S ICP-M	3 XRF		ICP-MS	XRF	ICP-MS	XRF X	KRF Zr
No	No	(m)	Description	3102 A	%	%	%	%	go <u>cao</u> % %	%	%	%	ppm	ppm	ppm	ppm ppn	n ppm	ppm	ppm	ppm	ppm	ppm	ppm j	opm ppr	n ppm	ppm p	ppm p	opm pp	m ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm r	ppm
KLHRDD1	R 619670	0.85-0.95	Red-brown clayey sediment + earthy calcrete	57.2 7	7.83	2.73	0.29	1.05 1	.43 13.60	0.044	0.347	0.01	529	717	<10	10 <10) 2.5	4.5	0.1	<0.5	<10	890	20	(10 20	<10	<10	0.8	10 50	0 0.2	1	160	<0.2	0.3	60	21.5	50 1	190
KLHRDD1	R 619671	1.40-1.55	Pale brown indurated sediment	49.7 1	0.50	3.36	0.42	1.06 1	56 15.00	0.053	0.369	0.01	1085	2060	<10	20 <10) <0.5	5.5	0.2	<0.5	<10	750	20	(10 20	<10	<10	0.4	10 60	0 0.4	2	310	<0.2	0.3	80	1.5	40 1	140
KLHRDD1	B 619672	2.80-2.90	Red-brown hardpan, indurated gravel & clay sediment	71.3 1	2.00	3.21	0.89	1.89 U 1.62 D	70 0.29	0.033	0.375	0.03	160	627	210	20 <10	J (U.5 1 0.5	4.5	0.2	<0.5	/10	270	30	(10 20	10	210	1.0	10 70	0 0.4	2	90	<0.2	0.5	60	5.5	210 2	260
KLHRDD1	R 619674	4.95-5.10	Pale brown weakly indurated sediment	80.5 9	9.76	2.78	0.82	1.45 0	.66 0.22	0.015	0.348	0.01	168	627	20	10 10	0.5	3.5	0.2	<0.5	10	800	30		10	<10	1.0	20 5	0 0.4	2	80	<0.2	0.4	60	5.0	520	120
KLHRDD1	R 619675	6.67-6.73	Pale brown indurated gravelly sediment	71.8 1	3.40	5.29	0.85	1.19 0	.98 0.30	0.020	0.482	0.01	172	537	<10	<10 <10) <0.5	8.0	0.2	< 0.5	<10	260	20	10 20	20	<10	1.2 🛛 🗸	(10 5)	0 0.6	2	80	< 0.2	0.3	100	1.5	860 1	150
KLHRDD1	R 619676	9.38-9.45	Brown alluvium	81.4 8	8.51	3.46	1.17	0.99 0	.57 0.13	0.010	0.343	< 0.01	136	358	<10	<10 <10) <0.5	6.0	0.1	< 0.5	<10	2960	20	(10 20	10	<10	1.0	10 50	0 0.6	2	60	< 0.2	0.3	70	2.5	2200 1	140
KLHRDD1	B 619677	10.50-10.55	Pale greyish clay-rich sediment Multipologized colluging with objected Equipolithe Limettles	//.3 1	0.10	4.34	1.01	0.50 1	37 0.17	0.007	0.469	<0.01	188	90	<10	20 210	J (U.5) /05	9.0	1.0	<0.5	<10	3270	30 30	160 <11 con or	J 10	<10	1.0	50 31 450 2	0 0.4	2	- 40	<0.2	20.1	270	2.5	490 7	220
KLHRDD1	B 619679	13 05-13 13	Multicoloured colluvium with abraded Fe-pisoliths + mottles	72.7 1	0.80	7.24	0.52	0.17 0	06 0.12	0.021	0.803	0.05	401	448	<10	20 <10	1 <0.5	7.0	1.0	<0.5	<10	5780	100	660 20 650 20	10	<10	22 5	500 30 500 <1	0 0.8	2	20	<0.2	<0.1	150	4.0	350	190
KLHRDD1	R 619680	13.85-13.95	Pale greyish clay-rich plasmic zone, yellow mottles	56.0 2	2.20	3.99	1.77	0.11 2	49 0.16	0.005	1.100	< 0.01	581	90	<10	10 10	< 0.5	3.0	0.4	< 0.5	40	13600	30 1	670 10	30	<10	1.8 5	520 <1	0 0.2	2	30	<0.2	<0.1	60	3.0	670	180
KLHRDD1	R 619681	18.80-18.85	Green smectitic clay-talc, saprolite	43.2 1	1.60	11.60	2.52	0.06 16	6.80 0.88	0.012	0.613	0.09	633	<89.57	7 <10	<10 <10) <0.5	1.5	< 0.1	< 0.5	20	15300	390 6	510 17) <10	<10 🛛	(0.2 3	940 <1	0 <0.2	<1	30	0.2	<0.1	380	2.0	340	60
KLHRDD1	R 619682	25.40-25.50	Green & yellow-brown clay-rich ferruginous saprolite	43.6 9	9.31	17.80	2.39	0.08 14	.30 0.20	0.017	0.459	0.06	521	<89.57	7 <10	<10 <10) <0.5	2.0	0.4	< 0.5	<10	12100	290 4	730 12) <10	<10	0.8 3	550 <1	0 < 0.2	<1	20	<0.2	<0.1	270	7.5	1540	70
KLHRDD1	R 619683	36.55-36.65	Brown & grey Fe-stained clayey lower saprolite	8.1 1	1.35	20.20	0.66	0.03 19	60 18.10 CO CO	0.039	0.094	1.41	288	806	<10	90 <10) <0.5) <0.5	8.5	0.2	3.5	<10	6250	280	510 16) <10	<10	4.6 1	740 <1	0 <0.2	<1	120	<0.2	4.0	160	14.5	680	50
THHBDD1	B 619684	0.00-01.10	Med-grey serpentinite + some green clay, saprock-protolith Pinkish-white calcrete (sample from mud pit wall near hole)	46.9 6	3.05	1.58	0.18	0.03 2.	14 32.40	0.025	0.322	20.01	629	269	/ 60		J <u>(0.5</u> 1 (0.5	1.0	201	<0.5	10	1000	30 2	290 KH /10 20	/ <10	<u><10 <</u> 210	(U.Z : 0.4	10 <1 10 5		<1 21	370	20.2		50		10 4	160
THHRDD1	R 619686	1.00-1.10	Red-brown harpan, sediment, sandy-gravelly	58.8 9	9.22	3.51	0.64	1.21 1	.66 10.80	0.033	0.404	0.02	669	627	<10	20 10	1.0	7.0	0.2	<0.5	50	3850	30	(10 20	<10	<10	0.8	20 <1	0 0.4	2	200	<0.2	0.4	100	10.5	560	210
THHRDD1	R 619687	2.45-2.55	Red-brown sediment, sandy-gravelly + MnOx coatings & flecks	69.9 1	4.20	5.45	0.67	1.54 1	.09 0.19	0.037	0.510	0.03	264	358	<10	30 10	< 0.5	7.0	0.2	< 0.5	20	900	<10	(10 <1)) 20	<10	1.0 <	(10 10	0 0.4	3	90	<0.2	0.5	60	3.0	700	100
THHRDD1	R 619688	5.00-5.08	Red-brown sediment, sandy-gravelly	62.3 1	6.90	8.96	0.66	1.29 1	.11 0.14	0.038	0.613	0.02	541	179	<10	10 10	0.5	8.5	0.5	< 0.5	<10	3430	20	210 30	10	<10	1.6	40 80	0 0.6	4	70	< 0.2	0.4	160	8.0	1340 7	210
THHRDD1	R 619689	7.07-7.15	Red-brown sediment, sandy-gravelly, + colluvium, pt silicified	59.2 1	6.50	12.20	0.71	1.28 1	23 0.13	0.038	0.717	0.02	441	269	<10	<10 <10	0 <0.5	9.5	0.6	<0.5	<10	1680	<10	140 <10) 10	<10	1.4 <	10 70	0 1.0	4	60	<0.2	0.4	160	1.5	650 1	160
THHRDD1	B 619690	9.63-8.75	Tellow-brown colluvium, silt-sand, part indurated	783 3	2.20	4.84	1.01	0.91 1	.53 2.65 84 0.29	0.019	0.658	20.01	1914	1344	210	20 <10) <0.5 1 <0.5	4.0	1.8	<0.5	210	5850 6250	20 40 1	070 60	20	210	1.2	<u>50 50</u> 150 21	8.0 0 A 0	21	260	<0.2	0.2	360	1.0	1160	80
THHRDD1	R 619692	12.15-12.21	Green saprolite, smectite clay-rich	50.2 1	4.70	7.81	1.09	0.39 1	.92 8.23	0.012	0.264	<0.01	833	896	<10	<10 <10) <0.5	2.0	0.1	<0.5	<10	3070	80 1	700 70	<10	<10	0.6 6	300 30	0 0.4	1	120	<0.2	<0.1	100	1.0	720	70
THHRDD1	R 619693	15.38-15.49	Dark brown Fe-rich clay, indurated & chalcedony veined	52.1 9	9.73	20.00	1.44	0.27 4	73 1.62	0.008	0.294	0.04	409	<89.57	7 <10	<10 <10) <0.5	15.0	0.2	< 0.5	<10	2200	100 2	950 60	<10	<10	3.0 1	310 20	0 0.8	<1	80	<0.2	<0.1	170	3.5	2800	60
THHRDD1	R 619694	16.23-16.32	Green saprolite, smectite clay-rich, hard, some Fe stains	54.5 2	2.40	6.57	1.04	0.25 2	.38 0.33	0.002	0.240	0.02	264	<89.57	7 <10	<10 <10) <0.5	2.0	< 0.1	< 0.5	<10	1470	70 4	130 30	<10	<10	0.6 1	110 <1	0 < 0.2	<1	60	<0.2	<0.1	100	1.5	980	30
THHRDD1	R 619695	23.65-23.75	Dark green lower saprolite, clay-talc-serpentine	47.6 8	8.16	10.10	0.86	0.06 19	1.80 6.91	0.009	0.401	0.13	244	<89.57	7 60	<10 <10	J <0.5	<0.5	<0.1	<0.5	<10	430	110 2	390 40	<10	<10 <	(0.2 9	190 30	0 <0.2	<1		<0.2	<0.1	160	1.0	700	60
TMWBDD1	B 619695	0.60-0.80	Dark grey saprock + green & yellow clays Drange dune sand with earthy to podular calcrete	43.9 8	3.63	199	0.15	0.10 11 0.71 0	<u>39 429</u>	0.023	0.431	0.20	180	179	(20		J <u><0.5</u> 1 <0.5	15	<0.2	<0.5	<10	1000	20 4	<u>540 30</u> (10 10	<10	<10 <10	0.4 1	<u>390 KT</u> 10 57	0 0.4		80	<0.2		40	1.0	40	250
TMWRDD1	R 619698	1.80-2.00	Red-brown snad-clav sediment + earthy calcrete	41.7 5	5.58	2.32	0.13	0.77 1	.22 24.40	0.028	0.232	< 0.01	1049	806	<10	<10 <10) <0.5	5.0	0.1	<0.5	<10	2520	20		<10	<10	0.8	10 50	0 0.2	1	410	<0.2	0.2	60	0.5	790	170
TMWRDD1	R 619699	3.80-3.90	Red-brown hardpan, sediment	67.4 1	1.10	4.81	0.50	1.51 1	11 4.46	0.036	0.475	0.03	481	537	<10	10 <10) <0.5	5.0	0.3	< 0.5	- 30	1260	30	(10 30	<10	<10	1.0	20 6/	0 0.4	2	170	< 0.2	0.3	80	1.0	400 7	200
TMWRDD1	R 619700	5.00-5.10	Red-brown sediment	53.7 9	9.98	5.29	0.55	1.19 1	.21 12.40	0.030	0.489	0.02	773	537	<10	20 <10) <0.5	7.5	0.3	< 0.5	<10	1270	20	10 20	<10	<10	1.2	10 60	0 0.4	2	260	<0.2	0.3	110	1.5	370 1	190
TMWRDD1	R 619/01	5.80-7.10	Reddish sediment-colluvium	59.1 1	4.70	5.78	0.67	1.18 1	08 5.18	0.043	0.713	0.02	2087	250	<10	30 10	<0.5 2 Z0.5	9.0	0.3	<0.5	<10	2690	30	30 20	20	<10	2.4	30 /1	0 0.4	3	130	<0.2	0.3	130	3.5	210 2	250
TMWBDD1	B 619702	8 30-8 40	Dark reddish sediment with 2palaeosol overprint	62.0 1	3.40 8.00	6.75	0.65	1.20 0	38 0.15	0.044	0.725	0.03	553	179	<10	10 <10	1 <0.5	10.0	0.3	<0.5	<10	2170	30	30 20 60 30	20	<10	22	40 7	0 0.8	3	50	<0.2	0.3	200	35	540	230
TMWRDD1	R 619704	10.00-10.10	Dark reddish clayey sand-gravel, variably silicified	73.0 1	2.90	5.16	0.40	0.99 0	.63 0.10	0.035	0.697	0.01	609	269	<10	<10 <10	0 < 0.5	10.0	0.3	< 0.5	<10	1000	20	30 20	20	<10	1.8	10 6/	0 0.4	3	350	<0.2	0.3	110	3.0	890	320
TMWRDD1	R 619705	11.20-11.30	Dark red-brown clay-rich ?plasmic zone material	76.5 1	0.50	4.47	0.50	0.94 0	.61 0.09	0.024	0.650	0.01	709	179	<10	<10 <10) <0.5	6.0	0.2	< 0.5	<10	2130	20	(10 20	10	<10	2.2	10 50	0 0.4	3	30	< 0.2	0.3	90	1.5	340 :	310
TMWRDD1	R 619706	12.20-12.30	Red mottled pale brown plasmic zone	74.4 9	9.58	7.27	0.54	1.03 0	.88 0.08	0.025	0.719	0.03	1033	90	<10	10 10	<0.5	42.0	0.4	< 0.5	<10	3460	30	40 20	10	<10	2.6	20 60	0 0.6	3	30	<0.2	0.3	220	4.0	1620	370
TMWRDD1	B 619707	10.70-12.90	Hed mottled gleyed plasmic zone		1.70	9.20	0.56	1.24 1	25 0.10	0.020	0.718	0.02	2067	200 57	7 20	<10 <10 <10 <10	J (U.5) /0.5	58.0	0.5	<0.5 Z0.5	<10	3150	20	60 ZU 720 20	10	<10 210	2.4 5.0	30 /L 50 2	0 0.6	3		<0.2	20.1	320	3.0	300 3	330
TMWRDD1	R 619709	19,45-19.55	Gleved clay with maroon mega mottles, upper saprolite	44.5 1	7.10	25.20	0.36	0.04 U 0.08 N	40 0.05	0.033	0.347	0.02	1402	179	<10) <0.5	32.0	<0.0	<0.5	<10	1800	20	750 80	<10	<10	1.6	40 2	0 0.2	2	20	<0.2	<0.1	390	3.0	780	140
TMWRDD1	R 619710	23.60-23.70	Pale bluish grey saprolite, smectite + talc + chalcedony veins	48.8 3	1.40	3.87	0.42	0.06 0	53 0.07	0.002	1.430	0.04	929	<89.57	7 <10	<10 <10) <0.5	< 0.5	<0.1	< 0.5	<10	3530	20	500 60	30	<10 <	(0.2	50 <1	0 <0.2	<1	20	<0.2	<0.1	110	<0.5	980	80
TMWRDD1	R 619711	29.00-29.15	Greenish clay-rich serpentine saprolite + yellow & red Fe staining	42.7 1	8.50	23.10	0.85	0.10 1	.60 0.18	0.014	0.725	0.03	1286	<89.57	7 <10	<10 <10) <0.5	1.5	< 0.1	< 0.5	<10	3780	70	560 16) <10	<10	2.0 2	250 20	0 < 0.2	2	30	<0.2	<0.1	200	< 0.5	1140	70
TMWRDD1	R 619712	34.78-34.90	Pale green clay + black MnOx veins & streaks	51.1 1	8.20	14.20	1.46	0.30 2	63 0.34	0.011	0.779	0.14	853	<89.57	7 <10	50 <10) <0.5	2.0	<0.1	<0.5	40	4280	110	530 14		<10 <	(0.2 3	320 <1	0 <0.2	<1	70	<0.2	<0.1	160	<0.5	820	70
TMWRDD1	B 619713	36.35-36.70	I ranslucent-white vein quartz with yellow FeUH coatings [/Au]	<u> </u>	3.63	12.60	2.26	0.08 0	24 0.05	0.053	0.208	0.22	280	269	<10 7 <10	20 <10	J (U.5) /05	3.5	<0.1	<0.5	100	2260	70	140 10 570 12	J <10	<10 <10	0.8	30 ZL 210 2	0 0.2	<1	120	<0.2	20.1	210	- 1.5	290	50
TMWBDD1	B 619715	39.63-39.70	Dark grey & green-gray serpentinite protolith, partially weathered	51.7 1	4.10	13.20	2.36	0.33 2	73 4.47	0.044	0.655	0.08	140	<89.57	7 60	10 <10	1 <0.5	2.5	<0.1	<0.5	<10	340	130	540 10) <10		(0.2 4	480 4		1	70	<0.2	<0.1	260	<0.5	330	80
070.007	D 010710				7.40			0.45		0.007	1.050	0.01	00.1	.00.57				00.0			10				10					-				700	10.5		000
STD 007	H 619748			42.0 1	6.72	28.30	0.08	0.15 0	24 0.20	0.027	1.350	0.04	204	<89.57 Ja	22		J <0.5	63.0	2.2	<0.5	<10	60	20	370 60 107 50	10	5	2.6	40 40	0 1.2	2	11	<0.2	< <u>0.1</u>	951	13.5	20 2	230
Accval				42.0	0.72	20.07	0.03	0.14 0	.24 0.21	0.010	1.400	0.02	230	43	23	<u> </u>	1.0	00.0	2.0	0.4	3		10	+or 30	33		0.0	12	<u> </u>	3		<u> </u>	<u> </u>	- 031	11.0		103
An	alytical Met	nods																																			
	The sample:	marked XRF k	ave been cast using a 12:22 flux to form a glass bead which has																																		_
	been analys	ed by XRF.											-																		_			+			
	The sample	amarked ICP-M	have been dirested with a mixture of budrofluoric L																											_				++			
	nitric, hydrod	hloric and perc	nloric acids and, after evaporation, taken up in HCl.																															+-+			-
	They were t	nen determined	by Inductively Coupled Plasma (ICP) Mass Spectrometry.																																		
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																						TAE	BLE /	42.3	\$													
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FieldN	lo LabSeqN	c LibNo	Coo	ordinates	R Description	XRF SiO2	XRF	XRF	XRF MnO	XRF XRF	XRF	XRF	XRF :	XRF	XRF >	(RF X Ba	RF >	KRF X Rh (RF XR	FXRF	F XRF	XRF	XRF	XRF	XRF	XRF XF	NF XRF	ICP-MS	ICP-MS	ICP-MS Bi	XRF	ICP-MS	CP-MS	ICP-MS Mo	ICP-MS	ICP-MS	XRF	XRF Zr
			m	m		%	%	%	%	% %	%	%	%	%	ppm p	opm p	pm p	opm p	pm pp	m ppm	n ppm	ppm	ppm	ppm	ppm	ppm pp	m ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Н 000)1 L08-0243	8 08-02433	513413	6567185	622560 Silcrete with chalcedony fragments	91.87	0.39	1.61	0.024	0.16 0.19	0.08	0.02	3.13 (0.007	630	427	37	1 1	10 7	9	25	2222	35	10	115	6 3	5 157	3	0.6	0.2	950	<0.2	10	5.4	3	0.1	26	417
H 000	2 L08-0243	5 08-02434	514681	6566206	622561 Granite saprolite	50.36	23.13	1.10	0.005	0.67 0.11	2.51	0.29	0.11 (0.001 3	36900	16	14	7 1	14 2	2	99	26	<2	2	28	<7 1	8 3	3	<0.2	<0.1	330	< 0.2	0.5	1.4	2	0.1	<1	51
H 000	2A L08-0244	1 08-02435	514681	6566206	622562 Granite saprolite silcreted and	91.80	2.65	1.94	0.008	0.23 0.19	0.02	0.03	0.32 (0.023	30	97	17	< 5 1	12 <1	4	9	18	17	3	61	5 1	7 1	8	0.2	<0.1	240	< 0.2	0.5	1.8	2	<0.1	5	266
H 000	2B L08-0244	7 08-02436	514681	6566206	622563 Silcrete	95.16	0.12	0.88	0.008	0.03 0.05	0.24	0.02	2.33 (0.006	1890	302	28	<2	9 1	13	<1	15	< 5	3	56	4 3	0 <1	3.5	0.4	<0.1	320	< 0.2	2	5.6	3	<0.1	44	506
H 000	3 L08-0243	9 08-02437	514624	6566515	622564 Dune sand	93.27	2.87	1.13	0.010	0.09 0.07	0.33	0.89	0.15 (0.014	< 40	377	37	24 1	11 2	8	5	24	2	4	20	4 1	9 7	1.5	<0.2	< 0.1	160	<0.2	0.5	0.8	<1	0.2	0	142
H 000)4 L08-0245	5 08-02438	511520	6566767	622565 Calcrete	37.60	8.46	2.82	0.018	1.72 19.0	6 0.18	0.87	0.29 (0.060	630 1	732 3	313	33 2	22 12	2 10	12	27	30	7	51	12 1	6 38	8	0.4	0.1	970	< 0.2	1	0.4	2	0.3	3	78
Н 000)5 L08-0244	3 08-02439	510885	6669728	622566 Lag of GRV	68.63	13.72	4.15	0.095	0.70 0.45	3.71	5.04	0.64 (0.130	450 2	187 2	242	159 1	104 72	2 41	15	8	10	1	17	7 2	2 85	6	0.8	<0.1	260	<0.2	2	0.8	3	0.9	17	310
H 000)6 L08-0244	8 08-02440	509836	6566876	622567 Silcrete	96.12	0.19	0.63	0.008	0.02 0.05	0.00	0.02	2.38 (0.026	10	115	8	<2 1	12 <8	5 18	3	12	< 5	5	30	2 2	5 2	1	0.4	<0.1	230	< 0.2	2	5.6	5	< 0.1	91	683
H 000	18 L08-0244	6 08-02441	519586	6568066	622568 Gypsum dune	47.74	1.22	0.43	0.005	0.24 14.3	5 0.14	0.43	0.05 (0.006	50	193	98	10 1	10 1	2	1	6	<7	3	6	<7 1	D 2	2.5	<0.2	<0.1	63140	< 0.2	<0.5	0.4	3	0.1	<2	61
H 000	9 L08-0245	2 08-02442	519770	6567534	622569 Yellow dune	93.30	2.54	0.81	0.008	0.09 0.13	0.36	0.90	0.09 (0.010	< 40	417	42	24 1	13 2	4	3	18	17	1	14	3 1	6 6	0.5	< 0.2	<0.1	210	< 0.2	<0.5	0.6	2	0.2	3	119
H 001	0 L08-0245	0 08-02443	512961	6566754	622570 Granitic detritus	79.19	9.22	2.36	0.012	0.47 0.38	1.15	1.90	0.30 (0.018	< 30	717 1	19	57 3	31 24	1 9	12	36	8	0	52	8 3	D 19	4.5	0.2	0.1	210	< 0.2	1	1.2	2	0.5	2	195
H 001	1 L08-0243	7 08-02444	512961	6566754	622571 Carbonated granite saprolite	48.72	12.49	1.10	0.012	2.15 12.7	7 0.56	1.14	0.27 (0.024	3020	297 1	31	37 3	38 18	3 7	17	35	11	4	39	1 2	2 32	3	< 0.2	<0.1	590	< 0.2	0.5	0.2	<1	0.3	<2	93
H 001	2 L08-0244	5 08-02445	512961	6566754	622572 Granite saprolite	62.06	17.16	1.48	0.007	0.76 0.30	1.50	0.59	0.34 (0.017 2	20580	180	26	15 1	105 68	5 14	20	21	17	4	60	16 3	3 31	4	< 0.2	0.1	120	< 0.2	1	0.6	1	0.1	2	106
H 001	3 L08-0244	9 08-02446	512977	6566783	622573 Amphibolite	51.30	11.09	11.27	0.125	11.04 8.23	3.19	0.56	0.61 (0.007	20	338 2	216	16 🔸	<1 0	15	13	1290	128	50	228	53 1	B 29	1.5	< 0.2	0.1	110	0.2	<0.5	< 0.2	<1	0.2	4	40
H 001	4 L08-0244	4 08-02447	513012	6566880	622574 Ferruginous saprolite lag of ultramafic	13.46	9.32	60.39	0.172	0.20 0.20	0.04	0.02	0.20 (0.036	1450	466	50	<5	9 <1	8 5	13	4278	3477	252	318	69 1	7 140	7.5	0.2	0.2	1090	< 0.2	5	1.8	<1	0.1	8	25
H 001	5A L08-0245	1 08-02448	512932	6567318	622575 Lag of silcrete and Fe silcrete	92.92	0.47	2.86	0.013	0.05 0.09	0.01	0.02	2.12 (0.011	40 1	805	56	<2	1 0	13	5	25	0	3	93	6 2	5 3	3.5	0.6	0.1	710	< 0.2	3	2.6	4	<0.1	35	607
H 001	5B L08-0245	4 08-02449	512932	6567318	622576	86.60	1.05	8.40	0.019	0.04 0.05	0.01	0.02	2.40 (0.026	20	927	32	<4 1	19 7	22	11	54	6	<4	186	13 4	0 4	7.5	0.8	0.5	380	< 0.2	6	4.4	8	< 0.1	43	1395
H 001	9 L08-0243	3 08-02450	513082	6566983	622578 Hardpan	63.22	8.86	9.96	0.049	4.51 2.28	0.56	0.97	0.39 (0.027	0	511	84	29 2	28 10) 13	13	1782	630	38	111	17 2	4 38	4	0.2	0.2	260	0.2	1	1.2	1	0.3	1	146
H 002	0 L08-0244	2 08-02451	513307	6567147	622579 Mag lag	4.23	8.57	77.99	0.043	0.13 0.16	0.01	0.02	0.83 (0.040	800 1	683	72	0 <	24 <7	, 10	45	16211	549	32	789	8 5	4 15	19	1	1.2	660	0.2	1.5	4.6	3	0.2	16	163
H 002	1 L08-0245	6 08-02452	513264	6567033	622580 Mag lag	3.73	9.13	78.09	0.034	0.10 0.08	0.08	0.02	0.76 (0.039	850 1	285	49	<1 <	(16 <7	, 10	39	17230	636	39	721	< 1 4	9 21	19	1.4	0.9	520	0.4	1.5	4.6	2	0.1	19	151
H 002	2A L08-0243	6 08-02453	513154	6566977	622581 Ferruginous saprolite of ultramafic	9.08	1.37	70.37	0.304	0.85 0.28	0.10	0.07	0.08 (0.027	1280 3	i333 1	41	3 t	16 8	14	<2	719	2841	277	97	9 7	95	4.5	0.2	0.1	1980	< 0.2	<0.5	0.6	3	< 0.1	10	14
H 002	2B L08-0244	0 08-02454	513154	6566977	622582 Ferruginous saprolite of ultramafic	39.03	1.23	45.98	0.332	0.72 0.18	0.39	0.05	0.05 (0.028	3090	473	65	6 1	18 15	5 23	7	1011	2678	260	170	16 3	85	6	< 0.2	<0.1	430	< 0.2	0.5	0.6	1	0.3	5	1
H 002	3 L08-0245	3 08-02455	511520	6566767	622583 Calcrete from stream	29.27	3.08	1.16	0.007	1.72 32.4	7 0.11	0.58	0.19 (0.074	120	209 3	364	17 1	17 <1	14	3	17	< 8	8	26	12 4	1 15	3.5	< 0.2	< 0.1	530	< 0.2	<0.5	0.2	<1	0.2	4	150
STD 00	01(L08-0243)	4 08-02456 AccVal	-	-		29.65	12.25	10.43	0.046	0.68 19.1	5 0.12 3 0.15	0.20 0.20	1.21 (0.015 1.030	410	319 1 337 1	138 146	3 1 6	13 4 4 3	7	16	125	115	8	264 306	23 1 31 4	9 13 I 12	23 20	0.4	0.3	920 1440	0.4	2	1.8	2	<0.1 <	9 10	205
		110010				00.00	12.01	10.01	0.0 10	0.00 20.0	0.10	0.20		0.000														20	0.1	0.01		-			1.02			200
STD 00	00(L08-0245)	7 08-02457	-	-		71.51	18.08	0.38	0.003	0.30 0.02	0.38	3.64	0.41 (0.006	2090	283 330	61 68	98 3 109 3	37 13 31 22	} 9 > 7	23	119	1 9	3	87	1 2	12 15	3	7.4	0.2	180	<0.2	3.5 6	0.8	<1 0.75	0.6	<1 4	94
Cd an	d Ag all <0.5	ppm by ICF				12.21	10.20	0.12	0.001	0.01 0.00	. 0.10	0.01	0.01	5.000				100 0		· ·	20	120			102		-		12.0	0.0	100		-		0.10			120
			Coo	ordinates	B															_																		
	LabSort								Cline	Tromol Forra		Musa (Sooth L	lomat I	ul naha		ioro C	Itha	lare		Opal			Schwer														
FieldN		LibNo	× (m)	y (m)	Number Description	Qtz	Kao	Smectite	chlore	ite gedrit	e Halite	ov-ite	ite	ite	m-ite	Albite c	line o	clase Ca	alcite	e ase	silica	Rutile	Gyp-sum	tmannit e														
Н 000)1 L08-0243	8 08-02433	513413	6567185	Silcrete with chalcedony																																	
H 000	12 L08-0243	5 08-02434	514681	6566206	622560 fragments						X											X	X															
H 000	2A L08-0244	1 08-02435	514681	6566206	Granite saprolite silcreted and							×																										
H 000	2B L08-0244	7 08-02436	514681	6566206	622562 calcreted		X							×						×																		
Н ООГ)4 L08-0245	5 08-02438	511520	6566767	622565 Calcrete		~				×						•																					
Нол	15 L08-0244	3 08-02439	510885	6669728	622566 Lag of GRV											<u>_</u>	<u>_</u> +	×																				
H 000	19 L08-0245	2 08-02442	519770	6567534	622569 Yellow dune	×× ~~~		×	**					~		~~		~		_																		
H 001	0 L08-0245	0 08-02443	512961	6566754	622570 Granitic detritus									,		<u>~</u> +								~														
H 001	1 L08-0243	7 08-02444	512961	6566754	622571 Carbonated granite saprolite							÷		<u>^</u>		~	~							~~~														
H 001	2 L08-0244	5 08-02445	512961	6566754	622572 Granite saprolite	- <u> </u>					~	Ĵ								_																		
H 001	3 L08-0244	9 08-02446	512977	6566783	622573 Amphibolite			J												_	J																	
H 001	4 L08-0244	4 08-02447	513012	6566880	622574 Ferruginous saprolite lag of ultramafic		U.									~				_																		
H 001	9 L08-0243	3 08-02450	513082	6566983	622578 Hardpan		Ĵ	~		~ ~										_																		
H 002	20 L08-0244	2 08-02451	513307	6567147	622579 Mag laq			~~~		X				· · ·		~	~																					
H 002	1 L08-0245	6 08-02452	513264	6567033	622580 Mag lag	Û																																
H 002	2A L08-0243	6 08-02453	513154	6566977	622581 Ferruginous saprolite of ultramafic	×																																
H 002	2B L08-0244	0 08-02454	513154	6566977	622582 Ferruginous saprolite of ultramatic														×																			
H OD	3 L08-0245	3 08-02455	511520	6566767	622583 Calcrete from stream											-					xx																	
						_ XX	×											×																				
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Dissolution				4-acid	4-acid 4	-acid 4-	acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	Fusion	4-acid	Fusion	4-acid	Fusior	Fusion	Fusion	4-acid	f Fusior	n 4-aci	d Fusio	on Fusi	on Fus	ion Fusi	ion Fusio	n Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion Fu	sion (
Determination Detection Unit	-	Depth m m		1CP-UES 1 ppm	1CP-UES IC 2 ppm	-OES ICP 0.01 % p	PDES II 1 pm	1 ppm	2 ppm	0.5 ppm	0.2 ppm	0.5 ppm	1 1 ppm	0.2 ppm	2 ppm	0.1 ppm	0.05 ppm	0.1 ppm	0.02 ppm	1CP-MS 10 ppm	0.2 ppm	0.01 %	0.01	0.01	S ICP-UE 0.01 %	0.01 %	0.01 %	.S ICP-М 10 ррт	S ICP-U 1 ppm	S ICP-0 50	ES ICP-I 0.5 1 ppi	MS ICP- 5 0. 11 pp	MS ICP- 5 0.3 m pp	MS ILP-M 2 0.5 m ppm	IS ICP-MS 0.5 ppm	0.2 ppm	1CP-MS 2 ppm	0.2 ppm	0.5 ppm	0.2 ppm	0.5 ppm	0.2 ppm	0.5 C ppm p	-MSTUR 1.2 (pm p	P-MSTU 0.2 opb j	5 ppb	D.1 ppm
FieldNo R406330 R406331 R406332 R406333 R406334 R406335 R406335 R406337 R406337	DH Name TAR07 TAR07 TAR07 TAR07 TAR07 TAR07 TAR07 TAR07 TAR07 TAR07	From Tc 0 2 2 6 10 12 12 14 14 16 16 182 0 2	Area HH	Mn 102 89 175 756 94 132 535 2140 270	V 82 104 84 80 148 150 184 132 99	Ca () 0.08 0.09 1 2.3 1 1 0.29 1 1 1.62 1 1 2.01 4 4 4.34 4 4	Cu 9 16 18 14 13 17 45 43 22	Zn 18 26 32 33 14 42 90 70 42	Co 6 10 20 8 14 26 30	As 5.5 7 9.5 4 11 11 13 12 9	Sb 0.4 0.6 0.4 0.6 0.6 0.6 0.6 0.8 0.8	W 2 3.5 4 3.5 2.5 2 1 1 1 5	Pb 17 14 16 19 15 15 15 17 24	Mo 0.8 2.4 1.6 1 2.4 1 1 1.6 2.6	Ni 14 28 56 78 58 48 48 46 44 44	Bi 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.05 0.1 0.2	U 1.60 2.70 2.20 1.95 1.95 2.65 2.75 2.05	TI 0.3 0.3 0.4 0.2 0.2 0.2 0.4 0.4 0.4	Rb 51.80 46.80 53.50 37.50 39.50 55.60 63.20	Sn 5 5 5 5 5 5 5 5 5 5 5 5 5	Te 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Si 41.1 37 33.6 36 37.2 31.6 27.3 26.8 29.9	Al 2.89 4.57 5.67 5.03 3.15 5.36 7.58 7.02 5.62	Fe 2.39 3.69 3.59 3.64 4.65 5.61 5.99 4.99 2.52	Ti 0.22 0.27 0.3 0.33 0.22 0.35 0.48 0.48	Mg 0.35 0.33 0.65 1.02 0.55 1.48 1.71 1.37	K 0.86 0.76 0.89 0.89 0.6 0.84 1.21 1.84	Zr 180 190 250 130 150 210 160 260	Ba 553 525 454 259 2010 439 1050 1470	Cr 50 300 200) 500 400) 100) 150 250	Ce 33. 18. 71 71 71 71 73 88. 88.	L. 5 14 5 1 5 1 3 24 18 18 0 6 3 3 5 4 5 4 5 4 5 4	a P 5 4 5 6 5 4 7 10 1 10. 4 10.	r Nd 4 16 2 6.5 4 24.5 4 14.5 2 4.5 0 36 .2 38.5 .2 40 8 24	Sm 3.5 1 4.5 5 2.5 1 6 6 7 7 45	Eu 0.6 0.2 0.8 0.6 0.1 1.4 1.8 2 1	Gd 2 1 4 2 1 4 6 6	Tb 0.4 0.1 0.6 0.4 0.1 0.6 0.8 0.8 0.8 0.8	Dy 2.5 1 3.5 2.5 1 3 3.5 4	Ho 0.4 0.2 0.6 0.4 0.1 0.6 0.6 1 0.9	Er 1.5 0.5 2 1.5 0.5 1.5 2 2.5 2.5 2.5	Tm 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.4 0.4	Yb I 1.5 0 1 0 2 0 1.5 0 1.5 0 1.5 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	LU // 1.2 () 1.1 () 1.2 () 1.2 () 1.1 () 1.2 () 1.2 () 1.2 () 1.4 () 1.4 () 1.4 () 1.4 () 1.4 () 1.4 () 1.4 () 1.4 () 1.5 ()	Au	Ag 30 55 85 420 295 510 275 30 20	Cu 0.7 1.9 1.6 1.6 0.6 0.4 1.1 2 2.4
R406339 R406340 R406340 R406341 R406342 R406343 R406344 R406345 R406346 R406347 R406348	TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08 TAR08	4 6 6 8 10 16 16 18 18 20 20 28 28 30 30 36 0 2	HH	166 144 100 150 1220 3300 1660 1590 1200 301	212 276 224 204 168 248 362 282 282 206	0.12 0. 0.13 0. 0.25 0. 2.7 5 3.13 2 1.78 5 1.96 6 5.4 2 5.4 2	22 30 37 39 52 54 54 63 68 26 26	42 50 45 62 101 131 100 93 98 78 78 32	10 12 26 54 174 204 166 172 76 12	11 11 9.5 12 9 35 31 83 25 55	0.4 1 1.2 0.8 0.4 0.2 0.8 0.8 0.8 0.8 0.8 0.4 0.5	1.5 2 1.5 2 1 2.5 2 1.5 2 1.5 0.5 1.5	20 18 8 3 4 3 3 3 3 1 14	2.0 1.6 2 2.4 0.8 2.8 1.8 1.6 0.6 1.2	42 68 62 272 670 1400 1900 1750 1740 824 82	0.2 0.8 0.9 0.4 0.3 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2	2.05 2.25 2.65 3.15 1.75 1.90 2.10 1.85 1.35 0.55 1.60	0.4 0.3 0.05 0.05 0.4 1.2 0.2 0.05 0.05 0.05	63.00 63.00 50.20 18.20 6.10 2.52 4.90 3.26 1.78 2.70 66.50	5 5 5 5 5 5 5 5 5 5 20 5	0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.1 0.1	20.0 30.5 27 34.3 25.9 23.6 25.1 22.6 24.9 21.1 30	7.35 6.22 4.06 6.3 4.14 2.24 2.81 2.72 4.51 4.06	9.72 9.72 10.1 6.91 7.79 7.28 15.8 12.8 11.8 8.65 4.99	0.3 0.41 0.49 0.35 0.2 0.23 0.14 0.19 0.2 0.29 0.29 0.24	0.68 0.75 1.05 1.35 11.1 6.16 7.94 10.1 10.1	1.10 1.03 0.84 0.4 0.21 0.08 0.1 0.1 0.08 0.09 0.85	200 170 220 90 90 30 90 80 110 80 130	692 351 278 149 116 298 144 103 30 666	450 450 115 220 225 205 275 285 150 300	0 32. 0 32. 0 22. 0 6.5 0 62 0 62 0 62 0 58 0 58 0 23 0 8	5 19 5 19 5 9. 5 3. 5 3. 2 2. 3 2. 3 2. 3 2. 3 2. 3 2. 3 2. 3	5 3.1 5 3.1 5 2.1 5 2.1 5 0.1 4 7.1 4 7.1 9 5.1 5 1 5 1	8 12.5 6 12.5 6 9 8 3.5 8 34 2 29 6 22 6 22 6 10 4.5 6 17	4.5 2 2.5 2 0.5 8 6 4.5 2.5 1.5 3.5	0.4 0.6 0.6 0.1 2.2 1.8 1.2 0.8 0.6 0.8	1 2 1 1 10 6 4 2 2 4	0.4 0.4 0.2 0.1 1.6 1.2 0.8 0.4 0.4 0.4	2 2 2 0.2 9 7.5 4 3 2.5 3	0.0 0.4 0.4 0.4 0.1 2 1.6 0.8 0.6 0.6 0.6	2.3 1.5 1.5 1 0.2 5 4.5 2.5 1.5 1.5 1.5 2.5	0.4 0.2 0.1 0.1 0.8 0.6 0.4 0.2 0.2 0.2 0.2 0.2 0.2	1.5 0 1.5 0 1 0 0.2 0 4.5 0 2 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0 1.5 0	1,2 () 1,2 () 1,1 () 1,1 () 1,6 () 1,6 () 1,2 () 1,1 ()) (1,	0.6 0.6 1.8 0.2 0.4 0.2 1 1.6 2.8 1.2	40 50 65 15 70 75 2 2 5 30	2.4 3.5 4.1 3.3 0.3 0.3 0.7 1.8 1.1 0.4 2.6
R406349 R406350 R406351 R406352 R406352	TAR09 TAR09 TAR09 TAR09 TAR09	2 4 4 6 6 8 8 12	HH HH HH 2 HH	394 165 149 1550	190 252 342 296	0.95 3 0.72 6 1.52 8 8.43 8	33 61 86 83	65 40 19 73	14 12 10 40	9 5.5 6.5 4	0.8 0.8 0.8 0.8 0.8 0.8 0.8	1.5 2 0.5 1	20 10 4 6	1.4 1 0.4 0.8	60 44 40 134	0.5 0.3 0.3 0.2	1.95 1.90 1.40 0.50	0.4 0.3 0.2 0.2	71.90 41.30 18.80 17.40	20 10 5 5	0.1 0.1 0.1 0.1	28.6 28 28.1 25.6	7.93 7.28 6.81 7	7.1 7.63 9.25 8.06	0.43 0.47 0.54 0.5	0.80 1.3 0.8 0.78 3.74	0.63 1.3 0.64 0.3 0.28	200 110 190 110	662 821 91 88	300 300 300 350 300) 65.) 65) 24.) 5.5) 15.	5 3: 5 1: 5 2. 5 7.	2 7.1 2 2.5 5 0.1 5 2.3	6 28.5 8 10.5 6 2.5 2 8.5	5.5 5.5 0.5 2.5	0.0 1.2 0.6 0.2 0.8	6 2 1 4	0.4 0.4 0.1 0.6	4.5 2 1 4.5	0.8 0.4 0.1 1	3 1 0.2 2.5	0.2 0.4 0.1 0.1 0.4 0.4 0.1	2.5 0 1 0 0.5 0 2.5 0	12 1 12 1 11 1 14 2	1.2 1.2 1.8 2.8	10 5 2 10 15	2.7 4.3 2 4.8
R406354 R406355 R406355 R406356 R406358 R406358 R406506 R406506 R406507 R406508	TAR10 TAR10 TAR10 TAR10 TAR10 TAR10 TAR10 TAR11 TAR11 TAR11	2 4 4 10 10 12 12 18 18 20 20 21 0 2 2 4 6	HH	216 210 606 3620 1660 2080 186 132 63	948 490 262 324 244 248 224 224 294 660	0.23 (0.23 (0.23 (0.23 (0.23 (0.23 (0.22 (0.23 (0.22 (0.23 (0.22 (0.23 (0.22 (0.23 (82 73 230 87 82 86 22 37 16	24 54 553 417 179 165 30 38 16	6 8 22 114 42 42 6 10 10	24 39 22 15 15 10 15 11 11 18 35	2.4 4.4 3.4 2.4 3.2 2.4 12 1.4 2 4.4	3 3.5 3.5 10.5 3.5 2.5 1.5 2.5 2.5 2.5	29 16 79 496 43 41 16 21 33	1 0.4 0.4 0.6 0.6 0.6 0.8 1.8 1.6 3.2	30 32 38 112 164 162 158 24 38 44	2.2 2.1 2 5 5.8 1 0.8 1 1.1 2	0.40 0.60 1.10 2.25 0.80 0.70 1.05 2.25 3.00	0.2 0.1 0.2 2.4 1 1.4 0.3 0.4 0.1	23.00 13.60 15.00 33.20 119.00 111.00 137.00 41.00 50.10 10.10	20 30 30 120 70 50 50 5 5 5 5 5	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	20.5 20.6 22.6 23.1 23.6 23.4 23.1 32.9 24.1 18.3	9.58 9.56 10.3 8.61 7.09 7.21 3 7.55 10.2	10.0 16.5 13.8 9.71 10.2 8.65 10.1 8.79 11 21	0.65 0.62 0.55 0.6 0.56 0.56 0.56 0.51 0.31 0.37	0.03 0.22 0.48 1.56 1.66 2.54 2.36 0.44 0.77 0.44	0.40 0.16 0.18 0.29 0.9 0.88 1.09 0.64 0.82 0.17	70 100 60 70 60 70 190 190	1300 144 57 48 574 250 299 572 645 437	500 500 350 250 350 350 350 400 250 750) 2.5) 2.5) 9.5) 13) 14) 66) 19.) 28	5 1 5 2 1 5 2 1 5 12 5 12 5 1 3 1!	0.: 0.: 2 1(2 3.: 5 3) 1 3 5 3	2 1 4 1.5 6 2.5 6 71 4 15.5 6 17 8 11 8 11 4 6	0.2 0.2 0.2 20 6 4.5 4.5 2.5 2 15	0.4 0.1 0.2 7.6 1.6 1.6 0.6 0.6 0.4	1 1 32 8 6 2 1	0.2 0.1 0.1 0.1 6 1.2 1 0.4 0.4 0.2	0.2 0.5 1.5 38 8 7 2.5 2 1.5	0.4 0.1 0.2 8.6 1.8 1.4 0.4 0.4 0.2	0.2 0.2 1 26 5.5 4.5 1.5 1 1	0.1 0.1 0.1 0.1 3.8 0.8 0.6 0.2 0.1 0.1	0.2 0 0.5 0 1 0 22.5 3 4.5 0 3.5 0 1.5 0 1.5 0 1.5 0 1.5 0	1 (1 (1 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	2.6 0.4 1 0.2 3.6 3.8 2.6 0.8 1.6 1.4	10 2 10 45 40 15 2 5	0.1 0.2 0.1 1.3 1.6 2 5.4 0.9
R406509 R406510 R406511 R406512 R406513 R406514 R406515 R406516 R406516	TAR11 TAR11 TAR11 TAR11 TAR11 TAR11 TAR11 TAR12 TAR12 TAR12	6 8 8 14 14 22 22 24 24 30 30 39 0 2 2 4 2 4	HH HH HH HH HH HH HH HH	116 142 127 226 366 537 158 284	442 48 44 68 94 102 56 234 700	0.22 1 0.21 1 0.4 1 0.77 1 1.25 1 1.32 1 1.8 1 5.15 3	11 12 12 15 5 10 17 30	31 27 35 42 39 47 26 48	8 4 6 12 18 24 6 10	24 6 6 7 8 9 7 14	1.4 2.6 0.8 0.8 1.4 1.2 1 0.2 1	2.5 3.5 4 5.5 2.5 3 2 1 1.5	20 16 34 20 8 8 9 19	2.6 2.2 1 1.2 0.6 0.8 0.6 1.4	22 10 10 44 40 104 16 28 28	1.3 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.1 0.2 1 0.2	2.70 2.10 2.65 1.90 1.35 1.00 1.80 2.30 2.75	0.1 1.9 2.1 0.8 0.5 0.4 0.2 0.4 0.2	10.60 157.00 219.00 138.00 91.90 60.20 35.10 58.10 21.70	5 5 5 5 5 5 5 20	0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	22.5 32.7 33.6 34.1 31.5 29.6 18.2 26.9	7.63 8.49 7.72 7.06 6.27 7.61 3.21 6.22	17.3 2.86 1.89 3.1 4.31 5.75 2.01 7.56	0.45 0.45 0.38 0.21 0.37 0.65 0.84 0.17 0.38	0.29 0.35 0.33 0.62 1.17 1.95 0.65 0.89	0.15 2.12 3.86 1.81 0.88 0.7 0.62 1.15	130 180 120 240 310 260 130 230	472 577 770 847 128 117 368 579	300 100 20 150 50 150 20 250) 7.5) 11 24) 16 12) 15 24.) 25	5 3 1 4: 0 11 2 8: 6 58 6 74 5 14) 2: 0 11	2 11. 7 25. 5 1. 5 1. 5 1. 5 1. 5 3. 5 6. 7 4	8 3.5 .6 39 .8 90 7 59 4 51.5 .2 61.5 8 14 2 24 4 155	1.5 0.5 5.5 13.5 8 7.5 9 2.5 4.5	0.2 1.2 3.6 2.2 1.8 2.6 0.6 1	1 2 8 6 4 6 2 4	0.1 0.4 0.8 0.6 0.6 0.6 0.8 0.4 0.4	1 1.5 4 3.5 2.5 4 2 3.5 2.5	0.2 0.1 0.2 0.6 0.6 0.4 0.6 0.4 0.6 0.4 0.8	0.2 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 2	0.1 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.4 0.2	0.5 0 0.2 0 1 0 1.5 0 1.5 0 1.5 0 1 0 2 0	11 4 11 1 12 5 12 3 12 3 12 5 12 5 12 5 12 1 12 1	4.6 1.8 5.6 3.8 5.2 2.8 1.6	2 5 20 20 15 15 5 5 5	0.7 0.3 0.3 0.2 0.1 0.5 3 2.4
R406517 R406518 R406519 R406520 R406521 R406522 R406523 R406524 R406323	TAR12 TAR12 TAR12 TAR12 TAR12 TAR12 TAR12 TAR12 TAR12 TAR12 TAR13	4 6 6 8 8 10 10 12 12 16 20 24 24 25. 0 2	HH	192 125 46 44 140 150 214 104 189	732 456 160 80 228 156 166 72 96	0.8 6.24 3 0.39 1 0.31 1 0.55 2 0.37 2 0.48 3 0.61 2 14.7 2	42 32 15 14 24 21 35 23 28	38 29 12 13 27 35 68 38 23	10 6 4 14 12 36 10 30	49 34 12 6.5 22 17 16 10 15	5 3.2 1.4 1 1 0.8 1 0.6 0.6	3.5 3 4.5 4 2.5 2 29 6.5 1	42 25 10 14 9 19 14 12 7	2.4 2.2 3.6 2.4 3.6 2.8 2.2 1.6 0.8	38 26 20 10 18 16 44 24 382	6.6 4.4 1 0.3 0.3 0.2 0.1 0.1 0.05	2.75 2.75 3.50 2.85 2.15 2.95 6.25 5.75 3.60	0.3 0.2 0.2 0.5 0.7 1.2 0.8 0.05	31.70 33.80 18.30 23.10 66.40 112.00 191.00 110.00 10.60	30 20 10 5 5 5 5 5 5 5 5 5	0.6 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	17 17.9 30.8 37 30.4 28 29.8 34.1 20.1	6.12 6.05 7.81 6.63 6.56 7.26 6.66 6.3 1.67	30 16.6 6.55 2.4 9.59 6.76 6.29 3.12 2.97	0.62 0.49 0.7 0.49 0.6 0.5 0.51 0.21 0.11	0.61 0.64 0.55 0.65 0.94 1 1.29 0.53 3.3	0.52 0.56 0.29 0.55 0.66 1.37 2.21 1.7 0.25	220 210 310 160 140 100 120 110 70	348 332 289 186 119 108 143 179 344	950 500 150 100 50 20 100 100 900) 3() 22) 17) 15 11 72.) 10) 10) 13.	2 13 2 13 5 11 5 5. 5 3 3 45 1 46 5 6.	7 4., 5 3.; 5 1., 0 1., 5 1.; 7 7, 5 11, 5 12, 5 1.,	4 16.5 2 11 8 6.5 8 7.5 2 4.5 4 23.5 .8 44 .2 45 8 6.5	3 2 1 1.5 1 3.5 8 8 8.5 1.5	0.6 0.2 0.2 0.2 0.6 1.6 1.4 0.4	2 1 1 2 8 8 8 1	0.4 0.4 0.2 0.1 0.1 0.4 1.2 1 0.2	2.5 2 1.5 1 1.5 2 6.5 6 1.5	0.4 0.4 0.2 0.2 0.2 0.4 1 1 0.4	1.5 1 1 1 1 1 3 3 1	0.2 0.1 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.1	1.5 0 1 0 1.5 0 1 0 0.5 0 3 0 2.5 0 1 0	12 1 12 2 11 2 11 1 11 1 11 0 14 0 14 1 11	1.8 2.6 2.8 1.4 0.6 0.6 1.2 8	5 5 40 40 90 155 90	1.6 2.7 3.2 2.6 1.1 1.1 1.6 5.8 4.8
R406324 R406325 R406326 R406327 R406328 R406329	TAR13 TAR13 TAR13 TAR13 TAR13 TAR13 TAR13	2 4 4 6 8 10 10 24 24 32	HH HH HH HH HH HH HH HH	635 73 1030 708 1160 1100	286 10 220 194 132 208	2.48 1 0.42 1 3.59 4.55 1 3.42 3 5.82 4	12 12 9 10 34 43	34 5 84 49 69 58	60 4 76 56 88 44	34 3.5 11 16 12 9.5	1.4 0.4 1.2 1 1.4 0.8	1 0.5 0.5 0.5 0.5 1	17 9 14 7 9	1.2 0.8 0.2 1.6 0.4 0.6	572 28 650 420 1340 322	0.2 0.05 0.2 0.2 0.2 0.2 0.2	1.75 1.75 1.05 1.45 0.50 0.50	0.05 0.4 0.2 0.2 0.2 0.2 0.7	7.20 9.32 19.60 8.52 10.20 32.60	5 5 5 5 20	0.1 0.1 0.2 0.1 0.1 0.1	28.3 36.8 23.8 26.1 22.9 25	4.12 6.07 5.08 4.69 3.6 5.38	7.83 0.71 9.55 6.59 7.82 7.46	0.32 0.05 0.35 0.23 0.2 0.2	5.07 0.11 8.05 5.96 11.4 6.8	0.15 0.14 0.29 0.16 0.21 0.53	80 60 30 60 40 110	109 72 92 111 72 179	130 250 140 100 255 750	0 27. 1 21. 0 4 0 13 0 5.5 1 18	5 11 5 1 [°] 5 5. 8 1. 5 4. 8 8	5 3.1 7 3.1 5 1.4 4 3.1 5 1.1 5 1.1	8 14.5 8 13 4 6.5 2 13 2 5 2 9.5	i 3 2 2.5 1 2	1 0.6 0.6 1 0.4 0.8	4 2 4 2 2	0.6 0.4 0.6 0.8 0.4 0.4	3.5 2.5 3.5 4.5 2.5 3	0.8 0.6 0.8 1 0.6 0.6	2 2 3 1.5 2	0.4 0.2 0.4 0.4 0.2 0.2 0.4	2 0 1.5 0 2 0 2.5 0 1 0 2 0	1.2 1 1.2 () 1.4 1 1.4 3 1.2 7 1.2 1	1.6 D.6 1.8 3.8 7.4 1.2	40 25 2 20 40 235	1.6 0.3 0.8 1.8 2.4 1.4
R406319 R406320 R406321 R406322 R406476 R406477 R406477 R406479 R406480 R406481 R406481	TAR15 TAR15 TAR15 TAR15 TAR16	U 4 4 6 6 12 12 22 0 2 2 8 8 12 12 18 8 12 12 18 18 26 26 28 28 30	HH HH	203 255 985 2490 134 166 267 32 58 55 58 55 514	180 580 478 376 44 234 528 22 80 86 56 56	10.3 E 4.91 1 3.96 1 4.02 1 10.5 1 2.59 4 3.79 9 0.08 1 0.14 2 0.39 3 2.11 2	61 87 54 04 13 44 96 12 26 39 20	36 79 80 81 22 39 60 16 28 35 61	14 26 68 84 6 16 50 4 6 4 6 4 10	15 41 31 22 3.5 18 23 2.5 1.5 3 2.5 3 2.5	1 3 2.2 1.6 0.2 1.4 3 0.4 0.8 0.6 0.6	2 1.5 2 3 2.5 2.5 3.5 11 7 7	12 23 17 12 8 16 19 6 25 35 22 22	2 1 1.4 2 0.6 2.2 2.6 2.6 1.6 1.6 1.6 0.6	206 558 1210 1500 26 138 500 58 80 44 42 42	0.3 0.5 0.4 0.3 0.1 0.5 0.9 0.1 0.3 0.3 0.3	2.20 1.45 2.00 1.85 0.80 2.30 2.65 1.45 4.15 4.50 3.70	0.2 0.05 0.1 0.3 0.3 0.4 0.2 0.05 0.5 0.7 1	33.70 4.50 3.76 2.94 49.60 69.50 25.50 2.08 49.60 71.20 96.60	5 5 5 5 5 5 5 5 5 5 5 5 5	0.1 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	23.9 15.3 18.1 21.1 29.3 27.8 14.3 40.6 36.1 32.7 31.2	4.21 7.02 5.38 4.4 2.43 6.26 5.26 1.99 7.67 8.67 7.3	6.82 21.3 18.3 14.8 1.7 11.9 29.8 0.8 1.11 1.13 2.5	0.33 0.43 0.29 0.16 0.36 0.43 0.26 0.5 0.44 0.29	0.64 0.63 3.46 6.61 0.55 0.39 0.09 0.25 0.29 0.29 0.96	0.52 0.14 0.12 0.79 0.91 0.39 0.03 1.52 2.7 2.6	160 60 50 190 230 140 330 260 220 100	255 172 160 142 317 324 267 87 855 1530 1160	110 425 390 360 125 355 355 150 0 250 0 50	0 20 0 9.5 0 10 0 6 19 0 27 0 19. 0 4.5 0 56 0 10 59.	1 12 5 8. 7 8. 7 10 7 11 5 1. 5 3. 5 3. 3 4: 5 3.	.5 3. 5 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5 2. 5 3. 5 3. 5 3. 5 0. 5 0. 5 0. 5 0. 5 10. 3 6.	2 11.: 4 9 4 9.5 8 7.5 8 10 6 14 6 10 6 2 2 20.5 6 36 2 22.5 	3 2 1.5 2 3 2 0.2 5 3 6 5 3.5	0.6 0.6 0.4 0.4 0.6 0.6 0.1 0.8 1.4 1	1 2 2 1 2 2 1 2 1 2 4 2 4 2	0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.1 0.2 0.4 0.2	2 2 2.5 2 2.5 2.5 1 1.5 2 1	0.4 0.4 0.6 0.4 0.4 0.4 0.4 0.4 0.1 0.4 0.4 0.4 0.4 0.4 0.4 0.4	1 1.5 1.5 1.5 1.5 1.5 0.5 1 1 1 0.5 2 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0 5 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1	1 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1 U 1 U 1 U 0.2 U	12 2 11 (1) 12 (1) 12 (1) 12 (1) 12 (1) 11 (1) 11 (1) 11 (1)	2.4 1 0.4 0.6 2 1 5 0.6 1 0.6 1 0.8 1 	5 2 2 5 5 50 685 090 960 125	3 0.8 1.1 1.7 3.7 2.4 1.2 1.9 1.8 3.1 1 1
R406483 R406484 R406485 R406486 R406487 R406488 R406489 R406489	TAR17	0 2 2 6 8 10 10 16 16 24 24 30 30 31	HH HH HH HH HH HH HH HH HH	215 242 59 76 36 84 142 155	102 146 520 304 24 82 48 48 42	5.46 1 0.42 2 1.15 2 0.38 1 0.42 1 0.42 1 0.67 2 1.35 2	18 24 21 16 10 14 26 21	45 41 5 4 41 37 73 55	8 8 10 6 8 10 6	8 11 19 14 1 2 2 2.5	0.4 0.8 2 1 0.4 0.6 0.6 0.6 0.4	2 8 2.5 3.5 4 8 3 1.5	14 19 25 9 8 26 28 21	1.4 2 2.8 1.4 2.4 1.4 1.2 1	30 36 62 86 58 28 28 22 20	0.3 0.5 0.9 0.7 0.2 0.6 0.3 0.4	2.00 2.15 1.65 1.20 1.25 3.30 4.10 4.20	0.5 0.7 0.05 0.05 0.05 0.7 1.1 1.3	97.30 121.00 6.92 4.66 3.74 73.20 101.00 116.00	5 5 5 5 5 5 5 5 5	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	28.6 33.8 28.4 33.8 36.9 31.2 32.7 32.7	6.17 6.31 2.84 5.44 3.35 9.58 8.11 7.28	3.61 5.53 18.1 9.1 0.7 1.11 0.96 1.51	0.29 0.31 0.65 0.73 0.36 0.46 0.3 0.27	1.41 0.55 0.28 0.46 0.28 0.48 0.28 0.26 0.27	1.35 1.44 0.17 0.14 0.1 2.02 2.79 3.08	220 190 290 310 410 220 150 130	1320 498 1450 110 123 949 1440 1380) 150 200) 115 550 300 150) 150) 150) 42.) 38. 0 9) 4.5) 4.5) 94) 94) 15) 86	5 24 5 1: 7 5 3 5 2. 5 2. 4 8: 6 40	5 5. 3 4.1 1.3 5 0.3 5 0.1 3 9.1 0 16 5 9.3	8 24 6 18 8 8 8 3 6 2 6 33 6 55.5 8 35.5	4.5 3.5 1.5 0.5 4.5 4.5 6	1 0.8 0.4 0.1 0.1 1.2 2.2 1.6	4 1 1 1 4 6 4	0.6 0.6 0.4 0.1 0.1 0.6 0.8 0.8 0.6	3.5 3 2 1 2.5 3.5 2.5	0.8 0.6 0.4 0.1 0.1 0.4 0.6 0.6	2 2 1 0.5 1.5 2 1	0.4 0.2 0.2 0.1 0.1 0.1 0.1 0.2 0.1	2 0 2 0 1.5 0 1 0 1 0 1.5 0 1.5 0 1.5 0 1.5 0	1.4 0 1.4 0 1.2 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0	D.6 D.4 D.6 D.2 D.4 D.6 D.8 C.8	50 10 15 15 15 135 100 80	3.6 3.8 1.4 1.3 0.5 0.9 1.5 1.4
R406491 R406492 R406493 R406494 R406495 R406495 R406497 R406498 R406499	TAR18 TAR18	0 2 2 10 10 12 12 14 14 22 22 28 28 30 30 34 30 34	HH	109 99 105 203 149 183 304 362 464	44 106 376 88 78 70 54 62 42	16.5 1 0.46 1 0.14 1 0.17 0 0.15 1 0.12 0 0.32 1 0.77	14 16 9 10 15 7 13 8	20 26 18 48 20 34 73 100 46	4 6 8 6 8 10 20 10	4 6.5 21 4 5.5 5.5 3 4 3	0.1 0.6 1.6 1 1.6 1.4 1.2 1.4 1.2	2 8 13.5 3 5 4 3.5 1.5 4	11 17 29 5 7 5 6 13 8	1.2 2.2 4.2 1.4 0.8 1 0.4 0.6 0.4	14 36 70 46 48 68 88 58	0.2 0.3 1 0.3 0.2 0.05 0.05 0.05 0.05	1.40 1.95 3.20 1.75 2.90 2.55 2.35 2.35 1.80	0.4 0.3 1.2 2.1 2.2 2.9 2.4 2.5	54.90 59.20 44.20 105.00 158.00 169.00 253.00 179.00 203.00	5 5 5 5 5 5 5 5 5 5	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	22.2 37.2 32.3 33.5 33.6 34.7 33.4 33.9	2.98 4.76 3.58 5.92 8.46 6.9 7.43 6.66 7.25	1.5 3.76 15 2.53 2.31 2.89 2.24 2.78 2.05	0.18 0.26 0.4 0.23 0.23 0.22 0.23 0.18 0.18 0.2	0.63 0.46 0.34 1.17 0.82 0.51 0.78 1.17 1.15	0.89 0.87 0.57 2.01 2.67 3.45 3.98 3.16 3.29	140 170 220 140 150 140 160 140 160 140	681 548 303 308 435 524 504 653 391	50 250 175 250 50 150 50 150 20	38 0 28 0 18. 1 15 1 3 0 15 1 2 0 95. 66	3 2: 3 14 5 10 5 6 5 6 9 7: 7 6 5 47 5 34	2 5.1 5 3.4 5 2.1 1 1.4 4 14. 3 16. 5 1 5 7.1	6 20.5 4 12.5 6 9 6 6 .2 48.5 .2 54.5 .4 54.5 1 39 2 24	i 4 i 2.5 1.5 1 i 7.5 i 8.5 i 9 6.5 3.5	0.8 0.4 0.4 1.6 1.8 2.2 1.6 1.6 1.8	4 1 1 4 6 6 4 2	0.4 0.2 0.1 0.6 0.6 0.6 0.6 0.6 0.6 0.2	2.5 2 1.5 0.5 3.5 3 3 2.5 1.5	0.4 0.4 0.1 0.6 0.4 0.6 0.4 0.6 0.4 0.2	1.5 1 0.2 1.5 1 1.5 1 0.5	0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.1	1.5 0 1.5 0 1.5 0 1 0 1 0 1.5 0 0.5 0 1 0 0.5 0 0.5 0 0.5 0	11 12 11 11 11 11 11 11 11 11 11 11 11 1	1 1.4 0.8 0.4 2.8 0.2 0.6 0.6 0.6	35 20 15 25 105 60 20 30 55	4 1.6 0.6 0.8 1.1 0.6 0.2 0.5 0.5
R406500 R406501 R406502 R406503 R406504 B406505	TAR19 TAR19 TAR19 TAR19 TAR19 TAR19 TAR19	0 2 2 6 6 12 12 14 14 16 16 20		272 148 137 82 134 966	72 84 96 100 116 160	6.02 1 1.37 1 2.94 1 1.79 0 0.33 1 5.06 1	18 12 16 9 13 31	38 30 38 22 23 90	8 8 8 6 8 30	3.5 6 5 7 6	0.4 0.4 0.4 0.4 1	2 9 2.5 4 2 7	14 15 17 10 13 23	1.2 1.6 1.6 1.4 1.2	32 32 68 76 62 110	0.2 0.2 0.3 0.5 0.05	1.55 1.70 1.95 1.75 2.60 1.65	0.6 0.5 0.4 0.3 0.2 0.4	84.40 68.50 58.00 36.60 45.20 73.00	5 5 5 40	0.1 0.1 0.1 0.1 0.1 0.1	30.1 37.4 33.5 35.2 34.3 26.6	5.35 4.79 4.76 3.76 5.46 7.28	2.88 3.17 3.65 3.61 5.19 5.99	0.31 0.26 0.3 0.3 0.45 0.53	0.8 0.5 0.67 0.65 1.79 2.77	1.4 1.03 1.02 0.62 1.1	200 190 200 200 280 200	487 459 258 133 411 102(150 100 350 300 350) 44.) 26.) 41) 11.) 14.	5 23 5 14 2 5 7. 5 8 1 46	5 5. 5 3. 9 7. 5 1. 5 1.	8 22.5 2 12 2 26.5 4 4.5 4 5.5 8 45	i 4 2 i 4.5 1 1 85	1 0.4 1 0.2 0.2	4 1 4 1 1 6	0.6 0.2 0.6 0.1 0.1	3.5 2 3.5 1 1.5 4.5	0.6 0.4 0.8 0.2 0.4 0.8	2 1 2 0.5 1 25	0.2 0.1 0.2 0.1 0.1 0.1	2 0 1.5 0 2 0 1 0 1.5 0 25 0	1.2 1.1 () 1.4 () 1.1 () 1.2 () 1.4 ()	1 D.6 D.8 D.4 D.2 D.8	15 25 10 30 60 10	2.4 1.6 1.8 1.4 2.5 2.2

Regolith Characterisation & Geochemistry - Harris Greenstone Belt, Appendices

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244 4. 244 4. 56 2. 772 1 776 0. 176 0. 176 0. 176 0. 180 62 90 1. 90 0. 76 1. 90 0. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 128 1. 130 0. 164 2. 170 3 180 0. 180 0.	308 0. 308 0. 308 0. 42 2. 110 5. 326 4. 002 4. 68 1. 98 2. 000 0. 932 0. 932 0. 932 0. 930 1. 84 0. 930 1. 138 2. 930 1. 138 2. 930 1. 138 2. 98 0. 60 0. 616 0. 614 1. 128 1. 128 1. 128 0. 70 1. 122 3. 46 3. 88 0 40 0. 632 0.	54 1 54 1 62 0 60 0 52 0 53 0 78 0 60 0 60 0 52 0 78 0 60 0 78 0 78 0 78 0 60 0 64 9 112 0 66 0 66 0 66 0 66 0 66 0 68 0 62 0 642 0 62 0 62 0 63 0 64 0 62 0 64 0 62 0 63 0 64 0	acid 4-a 2-OES ICP- 2 0. ppm 5 V C
28 52 28 52 18 12 18 12 18 12 18 12 10 65 96 53 10 86 36 6 42 42 22 15 26 9 27 7 84 6 19 7 62 18 21 15 82 12 13 13 34 88 25 21 13 13 33 8 72 64 66 13 13 13 33 8 72 64 61 13 13 13 13 13 13 13 13 13 13 13 </td <td>$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$</td> <td>37 13 32 24 13 12 14 24 13 12 14 24 33 15 13 17 13 17 13 17 13 17 13 17 11 11 14 7 12 9 38 8 93 14 92 12 63 14 18 18 12 17 11 11 13 13 12 13 13 12 14 18 15 11 11 13 13 12 13 12 14 18 15 66 16 12 17 17 16</td> <td>acid 4-ac OES ICP-0 01 1 % ppm Ca Cu 22 18</td>	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	37 13 32 24 13 12 14 24 13 12 14 24 33 15 13 17 13 17 13 17 13 17 13 17 11 11 14 7 12 9 38 8 93 14 92 12 63 14 18 18 12 17 11 11 13 13 12 13 13 12 14 18 15 11 11 13 13 12 13 12 14 18 15 66 16 12 17 17 16	acid 4-ac OES ICP-0 01 1 % ppm Ca Cu 22 18
60 44 37 225 218 1252 66 57 30 24 23 16 29 99 99 99 99 99 99 99 99 99 99 99 99	17 48 75 75 55 41 19 300 15 19 300 35 57 33 39 26 26 26 26 36 36 22 62 26 36 39 29 29 29 29 29 29 29 29 29 29 29 29 29	30 30 31 27 33 32 35 400 50 38 355 221 200 38 355 221 200 38 39 46 40 39 46 45 30 30 30 30 30 30 30 30 30 30	id 4-aci ES ICP-01 1 n ppm Zn 93
52 8 8 6 14 1266 90 86 86 82 100 100 100 8 8 8 4 4 4 22 8 8 4 122 86 8 8 100 100 100 8 8 8 128 8 8 100 100 100 100 100 100 100 8 8 8 100 100	12 966 962 962 962 962 962 962 962 962 96	8 116 200 26 8 6 18 8 8 200 26 6 6 6 6 6 6 8 8 10 88 8 6 8 8 8 6 8 <t< td=""><td>d 4-aci S ICP-0 2 ppm Co</td></t<>	d 4-aci S ICP-0 2 ppm Co
$\begin{array}{c} 0.9\\ 3.8\\ 3.8\\ 3.8\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5$	$\begin{array}{c} 11\\ 11\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	44. 44. 38. 38. 59. 88. 38. 44. 22. 39. 99. 99. 99. 99. 59. 44. 33. 33. 33. 34. 44. 55. 55. 55. 44. 44. 55. 55	id 4-ac ES ICP-I 0.5 n ppi 0 A: 15
55 0.0 100 0.0 100 0.0 200 0.0 100 0.0 200 0.0 100 0.0 200 0.0 100 0.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	cid 4-ao MS ICP- 5 0.: m pp s St 5 0.:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	cid 4-a MS ICP- 2 0. m pp 5 V 2 14
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0.0 000 0.0 001 0.0 002 0.0 003 0.0 003 0.0 004 0.0 005	i i	id 4-a MS ICP- 0. m pp i B
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84 80 10 10 10 10 10 10 10 10 10 1	10 10 52 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	00 60 640 60 640 90 90 90 90 90 80 60 80 60 80 60 80 60 80 60 80 60 80 60 80 60 90 90 80 60 90 90 90 90 90 90 90 50 90 50 90 70 80 90	cid Fu -MS ICI D2 pm p b
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5.6 4.9 4.9 2.5 2.2 2.2 2.2 2.2 2.2 2.3 3.7 4.9 4.9 4.3 7.6 5.5 5.5 1.5 7.6 3.2 3.5 5.5 5.5 1.5 7.6 3.2 3.5 5.5 5.5 1.5 7.6 3.7 7.6 3.7 5.5 5.5 1.5 7.6 3.7 7.6 3.7 7.6 3.7 7.6 3.7 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 5.5 1.5 7.6 5.5 7.6 5.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	5.3 7.5 7.5 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7	27 49 49 49 40 40 40 40 40 40 40 40 40 40	sion 4 OES ICI 01 % Si 8.2
6.88 6.89 5.74 4.83 5.74 5.36 6.03 3.49 3.36 6.33 3.47 5.35 6.4 5.33 3.37 5.4 5.55 5.4 5.54 5.4 5.54 5.4 5.	$\begin{array}{c} 3.73\\ 6.79\\ 3.51\\ 2.59\\ 3.61\\ 3.61\\ 3.60\\ 2.47\\ 4.59\\ 5.09\\ 5.62\\ 5.702\\ 2.23\\ 1.66\\ 5.702\\ 2.23\\ 5.19\\ 5.59\\ 5.59\\ 5.59\\ 5.59\\ 5.59\\ 5.11\\ 5.55\\ 5.59\\ 5.11\\ 5.25\\ 5.15\\ 5.25\\ 5.16\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.25\\ 5.27\\ 5.25\\ 5.27\\ 5.27\\ 5.28\\ 5.2$	3,32 3,36 3,366 5,76 3,366 5,76 3,364 3,364 3,364 3,364 3,364 3,364 4,439 2,554 4,43 2,554 4,44 2,557 7,44 4,44 2,5577 7,44 4,5577 7,656 5,577 7,656 5,577 6,733 5,556 6,644 5,556 5,556	-acid P-OES II 0.01 % AI 4.49
8.8 2.36 2.35 5.74 8.48 8.46 8.48 7.5 2.42 2.26 3.33 2.42 2.26 3.33 2.42 2.26 3.33 2.42 2.26 3.33 2.42 2.26 2.43 2.44 2.268 2.48 2.268 2.44 2.268 2.48 2.268 2.44 2.468 2.29 11.4 4.688 7.69 4.6844 4.6844 4.6844 4.6844 4.68444 4.684444 4.684444444444	9.5 5.75 8.84 6.5 7.34 6.65 2.87 2.8 3.09 1.2 1.2 2.67 2.8 3.09 1.2 1.2 1.2 2.67 2.8 3.09 2.2 6.7 3.2 5.2 4.6 2.3 5.2 4.6 3.09 2.2 5.2 2.4 2.3 3.5 2.4 2.5 4.3 2.8 6 3.09 2.2 5.2 3.5 2.4 6 3.09 2.2 5.2 3.5 2.4 6 3.5 2.4 7.82 2.86 2.78 2.86 2.78 2.85 2.86 2.78 2.95 2.78 2.95 2.78 2.95 2.74 2.85 2.45 2.57 2.25 2.45 2.25 2.45 2.25 2.45 2.25 2.45 2.25 2.45 2.25 2.2	1 05 2 49 2 52 2 88 3 44 8 34 2 67 5 71 2 52 2 99 3 06 6 06 6 06 6 06 3 22 3 06 8 34 6 67 3 2 8 3 30 6 06 8 34 6 06 8 34 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8	Fusion CP-OES 0.01 % Fe 2.75
0.48 0.43 0.24 0.32 0.36 0.23 0.23 0.23 0.24 0.23 0.24 0.23 0.24 0.22 0.22 0.22 0.22 0.22 0.22 0.22	0.28 0.26 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23	0.18 0.26 0.29 0.29 0.22 0.29 0.22 0.29 0.22 0.31 0.29 0.31 0.33 1.66 0.33 1.66 0.33 1.66 0.33 0.34 0.33 0.47 0.77 0.17 0.3 0.3 0.34 0.33 0.47 0.33 0.34 0.33 0.47 0.33 0.34 0.33 0.47 0.33 0.34 0.33 0.47 0.33 0.34 0.33 0.47 0.33 0.34 0.33 0.47 0.33 0.34 0.34 0.34 0.34 0.34 0.34 0.34	Fusion ICP-0E 0.01 % Ti 0.25
$\begin{array}{c} 500\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\$	$\begin{array}{c} 0.50\\$	$\begin{smallmatrix} & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & $	Fusi 6 ICP-C 0.0 % %
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17 19 63 63 07 04 04 03 04 43 36 64 17 17 10 55 65 65 65 65 65 65 65 65 65	31 14 17 17 17 17 17 17 17 17 17 17	02 23 23 23 24 24 24 24 24 25 27 27 27 28 29 29 29 29 29 29 29 29 29 29	acid Fi OES IC 01 % J
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25 471 510 524 68 19 4 6 578 702 518 393 393 153 153 153 153 153 153 616 800 792 616 800 800 805 805 864 830 830 858 658 658 658 658 658 858 658 858 858	309 70 24 8 9 12 780 510 11 129 197 286 561 140 11830 1440 1435 561 1400 1430 443 368 686 686 686 686 686 686 466 3000 1470 952 92 92 92 92 92 92 92 92 92 94 9 94 9	226 597 630 488 630 488 485 574 758 657 11300 274 758 657 11270 918 397 558 558 558 558 558 558 558 558 558 55	4-acid CP-OES 1 ppm Ba 1570
450 50 100 1050 2900 2950 3150 2900 50 50 50 2000 2500 2500 2500 2500 1600 2500 1950 1950 1950 1950 1950 1950 2200 1950 2200 1950 2250 1950 250 250 250 250 250 250 250 2	1100 3300 2750 2450 2350 2850 50 200 200 200 1800 1800 1800 1800 1200 50 50 100 100 200 20 20 20 20 20 20 20 20 20 20 20	150 350 200 200 300 50 20 20 20 20 20 100 150 100 100 100 20 200 100 100 50 200 200 200 200 200 200 200 200 20	Fusion ICP-OES 50 ppm Cr 50
6 38 38 39 40 52 52 52 52 52 52 52 52 52 52	7,55 47 12 3 3 2,5 3 3 3 2,5 3 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	39 39 35 64 35 36 44 31 33 38 51 10 212 212 212 212 212 212 212 215 215 27 55 56 56 55 55 55 55 55 55 55 55 55 55	Fusion ICP-M9 0.5 ppm Ce 35.5
$\begin{array}{c} 2.5\\ 2.6\\ 17\\ 7.5\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 24.5\\ 2\\ 12.5\\ 3\\ 26\\ 22\\ 5\\ 22\\ 5\\ 3\\ 26\\ 22\\ 5\\ 12.5\\ 4\\ 4\\ 7\\ 7\\ 1.5\\ 12.5\\ 4\\ 4\\ 7\\ 7\\ 1.5\\ 12.5\\ 22.5\\ 11.5\\ 102\\ 522.5\\ 11.5\\ 11.5\\ 11.5\\ 11.5\\ 11.5\\ 11.5\\ 11.5\\ 11.5\\ 22.5\\ 21.5$	$\begin{array}{c} 5\\ 18.5\\ 5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 11.5\\ 6.5\\ 24.5\\ 35.5\\ 24.5\\ 35.5\\ 24.5\\ 14\\ 10.5\\ 95.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 52.5\\ 19.5\\ 35.5\\ 24.5\\ 14\\ 7.5\\ 3.5\\ 82.5\\ 10.5\\ $	$\begin{array}{c} 15\\ 20.5\\ 16\\ 30.5\\ 16\\ 30.5\\ 21\\ 42.5\\ 21\\ 42.5\\ 23.5\\ 34\\ 11.7\\ 17\\ 17\\ 23.5\\ 53.5\\ 102\\ 144\\ 20\\ 51.5\\ 102\\ 14\\ 20\\ 51.5\\ 102\\ 14\\ 20\\ 50\\ 51.5\\ 22.5\\ 20.5\\ 2$	Fusion ICP-MS 0.5 ppm La
$\begin{array}{c} 1\\ 5.4\\ 5.4\\ 1.6\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 1.2\\ 0.6\\ 0.2\\ 1.1\\ 0.6\\ 0.2\\ 1.2\\ 0.6\\ 0.2\\ 1.2\\ 0.8\\ 0.2\\ 0.8\\ 0.8\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6$	$\begin{array}{c} 1\\ 5.4\\ 5.4\\ 1.6\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4$	$\begin{array}{c} 1.8\\ 1.8\\ 1.8\\ 1.8\\ 1.8\\ 1.8\\ 1.8\\ 1.8\\$	Fusion ICP-MS 0.2 ppm Pr 4.8
$\begin{array}{r} 4.5\\ 5\\ 19\\ 115\\ 5\\ 5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 105\\ 8\\ 105\\ 8\\ 5\\ 11\\ 2\\ 2.5\\ 8\\ 105\\ 8\\ 4\\ 4\\ 22\\ 185\\ 8\\ 4\\ 4\\ 22\\ 185\\ 8\\ 4\\ 4\\ 7.5\\ 55\\ 5\\ 20\\ 1.5\\ 5.5\\ 20\\ 1.5\\ 5.5\\ 20\\ 1.5\\ 5.5\\ 20\\ 1.5\\ 5.5\\ 20\\ 1.5\\ 2.5\\ 20\\ 1.5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 2.5\\ 2$	$\begin{array}{c} 3\\ 3\\ 9\\ 8,5\\ 2\\ 2\\ 2\\ 2\\ 2\\ 5\\ 2\\ 2\\ 2\\ 5\\ 2\\ 2\\ 2\\ 5\\ 2\\ 2\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 6\\ 6\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 9\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 9\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 9\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	205 28 28 305 51.5 51.5 51.5 78 43.5 71 77 23 39 80.5 71 77 23 39 80.5 71 77 23 39 80.5 51.5 71 77 23 23 12.5 75 51.5 75 75 75 75 75 75	Fusion ICP-MS 0.5 ppm Nd
$\begin{array}{c} 1.5\\ 3.5\\ 2\\ 1\\ 1\\ 1.5\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 2\\ 1.5\\ 1\\ 1\\ 2\\ 1.5\\ 1\\ 1\\ 1.5\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 0.5\\ 0.5\\ 3.5\\ 3.5\\ 3.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0$	$\begin{array}{c} 4\\ 4\\ 6.5\\ 3\\ 3\\ 6.5\\ 3\\ 3\\ 5.5\\ 4\\ 8\\ 225\\ 13.5\\ 4\\ 8\\ 225\\ 13.5\\ 2.5\\ 13.5\\ 2.5\\ 2.5\\ 2.5\\ 3\\ 6\\ 2.5\\ 3\\ 6\\ 2.5\\ 3\\ 3\\ 6\\ 2.5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5$	Fusion ICP-MS 0.5 ppm Sm
0.4 1 1 1 1 1 1 1 1 1 1 0.5 0.4 0.6 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.1 1 0.6 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	0.8 1.4 0.8 1.2 0.6 1 2.2 5.8 4 0.6 1 2.2 5.8 4 0.6 1 2.2 3.4 0.6 1.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.8 0.4 0.6 1.2 0.8 0.4 0.6 1.2 0.8 0.8 0.8 0.8 0.8 0.8 0.4	Fusion ICP-MS 0.2 ppm Eu
$\begin{array}{c} 2\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 1\\ 1\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	4 6 2 6 8 2 4 6 12 1 1 1 1 2 6 7	Fusion ICP-MS 2 ppm Gd 4
$\begin{array}{c} 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.4 \\ 0.2 \\ 0.2 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.2 \\$	$\begin{array}{c} 0.1 \\ 0.4 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.6 \\ 0.1 \\ 0.4 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\$	$\begin{array}{c} 0.6\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.6\\ 1\\ 1\\ 0.4\\ 0.6\\ 1.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.4\\ 0.6\\ 0.4\\ 0.4\\ 0.4\\ 0.6\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4$	Fusion ICP-MS 0.2 ppm Tb
$\begin{array}{c} 3\\ 3\\ 2.5\\ 1.5\\ 1\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 3\\ 3\\ 5\\ 6\\ 2.5\\ 3.5\\ 5.5\\ 5.5\\ 5.5\\ 11\\ 9.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 3.3\\ 3\\ 3\\ 5.5\\ 6.5\\ 2\\ 2.5\\ 4\\ 4\\ 2.5\\ 3\\ 2\\ 2.5\\ 4\\ 4\\ 2.5\\ 2.5\\ 2\\ 2\\ 2\\ 3\\ 3\\ 2.5\\ 2.5\\ 2\\ 2\\ 3\\ 3\\ 2.5\\ 2.5\\ 2\\ 2\\ 3\\ 3\\ 3\\ 5\\ 5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.5\\ 1.$	Fusion 5 ICP-MS 0.5 ppm Dy
06 0.6 0.6 0.6 0.6 0.6 0.4 0.2 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.1 0.4 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.4 0.2 0.4 0.2 0.4 0.6 0.6 0.6 0.2 0.6 0.6 0.6 0.6 0.2 0.4 0.4 0.2 0.6 0.6 0.2 0.4 0.2 0.6 0.6 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.4 0.2 0.2 0.4 0.4 0.2 0.2 0.4 0.4 0.2 0.2 0.4 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0.6 0.8 0.6 1.2 0.4 0.4 0.6 1.2 2 1.8 0.2 0.2 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Fusion ICP-MS 0.2 ppm Ho
2 1.5 1 1.5 1 1 1.5 1 1 1.5 1 1 1.5 1 1 1.5 1 1 1.5 1 1 1.5 1 1.5 1.5	$\begin{array}{c} 0.5\\ 1\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 0.5\\ 2.5\\ 1.5\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 5\\ 5.5\\ 6\\ 5\\ 1\\ 1\\ 1\\ 5\\ 5.5\\ 6\\ 5\\ 1\\ 1\\ 1\\ 0.5\\ 2.5\\ 0.5\\ 1\\ 1\\ 0.5\\ 2.5\\ 0.5\\ 1\\ 1\\ 0.2\\ 2\\ 2\\ 3\\ 3\\ 1\\ 0.2\\ 3\\ 3\\ 3\\ 1\\ 0.2\\ 3\\ 3\\ 3\\ 1\\ 0.2\\ 3\\ 3\\ 3\\ 1\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5$	$\begin{array}{c} 1.5\\ 2.5\\ 2.5\\ 3\\ 1.5\\ 2.5\\ 3\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	Fusion ICP-MS 0.5 ppm Er 1.5
0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.4 0.4 0.8 0.6 0.1 0.1 0.1 0.2 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.4 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.2 0.4 0.2 0.2 0.2 0.4 0.2 0.2 0.4 0.2 0.2 0.4 0.2 0.2 0.4 0.4 0.2 0.2 0.4 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Fusion ICP-MS 0.2 ppm Tm 0.2
$\begin{array}{c} 1.5\\ 1.5\\ 1\\ 0.5\\ 1\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 0.5 \\ 0.5 \\ 0.5 \\ 1.5 \\ 1 \\ 0.5 \\ 1.5 \\ 1 \\ 0.5 \\ 1.5 \\ 1 \\ 1 \\ 0.5 \\ 1.5 \\ 1.5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 5 \\ 4 \\ 4 \\ 1.5 \\ 2 \\ 1 \\ 1 \\ 2.5 \\ 2 \\ 1 \\ 1 \\ 2.5 \\ 2 \\ 1 \\ 1 \\ 2.5 \\ 2 \\ 1 \\ 1 \\ 2.5 \\ 4 \\ 4 \\ 2.5 \\ 1 \\ 1 \\ 1.5 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} 1.5\\ 2.5\\ 1.5\\ 2.5\\ 1.5\\ 2.5\\ 3\\ 1.5\\ 1.5\\ 2\\ 3\\ 4\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 3.5\\ 3.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 5\\ 2\\ 3.5\\ 3.5\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1.5\\ 1\\ 1\\ 1\\ 2\\ 1.5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	Fusion ICP-MS I 0.5 ppm Yb 1.5
0.2 0.2 0.2 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	$\begin{array}{c} 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.6 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.1 \\ 0.4 \\ 0.2 \\ 0.2 \\ 0.4 \\$	02 04 02 02 04 02 02 04 02 02 02 02 04 06 06 01 01 02 02 04 06 01 01 02 02 04 04 02 04 04 02 02 04 04 02 02 04 04 01 02 02 04 02 02 04 02 02 02 04 02 02 02 02 02 04 02 02 02 02 02 02 02 02 02 02 02 02 02	Fusion CP-MS 0.2 ppm Lu 0.2
$\begin{array}{c} 0.2\\ 0.4\\ 0.8\\ 0.8\\ 0.8\\ 0.1\\ 0.4\\ 0.8\\ 0.4\\ 2\\ 0.6\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8$	$\begin{array}{c} 0.8\\ 0.1\\ 3\\ 0.1\\ 0.1\\ 0.4\\ 0.4\\ 0.2\\ 0.6\\ 0.4\\ 0.2\\ 0.2\\ 0.2\\ 0.4\\ 0.2\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.1\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.4\\ 0.1\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4\\ 0.4$	04 04 02 02 02 08 08 04 04 04 04 04 04 01 01 01 02 08 08 06 06 08 06 06 08 06 06 02 04 06 02 04 06 02 04 06 02 04 08 02 02 08 03 16 06 02 02 04 04 04 04 04 04 04 04 04 04 04 04 04	CN ICP-MS 0.2 ppb Au 0.8
$\begin{array}{c} 2 \\ 5 \\ 5 \\ 5 \\ 7 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	$\begin{array}{c} 5\\ 15\\ 10\\ 10\\ 2\\ 10\\ 10\\ 170\\ 550\\ 40\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 1$	$\begin{array}{c} 2\\ 2\\ 5\\ 5\\ 15\\ 5\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	CN ICP-MS I 5 ppb Ag 2
$\begin{array}{c} 1.3\\ 3.1\\ 0.7\\ 1.2\\ 0.3\\ 0.3\\ 0.4\\ 1.9\\ 1.3\\ 1.4\\ 1.2\\ 1.8\\ 1.3\\ 1.4\\ 1.2\\ 1.3\\ 1.4\\ 1.2\\ 1.3\\ 1.4\\ 1.2\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	$\begin{array}{c} 1.3\\ 1.4\\ 2.9\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.8\\ 0.4\\ 0.4\\ 0.5\\ 1.1\\ 1.5\\ 0.6\\ 0.8\\ 0.6\\ 0.8\\ 0.0\\ 0.3\\ 0.1\\ 1.5\\ 0.8\\ 0.8\\ 0.0\\ 0.3\\ 0.1\\ 0.7\\ 0.9\\ 0.2\\ 0.2\\ 0.2\\ 1.9\\ 0.2\\ 1.9\\ 0.2\\ 1.9\\ 0.2\\ 1.9\\ 0.2\\ 0.2\\ 1.9\\ 0.2\\ 1.9\\ 0.2\\ 0.2\\ 1.9\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2$	$\begin{array}{c} 23\\ 5,7\\ 1,7\\ 6,8\\ 32\\ 2,1\\ 4,1\\ 1,5\\ 0,6\\ 0,3\\ 32\\ 2,7\\ 1,5\\ 1,8\\ 2,2\\ 2,7\\ 1,7\\ 3\\ 2,6\\ 1,6\\ 2,9\\ 1,6\\ 2,6\\ 1,6\\ 2,9\\ 1,6\\ 1,6\\ 2,9\\ 1,6\\ 1,6\\ 2,9\\ 1,7\\ 1,1\\ 1,9\\ 2,2\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,9\\ 2,3\\ 1,7\\ 1,1\\ 1,7\\ 1,7\\ 1,7\\ 1,7\\ 1,7\\ 1,7$	CN CP-MS 0.1 ppm Cu 3.5

Dissolution				4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid	4-acid 4	-acid 4-ac	id 4-a	cid 4-ad	id 4-a	icid 4-ad	id Fu	sion 4-ac	id Fusio	n 4-acid	Fusion	Fusion	Fusion	4-acid	Fusion	4-acid	Fusion	Fusion F	usion F	usion Fu	sion Fusi	on Fusi	on Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	CN	CN	CN
Determination				ICP-OES	ICP-OES	ICP-OES I	CP-OES	ICP-OES	ICP-DES	ICP-MS	ICP-MS	ICP-MS I	CP-MS IC	P-MS ICP-I	MS ICP-	MS ICP-	MS ICF	MS ICP-	AS ICF	P-MS ICP-I	45 ICP-OI	S ICP-OES	ICP-OES	ICP-OES	ICP-OES	6 ICP-OES	ICP-MS	ICP-OES	ICP-OES	CP-MS IC	P-MS IC	P-MS ICF	-MS ICP-	VIS ICP-1	IS ICP-MS	ICP-MS	ICP-MS	ICP-MS	ICP-MS I	ICP-MS	ICP-MS I	CP-MS	ICP-MS	CP-MS I	ICP-MS
Detection		Depth		1	2	0.01	1	1	2	0.5	0.2	0.5	1	0.2 2	0.	1 0.0	5 0	.1 0.0	2 .	10 0.2	0.01	0.01	0.01	0.01	0.01	0.01	10	1	50	0.5	0.5	0.2 C	1.5 0.9	5 0.2	2	0.2	0.5	0.2	0.5	0.2	0.5	0.2	0.2	5	0.1
Unit	-	m m	•	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm ppi	n pp	m pp	n p	om ppr	n p	pm ppr	n %	~ ~	- % 	% T:	%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ppm	ppm	ppm	ppm	ppm	ppm p	pm pp	n ppr	n ppm	ppm TL	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm
FieldNo Di40coct	UH Name	From Io	Area	150	70	La	10	<u>∠n</u>		AS	55	W 1	10 PD	MO N 10 0/	B	1 U	- 0) <u></u>	on le	51	AI	1e	0.24	Mg	1.00	150	8a 710	11	10 E 1	La	Pr r	Nd Sr	n Eu	d	10	Dy	HO	1 5	Im	15	Lu	Au	Ag	
D 406261	KOK DD13	/ 4 / 0		72	70	4.64	0	43	0	5.5 E	0.4	1	16	1.2 24		2 1.3	5 0	4 00.7	0	5 U.I 5 0.1	23	5.38	2.63	0.24	0.34	1.22	100	667	200	10	12	2.6	20 3.3		4	0.6	1	0.5	0.5	0.2	0.5	0.2	0.4	- 2	1.5
P406262	KOK DD13	4 0 0 10		75	62	0.15	11	20	4	- 3	0.2	25	10	1.6 1/	0.	2 1.2	0 0	.4 43.3 1 14.0		5 0.1	30	2.63	2.34	0.22	0.44	0.29	190	262	400	0	5	3 0	15 0	5 0.4	1	0.1	1	0.1	0.5	0.1	0.5	0.1	0.4	5	2.6
B406264		18 24		249	92	0.19	15	88	112	25	0.4	2.3	12	1 164	, <u>0</u> .	2 1.2		05 21	4 4	40 01	321	5.8	4.57	0.34	2.41	0.23	90	79	1650	22	10	24 8	15 0.	0.1	1	0.1	1	0.1	0.5	0.1	0.5	0.1	0.4	2	1.9
B406265	KOK DD13	24 38	TH	817	64	1.49	11	42	108	0.5	0.1	1	3	0.6 261	0 0.	15 0.7	5 0	05 0.8	2	5 01	29.5	1.99	7.98	0.00	6.36	0.07	20	87	2400	5	3	0.6 2	5 0	5 0.1	1	0.2	0.5	0.2	0.0	0.1	0.0	0.1	0.1	2	0.9
R406266	KOK DD13	38 48	LH	603	60	6.1	6	37	86	1	0.1	1	3	0.2 191	0 0.0	05 0.2	0 0.	05 0.8	2	5 0.1	21	1.51	5.74	0.1	8,99	0.07	20	21	1900	3.5	1.5	0.6 2	.5 1	0.2	1	0.1	1	0.2	1	0.1	1	0.1	1	15	0.3
R406267	KOK DD13	48 62	LH	899	74	9.15	4	27	60	0.2	0.1	0.2	1	0.1 102	0.0	05 0.2	5 0.	05 1.8	6	5 0.1	16.9	1.96	4.35	0.13	12	0.07	20	43	1750	4.5	2	0.6	3 0.	5 0.2	1	0.1	1	0.2	0.5	0.1	0.5	0.1	0.1	5	0.8
R406268	KOK DD13	62 65	LH	713	128	5.35	4	52	86	0.2	0.1	0.2	3	0.1 102	0.0	05 0.1	5 0.	05 0.8	6	5 0.1	19.9	3.41	6.6	0.23	15.6	0.04	30	4	2750	2	0.5	0.4	2 0.9	5 0.1	1	0.1	1	0.2	1	0.1	0.5	0.1	0.1	2	0.7
R406310	KOK DD18	2 4	E	152	48	9.89	15	27	6	4	0.2	1	9	1 20	0.0	05 2.3	5 0	.2 41.1	0	5 0.1	24	2.73	1.71	0.17	0.54	1.05	130	289	200	28	14	3.6	4 2.	5 0.6	2	0.2	2	0.4	1	0.1	1	0.1	0.6	135	2.4
R406311	KOK DD18	4 6	LH	163	110	11.8	21	50	6	11	0.4	1	14	0.8 26	; 0.	2 4.8	0 0	.3 56.7	0	5 0.1	18.6	5.02	2.54	0.23	0.95	1.43	100	371	150	41.5	20.5	4.8 1	B.5 3	0.8	4	0.4	2.5	0.6	1.5	0.2	1.5	0.2	2.6	45	2.4
R406312	KOK DD18	6 10	LH	1180	120	1.26	14	39	14	11	0.4	1	21	2.8 24	0.	2 2.7	0 0	.5 60.9	90	5 0.1	35	4.27	2.8	0.23	0.58	1.53	170	691	50	63 3	20.5	5.2 1	B.5 3	0.8	4	0.4	2.5	0.4	1.5	0.1	1.5	0.1	0.4	150	
R406313	KUK DD18	10 22	LH	515	56	0.15	18	28	10	6	0.4	1	22	2.6 44	U.	1 1.8	5 0	.3 41.0	10	5 0.1	37.5	3.63	2.32	0.23	0.47	0.96	150	563	300	33.5	15.5	3.8	4 2.	5 U.E	2	0.4	2	0.4	1	0.1	1.5	0.2	0.4	200	2.5
R406314	KUK DD18	22 26		129	/8	0.16	14	13	6	4.5	0.6		20	2.2 26	i U.	1 2.3	5 U.	05 14.1	U	5 0.1	37.8	4.21	3.12	1	0.4	0.26	330	673	250	11.5	5	1.2	5 1.	0 U.E		0.4	2.5	0.6	1.5	0.4	2	0.4	0.4	225	2.2
H406315	KUK DD18	26 42 40 EC		32	34	0.12	4	24	4	1	0.2	1.5	13	0.8 8	0.0	1.8	5 U. 0 0	4 02.0	8	5 0.1	39.8	2.43	I.3	0.64	0.29	1.10	380	328	100	200	00 1	0.8 2	1.5 3.3 DE 10	0 1.2	4	0.6	3.5	0.6	2	0.2	2	0.4	0.8	40	0.3
P406316	KOK DD18	42 36 56 60		222	120	0.2	0	143	22	0.0	0.0	1.5	19	2 22	. 0.0	10 3.7		.4 02.3	00 .	0 U.I 10 0.1	20	0.02	0.42	1.40	0.36	2.10	230	1920	50	150	50 . CC	24.2 3 10 7	0.0 IO. 1.5 1/	0 0.4	10	2.4	10	2.2	5.0	0.0	4.5	0.0	1	25	0.7
B406318		60 65		1690	124	2.42	5	341	32	3	0.4	1	14	08 6	0.0	JJ J.2 15 2.7	5 0	5 84 5	00 in	5 01	20.0	6.57	8.82	1.33	2.07	1.76	220	1020	20	158	74	18.4	39 12	5 4.0	12	1.6	9	1.6	45	0.0	4.5	0.0	0.0	5	0.7
B406247	KOK DD24	0 4	LH	174	66	4.01	13	44	8	4.5	0.2	1.5	16	0.6 44	0.	2 1.0	5 0	.4 58.7	ñ	5 0.1	31.6	5.78	2.8	0.24	0.97	1.36	160	983	100	37 3	20.5	5	7 3.	5 0.8	4	0.4	2.5	0.6	1.5	0.2	1.5	0.2	1	5	3
R406248	KOK DD24	4 8	LH	87	116	0.42	8	20	4	8	0.6	2.5	23	1.2 24	0.	2 1.3	5 0	3 37.1	Ō	5 0.1	35.4	4.22	3.33	0.37	0.33	1.17	260	868	100	13.5	8.5	1.6	5 1	0.4	1	0.1	1	0.1	0.5	0.1	1	0.1	0.4	10	1.4
R406249	KOK DD24	8 12	LH	113	230	0.3	13	19	66	16	0.8	2	18	3.4 29	4 0.	3 2.5	0 0	.3 25.2	20	5 0.1	29.5	3.29	15	0.59	0.62	0.73	260	822	950	12	7	2	7 1.	5 0.4	. 1	0.2	1.5	0.4	1	0.1	1	0.2	1.2	10	2.9
R406250	KOK DD24	12 24	LH	671	124	0.81	44	49	128	1.5	0.1	1	11	1 109	10 0.0)5 1.4	0 0.	05 3.2	6	5 0.1	26.8	6.88	10.1	0.38	2.54	0.1	110	103	1700	24	4.5	1.4	5 1.	5 0.6	1	0.4	2	0.4	1.5	0.2	2	0.4	0.2	5	1.6
R406251	KOK DD24	24 36	LH	1510	178	2.07	31	96	148	1	0.1	1	4	0.4 151	0 0.	1 0.3	5 0.	05 1.8	2	5 0.2	20.6	5.03	11.2	0.33	10.6	0.07	50	142	3550	8.5	3.5	1.2	5 1.	5 0.6	1	0.4	2	0.4	1.5	0.2	1.5	0.2	3.8	2	0.6
R406252	KOK DD24	36 48	LH	936	124	3.31	56	80	92	0.2	0.1	1.5	4	0.2 173	10 0.	1 0.1	0 0.	05 0.6	8	5 0.1	22.1	3.36	8.5	0.21	12.6	0.05	30	36	2950	3	1	0.4	2 1	0.4	1	0.2	1.5	0.2	1	0.1	1	0.2	0.1	5	2
R406253	KOK DD24	48 54	LH	1370	92	6.52	25	66	88	1	0.1	1.5	5	0.4 120	10 0.	1 0.1	0 0.	05 0.5	6	5 0.2	17.2	2.14	6.48	0.14	13.7	0.03	20	14	2000	2.5	1	0.4 1	.5 0.9	5 0.2	1	0.1	1	0.2	0.5	0.1	0.5	0.1	0.1	15	4
R406254	KUK DD24	54 62		1150	102	4.1	31	80	76	0.5	0.1	2	4	0.2 120	<u>IO 0.</u>	1 0.1	0 0.	05 0.6	6	5 0.2	18.4	2.42	6.8	0.16	15.2	0.03	20	5	2150	2.5	1	0.4 1	.5 0.9	5 0.2	1	0.1	1	0.2	0.5	0.1	0.5	0.1	0.2	10	10.9
H406413	KUKI KOKI	0 2		131	46	1.39	10	38	<u>ь</u>	3	0.4	1.5	10	1.4 28	i U.	1 0.7	5 0	.5 55.5	10	5 0.1	38.1	4.19	2.06	0.21	0.53	1.8	140	550	300	32	10	4.4	17 3	0.8	2	0.4	15	0.4	1	0.1	1	0.1	0.6	- 10	- 2.1
D 400414	KOK1	4 0		162	124	1.33	F1	04 55	2160	0.5	0.4	4520	17	1.0 10		2 1.1	5 0	.0 00.3		5 0.1	30.2	4.33	4.52	0.20	0.41	1.30	210	050	200	12.5	0	4 I 1.4 F	4.0 Z.3	0.0		0.4	1.0	0.4	0.2	0.1	0.5	0.1	0.6	20	2.0
B406416	K0K1	8 12		57	162	0.40	24	54	- 2100	6	0.4	65	16	2.0 22 1.8 50	. 0.	2 1.0		4 37.6	0	5 01	331	6.02	4.32	0.32	0.23	1.00	180	720	400	12.5	7	12 4	5 1	0.2	1	0.1	15	0.1	1	0.1	1	0.1	0.0	20	34.5
B406417	КОК1	12 16	TH	171	204	0.4	54	46	16	13	0.0	15	26	1.2 10	. <u>0.</u> 8 0	3 23	n n	7 80.9	ĩ	5 01	29.7	6.23	7.89	0.40	0.00	2.73	190	1520	450	25.5	13	26	9 2	0.9	1	0.1	2	0.2	1	0.1	15	0.1	6.4	5	22
R406418	KOK1	16 20	LH	989	138	0.55	63	82	34	6	0.6	16	19	2.2 12	4 0.	2 3.8	ō ō	6 80.5	50	5 0.1	30.8	6.74	6,18	0.49	0.55	2.8	190	1950	400	63	30	6.6 2	5.5 4.9	5 1.2	4	0.6	3	0.6	2	0.2	2	0.4	1	10	2.6
R406419	KOK1	20 24	LH	1540	138	0.51	62	138	38	4	0.8	3	105	2.2 17	6 0.	2 3.4	5 0	4 55.3	30	5 0.1	30.5	6.73	5.94	0.48	1.01	1.31	170	733	400	72.5	30.5	9 3	5.5 8	1.6	6	0.8	4.5	0.8	2.5	0.4	2	0.4	1.8	10	2.2
R406428	KOK19	0 2	LH	287	72	2.62	20	70	10	4.5	0.2	21	15	0.6 20) 0.	2 1.2	5 0	.4 63.0)0	5 0.1	32.7	5.09	3.11	0.3	1.11	1.66	210	395	50	47.5	23	5.6	22 4	0.8	4	0.6	3.5	0.6	2	0.2	2	0.2	0.6	335	4.2
R406429	KOK19	2 8	LH	377	110	9.28	23	56	10	20	0.4	2	19	2.2 26	i 0.	2 2.7	0 0	.4 63.9	90	5 0.1	24.1	5.76	3.03	0.31	0.75	1.66	140	397	150	44.5	21	4.8 1	8.5 3.9	5 0.8	: 4	0.4	3	0.6	1.5	0.2	1.5	0.2	1	90	2.7
R406430	KOK19	8 14	LH	449	62	1.24	18	33	8	5	0.4	1.5	23	2.2 22	2 0.	2 2.4	0 0	.4 49.7	0	5 0.1	35.8	4.04	2.58	0.25	0.53	1.33	150	501	250	42.5	19	4.8	18 3.	5 0.8	2	0.4	2.5	0.4	1.5	0.1	1.5	0.2	1	100	2.4
R406431	KOK19	14 16	LH	441	60	0.16	12	44	10	3.5	0.2	19	25	1.4 32	2 0.	2 2.0	0 0	.3 48.3	30	5 0.1	36.1	4.18	2.82	0.28	0.65	1.3	180	469	50	41	20	5.2	20 4	0.8	4	0.6	3	0.6	1.5	0.2	1.5	0.2	0.4	70	1.3
R406432	KUK19	16 22	LH	288	126	0.14	16	36	10	8.5	0.8	6	29	4.6 40	I U.	3 2.6	0 0	.3 56.0	JU .	5 0.2	34.1	4.87	5.57	0.4	0.69	1.27	250	959	200	41	19.5	5	9 4	1	4	0.6	3.5	0.6	2	0.2	2	0.4	0.4	115	2.6
H406433	KUK19	22 30		147	34	0.11	7	- 11	4	2.5	0.4	4.5	20	Z.4 12	: U.	1 2.5	5 0	.1 /./	2	5 0.1	38.7	2.49	1.24	1.11	0.28	0.07	390	571	300	35.5	42	4 I 50 0	5.5 J.S DE A	0 1.2	4	0.6	4	0.8	2.5	0.4	2.5	0.4	1.5	225	1.6
D 406434	KOK19	24 20		55	20	0.00	12	16	4	25	0.2	25	11	0.0 D	0.	1 1.0	5 U. 5 O	00 3.7 E 240	0	5 0.1	30.4	0.10	1.22	1.1	0.10	0.07	240	011	150	124	4Z 50 ·	0.6 Z	0.0 4 50 11	F 27	4	1.4	4	1.4	2.5	0.4	2.5	0.2	0.6	190	1.7
P406433	KOK13	39 30		446	116	1	37	10	36	2.0	0.4	3.0	9	1.2 0	0.0	0 2.0	0 1	.0 24.2	00	5 0.1	25.0	7.59	5.57	1.1	1.16	2.25	230	1210	50	124	52.5	14.4 S	JO 11. DE 12	0 3.4 5 3.9	10	1.4	10.5	2	5.0	0.6	5.0	0.4	1	25	1.7
B406420	KOKIS	0 2		248	76	22	22	58	8	6	0.0	15	18	1.2 20		2 11	5 0	5 75.6	00 in	5 01	33.2	6.11	3.16	0.32	0.93	1.58	200	491	150	47.5	24	56 2	<u>15 4</u>	<u> </u>	4	0.6	3	<u> </u>	15	0.0	15	0.0	12	30	4.9
B406420	КОКЗ	2 4	TH	198	64	21	14	36	16	4	0.4	72	18	1 18	0.	2 12	5 0	5 618	ñ	5 01	32.9	5.35	2.99	0.02	0.66	1.56	180	743	50	48 3	45	5.6	21 4	0.8	4	0.0	25	0.0	1.5	0.2	1.5	0.2	1.4	10	2.8
R406422	КОКЗ	4 10	LH	101	86	0.69	17	35	6	7	0.6	2.5	16	2.2 24	0.	2 1.2	5 0	3 42.8	30	5 0.1	33.5	5.34	3.39	0.34	0.52	0.99	200	522	300	21	13.5	2.4	8 1.	5 0.2	1	0.2	1.5	0.2	1	0.1	1	0.1	1.4	5	2.1
R406423	КОКЗ	10 14	LH	36	58	0.29	11	11	4	4	0.6	2.5	13	2.4 28) 0.	1 1.4	5 0	.1 14.0)0	5 0.1	36.6	6.71	1.94	0.53	0.56	0.25	240	304	250	9	4.5	0.8 3	.5 1	0.2	: 1	0.1	1.5	0.2	1	0.1	1	0.1	0.8	2	1.3
R406424	KOK3	14 16	LH	55	94	0.28	9	30	6	3.5	1.2	5	24	7.2 10	0.	4 3.1	0 0	.3 49.3	30	5 0.1	32.5	5.38	1.32	1.45	0.49	0.74	350	761	200	13	5.5	1.2 5	.5 2	0.8	2	0.4	3	0.6	2.5	0.4	2.5	0.4	8.4	10	1.5
R406425	KOK3	16 24	LH	115	76	0.31	14	52	6	3	1	13	26	0.8 6	0.	4 4.9	5 0	.8 174.	00	5 0.1	30.1	11	1.92	0.8	0.77	2.67	320	1100	20	165	77.5	18.4	67 11.	5 3.2	10	1.4	7	1.4	4	0.6	3.5	0.4	1	5	0.6
R406426	КОКЗ	24 32	LH	129	26	0.19	22	43	2	2	0.6	2	33	0.6 8	0.	4 5.4	0 1	.4 209.	00	5 0.1	33.5	7.94	1.79	0.35	0.49	4.02	330	1450	50	188	86 :	21.4 7	9.5 19	i 3.6	12	1.8	10	1.8	5.5	0.8	5	0.8	3.2	10	0.9
R406427	KOK3	32 34	LH	283	74	0.46	57	137	20	4.5	1	3.5	14	1.6 64	↓ O.	3 6.8	0 1	.1 185.	00 2	20 0.1	31.4	6.77	3.48	0.47	0.83	3.1	230	921	150	191 1	37.5	22 8	6.5 16.	5 3.8	14	1.8	9.5	1.8	4.5	0.6	4	0.6	1.8	15	2.8

Regolith Characterisation & Geochemistry – Harris Greenstone Belt, Appendices

Dissolution Determination	Doeth		4-acid ICP-OES I	4-acid CP-OES	4-acid ICP-0ES	4-acid ICP-0ES	4-acid ICP-OES	4-aci	id 4-ac ES ICP-N	id 4-ad	id 4-acid MS ICP-MS	4-acid ICP-MS	4-acid 4 CP-MS IC	I-acid CP-MS I	4-acid 4 CP-MS 10	-acid 4 P-MS IC	-acid 4- P-MS ICF	acid Fu P-MS ICF	sion 4-a P-MS ICP-	cid Fus MS ICP-	ion 4-ad DES ICP-0	id Fu ES ICP	Ision F OES ICI	Usion P-OES	Fusion ICP-OES	4-acid ICP-OES	Fusion ICP-MS	4-acid ICP-OES	Fusion Fu ICP-OES ICI	ision Fu: P-MS ICP	sion Fusio P-MS ICP-N	IS ICP-MS	Fusion	n Fusion S ICP-MS	Fusion	Fusion F ICP-MS IC	usion I P-MS I	Fusion I CP-MS I	Fusion I CP-MS I	Fusion F CP-MS IC	usion Fu: P-MS ICF	sion Cl MS ICP	N CN MS ICP-M	ICN 45 ICP-1	I MS 1
Unit - FieldNo DH Name	m m From To	Area	ppm Mn	∠ ppm V	0.01 %	ppm Cu	ppm Zn	ppm Co	0.5) ppr	n ppi	: 0.5 m ppm	ppm Ph	0.2 ppm Mo	∠ ppm Ni	ppm Bi	ppm	UIU ppm p TI F	.02 pm p 35 9	pm pp Sn Ti	2 U. m 3 e 9	51 0.0 6 %	1 U	.01 % Fe	0.01 % Ti	0.01 % Ma	0.01 % K	ppm Zr	ppm Ba	ppm p	pm pj Ce l	pm ppm a Pr	n ppm Nd	D.5 ppm Sm	D.2 ppm Fu	ppm Gd	0.∠ ppm Th	0.5 ppm Du	0.2 ppm Ho	0.5 ppm Fr	0.2 ppm Tm	0.5 0 ppm p Yb '	.2 U. om pp u A	∠ o ob ppb u An	3 ppr 1 Ci	m
R406368 TAR42 R406369 TAR42	0 4 4 12	MW MW	125 183	58 132	17.1	17	24 44	6 10	6	0.2	2 2 4 5	8	1.8	24 28	0.1	2.00	0.2 36	5.10	5 0. 5 0.	1 19 1 30	.4 2.9 .1 6.2	9 2 1 4	.02	0.18	0.75	0.74	160 220	585 342	100 100 3	26 14 8.5 21	4.5 3.6 1.5 4.6	13	2.5	0.6	2	0.4	1.5 3	0.4	1.5	0.1	1 0 2 (.1 1	1 35 8 40	2.3	<u>i</u>
R406370 TAR42 R406371 TAR42	12 14 14 20	MW MW	88 74	582 466	0.13	49 79	24	8	370	0.8	3 62.5 8 33	15	3	14 28	1.4 0.6	5.95 1.20	0.2 18 0.05 10	3.00 · · · · · · · · · · · · · · · · · ·	10 0. 5 0.	1 29 1 27	.1 2.6 .8 4.3	5 1 3 1	8.3 5.7	0.47	0.39	0.32	140 80	311 42	150 (150	2	4 0.8 1 0.2	2.5	0.5	0.1	1	0.1	1	0.1	0.5	0.1	1 0 1 (.1 0.	6 70 1 15	3.9	3 4
R406372 TAR42 R406373 TAR42 R406274 TAR42	20 24 24 24 34 20	MW MW	155 1840 2270	326 260	0.18 3.68	87 171 107	204	90 50	250	J U.4 D 0.6	i 30.5 i 31.5 c 20.5	12 20 27	1.4	18 82	0.4	1.05	0.05 16 0.2 22	5.50 2.70 °	5 U. 10 O. 5 O	1 2 1 22	4 8.4 1 5.6 2 7.0	1 1 1 9 2 1	3.8	0.45	1.08 3.54	0.18	40 50	23 52 124	100	2 1 11 3	.5 0.4 1.5 1.2	5.5	2.5	0.1	4	0.1	7.5	1.8	0.5 6 2	0.1	1 U 5.5 C	.1 U. .8 O. 2 1	1 20 1 10	1.3	3
R406374 TAB42 R406375 TAB42 R406376 TAB42	38 44 44 46	MW MW	1450	284	4.61	106	170	46	72	0.4	5 <u>56.5</u> 4 7.5 6 6	13	0.6	02 70 70	0.4	0.35	0.6 73 0.1 27 0.3 76	7.10 5.90	5 0. 5 0. 5 0.	1 22	.3 7.0 .4 5.6 .6 7.1	3 1 9 1 1 8	0.1	0.47	2.43 3.64 3.68	0.85	50	32	100 1	2.5	1 0.4	3.5	1.5	0.6	2	0.4	4	1	3	0.4	2 0 3 0 3 (.2 .6 0. .4 1	2 10	0.2	2
R406360 TAR43 R406361 TAR43	0 4 4 12	MW MW	173 307	84 124	15.5 1.22	20 23	32 38	6 10	10	0.2	2 1.5 4 2.5	11 18	1.2	24 32	0.3	1.60 2.60	0.2 39	9.10 1.80	5 0. 5 0.	1 20 1 30	.9 3.6 .3 6.8	53 64	.09	0.22 0.43	0.85 0.86	0.86	140 240	580 484	100 3 150 5	4.5 20 2.5 2	0.5 5.2	19.5 19.5	4	0.8	4	0.6	3	0.6 0.6	2	0.2	1.5 0 2 (.2 1 .2 0.	1 250 6 200	J 2.6 J 2.5	3 5
R406362 TAR43 R406363 TAR43	12 14 14 16	MW MW	173 78	292 280	0.17	75	58	14	28	0.4	2.5 4 3.5	14	1.6	24 34	0.5	4.55 I	0.05 20).70 .84 ·	5 0. 10 0.	1 29	19 6.8	999 81	0.9	0.43	0.89	0.48	130 70	106 58	150 0	6.5 3 4 1	1.5 1 1.5 0.4	3	0.5	0.1	1	0.1	1	0.2	0.5	0.1	1 0 0.5 C	.1 0.	4 460 1 350	1 3.3 1 3	3
R406364 TAR43 R406365 TAR43 B406366 TAB43	16 22 22 28 28 32	MW MW	2430	362 266 268	0.49 3.59 4.49	137	84 164 134	24 178 42	8.5	5 0.2 1 0.2	$\frac{1.5}{2}$ 1 2 25	7	0.6	64 122 62	0.5	4.65 1.30	0.05 IU 0.1 8. 0.05 10	.02 1.90 ::	5 U. 5 O. 20 D	1 26 1 22 1 21	.5 5.8 .3 6.0 5 4.9	8 1 1 1 9 1	1.3 0.6 0.3	0.5	2.76	0.19	50 40 60	- 68 - 98 - 59	100 .	2.5 27 3 1	2 0.6 7 1.8 5 0.6	2.5 9.5	3.5	0.2	6	1.4	9	2	6.5	0.1	6.5 3 (. I U. 1 O. 4 O	.1 40 .4 35 .6 130	0.3	5 5 1
R406367 TAR43 R406525 TAR44	32 34 0 2	MW MW	1770	272	5.88	183	159	52	10	0.1	<u>i 0.5</u> 2 1	11 6	0.2	86 20	0.5	0.85	0.05 12	2.90	5 0. 5 0.	1 23 1 21	.5 6.4	7 1 5 2	1.3	0.53	4.07	0.28	50 150	54 483	100 3 100 2	3.5 1 2.5 1	.5 0.6 13 3.2	3.5	1.5	0.6	4 2	0.6	4.5	1	3.5	0.6	3 0 1.5 (.6 1.	6 215 8 170	<u>5 3.3</u> 0 2.4	3 4
R406526 TAR44 R406527 TAR44	2 8 8 12	MW MW	291 211	148 456	2.93 0.09	33 24	48 35	16 10	9.5 29	5 0.4 I 0.8	4 3 8 3.5	17 22	2 3.2	32 32	0.4 0.8	2.65 3.30	0.3 56 0.3 49	5.80 3.90	5 0. 5 0.	1 31 1 28	.2 6.0 .8 6.9	8 5 6 1	.12 4.4	0.36 0.63	0.88 0.58	1.1 0.82	190 310	459 297	100 4 200	0.5 2 22 1	23 5.6 13 2.6	22 9	4	0.8	4	0.6 0.2	3 2	0.6 0.4	2	0.2 0.1	2 0 1.5 (.4 2. .2 1	4 110 1 125) 2.4 5 3.9	4 9
R406528 TAR44 R406529 TAR44	12 14 14 16	MW MW	563 856	966 274	0.03	92 32	89 67	32	31	0.6 5 0.1	3 2.5 1 3.5	20 5	4	34 18	0.8	5.15 I 1.15 I	0.05 8	.24 .42	50. 50.	1 14 1 29	.4 6.2	63 19	1.35	0.86	0.25	0.14	210 210	83 260	100 50 2	7 2.5	3 0.8 1 0.4	3.5	0.2	0.4	1	0.1	1.5 0.5	0.2	0.2	0.1	1 0 0.5 C	.1 0.	4 170 4 60	1 1.6 1.2) 2
R406530 TAR44 R406531 TAR44 R406532 TAR44	24 38 38 42	MW MW	2200	314 382	0.34	98	236	96	9	, 0.1 0.1	1 <u>2.5</u> 2 3	10	5	52 54	1.1	8.55 3.15 I	0.2 21	.80	5 0. 5 0. 5 0.	1 25	.6 7.4 .5 6.8	4 1 4 1	1.2	1.8	1.03	0.10	220	624 81	20 1	1.5 195 1 42 16	09 20.2 6.5 6	2 76 29	17.5	5	18	2.4	14.5 6.5	2.8	8 3	1 0.4	6.5 C	.1 2. .8 0. .4 1	4 110 4 40) 2.5) 2) 0.5	·
R406533 TAR44 R406534 TAR44	42 44 44 46	MW MW	2440 1800	338 342	1.05 3.34	120 118	195 153	72	3	0.2	2 2.5 2 2.5	3 4	1.6 1.2	54 42	0.5	1.70 1.55 I	0.3 14 0.05 9	4.80 .86	5 0. 5 0.	1 2 1 23	4 6.8 1.6 7.2	9 1 1 1	2.3 1.1	1.9 1.68	1.83 2.05	0.24 0.27	220 200	112 66	20 50	36 10 34 1	0.5 4.8 12 4.8	22.5 24.5	7	2.4 2.6	8	1.2 1.2	8	1.4 1.4	4	0.6	4 0 3.5 (.4 0. .6 1	1 30 1 40	1.1	1
R406535 TAR44 R406536 TAR45	46 52.3 0 2	3 MW MW	1640 97	344 36	4.23	113	156	52	3.5	5 0.1	2 1 0.5	5	0.8	12	0.4	1.60	0.1 11 0.2 19	30	50. 50.	1 2 1 13	<u>3 6.7</u> 1.6 1.6	9 1 6 1	0.6	1.79 0.13	2.56	0.3	210	88 187	20 1	39 1 7.5 :	14 5.6 9 2.4	27.5	7.5	2.6	8	0.2	8 1.5	0.2	4	0.6	<u>4 0</u> <u>1 0</u>	. <u>6 0.</u> .1 2.	2 75 4 10	9.1	3
R406539 TAR45 R406538 TAR45 R406539 TAR45	4 8 8 12	MW MW	235	142 100	0.37	28	49	12	19	0.4 1 0.6 5 0.4	3 3 4 3	22	1.8	24 38 28	0.2	2.65	0.4 78	3.90 3.20	50. 50. 50.	1 28	7 0.4 19 9.2 16 7.5	4 3 9 4 6 3	.65	0.32	0.75	1.32	230	1230 335	150 4 150 4	6.5 2 59 3 8.5 1	32 7 18 3.4	24 24 11	4.5	1	4	0.6	3.5 3.5 2.5	0.8	2	0.2	2 0	.4 0. .4 2. .2 0.	6 40 6 40	1.9	3 3 7
R406540 TAR45 R406541 TAR45	12 26 26 28	MW MW	200 44	108 52	0.07	10 4	22 10	6	7.5	5 0.8 0.8	3 3 8 4.5	14 7	2.2 2.4	16 12	0.4	6.10 3.45 I	0.2 43 0.05 6	3.50 .02	5 0. 5 0.	1 35 1 35	.8 6.8 .7 8.2	7 3 8 3	.25	0.41 0.48	0.76 0.25	0.88 0.1	290 340	163 28	150 1 50	2.5 8 13	1.5 1.6 9 1.6	6 5.5	1.5	0.2	1	0.2	1.5	0.4	1 0.5	0.1	1.5 0 1 (.2 0.	6 140 8 355	J 1.8 5 0.3	3 3
R406542 TAR45 R406543 TAR45	28 46 46 64	MW MW	44 62	40 24	0.04	10	42	2	2.5	5 0.6	3 6 3.5	14 50	2	20 8	0.3	4.45 0.70	0.2 8	.68	5 0. 5 0.	1 36 1 34	15 5.9 15 6.9	1 0 8 0 7 0	1.63 1.68	0.52	0.17	0.13	430 230	89 284	200 7	15 1 9.5 5	15 2.2 54 12.4	7 4 41.5	7.5	0.4	6	0.4	2 4	0.4	1.5 2.5	0.2	1.5 0 2.5 C	.2 0.	.8 175 .6 310) 1.4) 0.6	4 5
R406544 TAR45 R406545 TAR45 B406546 TAB46	64 70 70 73 0 2	MW MW	113	40 30 42	0.22	3	29	4	9	1.4 0.6	+ 3 <u> 3 6.5</u> 2 3	24 21 13	1.6	12	0.05	8.65 6.60 4.20	1.4 18 1.2 15 0.4 55	2.00 5.00 5.20	5 U. 5 O. 5 O	1 3 1 33 1 23	4 8.3 1.6 7.7	7 0 1 0 4 1	.87 1.85 42	0.24 0.21 0.16	0.14	3.61	170	391 484	20 1	118 56	2.5 12.4 6.5 12.4 20 4.6	2 41.5 4 43.5 17	8	1	6 2	0.8	4 5.5 2	0.8	2.5	0.4	2 0 2.5 0 1.5 (.4 U. .4 U. 2 1	8 115 1 85 2 70	0.5)
R406547 TAR46 R406548 TAR46	2 4 4 12	MW MW	182 184	90 112	4.66	15	39	6	6.5	5 0.4	4 <u>5</u> 4 <u>3.5</u>	17 23	2	18 26	0.2	2.80	0.5 73	8.30 9.40	5 0. 5 0.	1 29	.9 5.4 .1 7.5	9 2 1 3	.91	0.28	0.57	1.44	200 220	384 337	50 150 7	49 2	25 5.6 7.5 8.4	20.5 29.5	3.5	0.8	4	0.6	3 3.5	0.6	1.5	0.2	1.5 0 2 (.2 0.	4 65	1.4 0 2	4
R406549 TAR46 R406550 TAR46	12 18 18 24	MW MW	990 205	50 242	5.58 0.12	10	31 25	8	3.5	0.4 5 0.4	4 2	18	2	12 20	0.2	6.70 7.20	0.6 98	3.60 5.70	5 0. 5 0.	1 23	.4 5.9 .3 6.8	9288	.12	0.23	4.51 1.24	1.86	160 240	262 107	20 6 50	7.5 3 62 3	33 8 37 8.2	28 31.5	6.5	0.8	4 6	0.6	3.5	0.6	2 4	0.2	2 0 4 (.4 2. .6 1.	8 120 2 55) 1.1 , 0.6	5
R406551 TAR46 R406552 TAR46 B406553 TAB47	24 26 26 36 0 2	MW MW	980 563 159	322 298 44	0.52	2	44 36 20	24 14	3	0.2	2 2.5 2 7.5 1 1	2	0.6	54 36 12	0.05	1.80 7.95 1.40	0.1 41 0.05 13 0.2 27	3.50 7.70	5 U. <u>5 O.</u> 5 O	1 2 1 26 1 29	3 7.4 6 7.5 5 22	2 1 3 9 4 1	1.3 1.66 78	1.74 1.55 0.16	4.03 3.62 0.55	0.36	260 230 190	27	50 1 100 50 2	67 30 15 11	4.5 17.4 0.5 8.4 1.5 3	4 72.5 32.5 10.5	7	3.4	14 6 1	1	13.5 7.5 1.5	2.6	7.5 4	1 0.6 0.1	6.5 <u>4</u> 0 1 (1 1. . <u>6 1.</u> 1 1	2 15 2 60 4 20	0.0	5 /5
R406554 TAR47 R406555 TAR47	2 4 6	MW MW	196 145	98 134	8.23	17	33	8	8	0.4	4 <u>1.5</u> 4 3	13 20	1.2	20 32	0.2	1.90	0.3 55	5.40	5 0. 5 0.	1 25	.8 5.4 .5 7.8	5 3 9 4	4.3	0.28	1.01	1.2	190 270	905 436	150 100 6	45 2	27 6.8 2.5 8	25.5	4.5	1 1.2	4 4	0.6	3 4	0.6	2	0.2	2 0	.2 1.	4 15	1.5	5 3
R406556 TAR47 R406557 TAR47	6 12 12 26	MW MW	341 36	92 24	0.14	21 5	57	8	8.5	0.4	1 2 3 3	15 11	1.6 0.2	24 16	0.3	2.60	0.3 65	5.30	5 0. 5 0.	1 35 1 35	.7 6.0 .1 8.2	9 3 1 0	3.3	0.36	0.72	1.17	260 330	281 90	150 20	42 1 32 13	18 3.8 3.5 2.8	13.5	2.5	0.6	2 4	0.4	2.5	0.4	1.5	0.2	1.5 0 4 0	.2 1	1 55 8 105	2.7 5 0.3	/3
R406558 TAR47 R406559 TAR48 R406560 TAR48	26 26. 0 2	/ MW MW	40 146 126	38	0.08 15.6 1.71	20	31 15 16	2 6 10	29	0.2	$\frac{1}{2}$ $\frac{3}{1.5}$	158 8 42	1.4 0.6	14 12 22	0.3	2.80	1.7 21 0.2 23 0.05 4	5.00 3.00 49	5 U. 5 O. 5 O	1 35 1 22 1 1	. <u>6 6.8</u> .5 2.2 2 57	5 1 9 3 7 2	.56	0.07	0.21	4.67 0.48 0.12	240 200 170	246 448 47	50 8 50 2	<u>523 2</u> 0.5 10	49 71.2 0.5 2.8	2 <u>236</u> 10	38	0.4	1	0.2	12.5	0.4	6 1 05	0.8	5.5 U 1 C	. <u>8 0.</u> .1 1. 1 0	<u>6 190</u> 8 30 6 15		<u>}</u>
R406561 TAR48 R406562 TAR48	6 8 8 12	MW MW	144	744 750	0.19	61 54	14	10	24	1.6	3 <u>3.5</u> 4 3	22	2.4 3.2	26 30	0.8	0.90	0.05 1. 0.05 1.	.76	5 0. 5 0.	1 16 1 13	1 9.0	2 2 3 2	6.5	1	0.13	0.05	150 190	58	300 2 250	2.5	1 0.4	1.5	0.2	0.1	1	0.1	0.2	0.1	0.2	0.1	0.2 0 0.5 (.1 0.	4 15	2.2	2
R406563 TAR48 R406564 TAR48	12 20 20 34	MW MW	182 309	572 142	0.09	104 92	31 77	12 10	25 4	i 1.4 0.6	4 6 3	17 50	3.6 3.6	46 26	0.6 0.2	1.20 4.80	0.05 5 0.2 49	.36 3.30	5 0. 5 0.	1 15 1 26	.9 11. .5 11.	6 2 8 6	21 .89	1.42 0.63	0.13 0.16	0.08 0.44	200 290	165 133	250 150 8	3 1.5 59	2 0.4 9.5 12.4	1.5 4 43	0.2	0.1	1	0.1	0.2 6.5	0.1 1.2	0.2 3	0.1 0.4	0.5 0 3 (.1 0. .4 0.	4 10 1 30	1.4 J 2.1	4 1
R406565 TAR48 R406566 TAR48 R406567 TAR48	34 48 48 50 50 52	MW MW	148 417 246	56 90 69	0.17	37	91 125 110	20	2.5	5 0.2 5 0.2	2 4.5	35 17 21	4.2	22 46 29	0.1	5.65 2.00 2.05	1.5 22 1.1 18 1.1 17	3.00	5 U. 5 O. 5 O	1 32 1 32 1 32	.2 8.6 .6 7.0 2 7	4 2 8 3	.19	0.22	0.23	3.3 1.93 2.53	130 150	399 466 443	20 1 150 7 20 1	107 47 2.5 3 140 6	7.5 12.0 34 8 30 15.0	5 45.5 28.5 5 55 5	10 5.5	1.2	10	0.6	11.5 3	0.6	1.5 1.5	0.2	6.5 1.5 1	1 U. .2 O. 2 O	1 105 8 55 6 45	, 1.5 , 0.6 , 0.0	6
R406568 TAR49 R406569 TAR49	0 2 8	MW MW	108 210	20	0.33	11 20	13	2	3	0.1	1 1 2 2	4 16	1 1	14 20	0.05	0.30	0.1 17	7.30	5 0. 5 0.	1 39 1 29	.3 1.2 .8 5.2	2 1 7	.06	0.13	0.12	0.38	240	128 490	350 9 50	3.5 5 44 2	i.5 1 24 6	4 23	0.5	0.1	1 4	0.1	0.5	0.0	0.2	0.1	0.2 0 1.5 0	.1 0.	4 35 8 15	0.0	/2
R406570 TAR49 R406571 TAR49	8 10 10 12	MW MW	131 123	148 106	0.09	24 16	43 33	8 14	11	0.4 5 0.4	4 2.5 4 3	20 16	1.8 1	20 18	0.4 0.3	2.90 6.00	0.4 65 0.3 68	5.50 3.50	5 0. 5 0.	1 35 1 33	.6 5.6 .8 6.6	9 4 4 3	.89	0.36	0.71 1.1	1.4 1.37	210 220	1170 381	200 50 2	29 1 1.5 12	17 3.4 2.5 2.4	12 7.5	2.5 1.5	0.6	2	0.4	2 1.5	0.4 0.4	1.5 1	0.1	1.5 0 1.5 (.2 1 .2 1	1 50 1 10	3 J 2.6	6
R406572 TAR49 R406573 TAR49 R406574 TAR49	12 16 16 18 19 26	MW MW	165 198 150	190 372 932	0.11	22 30	24	10	18	1.2	i 4 2 5 7	17 33 44	1.8 6 27.9	24 24 36	1.2	4.20 2.50 2.60	0.4 86 0.2 29 0.05 4	5.80 3.10 24	5 U. 5 O. 5 O	2 31 1 28 1 17	.7 7.6 .2 7.8	1 4 5 1 9 2	.91 2.7 16.1	0.5	1.04 0.89 0.23	1.55 0.57 0.11	370 420 240	300 142 44	100 250 400	18 1 13 5 7 2	13 1.8 1.5 1.4 25 0.9	5.5	1.5	0.2	1	0.2	2	0.4	1.5	0.2	1.5 U 1.5 U 1 C	.2 U. .4 1 1 11	8 20 1 10 8 30	2.6	<u>ز</u> 6
R406575 TAR49 R406576 TAR49	26 30 30 32	MW MW	46	172 58	0.04	51 22	10	6	12	0.4	4 4 4 1.5	11 10	9 3.8	18 8	0.4	1.80	0.05 3.	.02	5 0. 5 0.	1 36	4 4.5	6 5 8 1	.96	0.61	0.23	0.09	490	135 104	50 50 150 1	7.5 9.5 10	3 0.8 0.5 2.2	3	0.5	0.1	1	0.1	1.5 2.5	0.2	1 2	0.1	1.5 0 2.5 C	.2 0.	.6 30 .6 20	2.5	5 3
R406577 TAR49 R406578 TAR49	32 46 46 48	MW MW	48 45	124 80	0.04	22 24	28 34	4	3.5	5 1 0.6	4 6 1.5	71 45	2	22 12	0.4	4.50 3.90	0.4 76 1.1 15	6.60 0.00	5 0. 5 0.	1 28 1 31	.8 13. .6 8.9	4 1 7 0	1.1 1.74 I	0.6 0.36	0.13 0.15	2.31 4.35	300 220	931 1590	50 1 50 1	74 8 75 7	87 17.0 74 17.4	8 62.5 4 59	10.5	2.6 1.8	8	1 0.8	5.5 4.5	1 0.8	3 2	0.4	2.5 0 2 (.4 1. .4 3.	4 25 4 90	0.6	3
R406579 TAR49 R406387 TAR54 R406388 TAR54	48 49.9 0 6	MW MW	165 168 174	112 82 165	0.65	55 17 22	100 34 46	12 6 8	6.5	0.8 5 0.2	3 6.5 2 1.5 6 25	59 13 21	3.8	24 24 36	0.4	1.80	0.8 13 0.2 44 0.4 69	1.00	5 U. 5 O. 5 O	1 30 1 29 1 30	15 8 13 3.7 16 89	2 3 2 5	.53	0.39	0.3	3.81 0.85 0.96	230 230 320	1500 583 199	50 1 50 3 150 3	145 E 10.5 1 13.5 2	59 16 17 4 25 36	61.5 14.5	2.5	0.6	10 2 1	1.4 0.4	2	1.4 0.4	4.5 1.5	0.6	3.5 U 1.5 C 1.5 C	. <u>6 1/</u> .1 0. 2 0	<u>.6 105</u> 8 15 2 20	<u>, 2.6</u> 2	<u>)</u> 5
R406389 TAR54 R406390 TAR54	8 12 12 18	MW MW	145 161	130 262	0.04	21	39	8	10	0.6	3 4 8 18	17	2 2	32 48	0.5	2.35	0.4 63	8.10 6.70	5 0. 5 0.	1 31	.9 6.7 .8 7.0	2 5 5 9	.34	0.49	0.5	1 0.72	330 390	261 291	200 250	27 17 17 10	7.5 2.6	8	1.5	0.4	1	0.4	2	0.4	1.5	0.2	1.5 0 1.5 C	.2 0.	6 20 1 2	4.1	í 8
R406391 TAR54 R406392 TAR54	18 28 28 44	MW MW	2090 1230	102 98	1.12	41 33	65 59	102	5.5	5 0.8 0.8	3 1 3 0.2	3	0.4	1610 1130	0.05	1.05 0.30	0.05 2 0.05 1	.08	5 0. 5 0.	1 2 1 19	5 4.2 1.3 2.8	6 7 2 6	.94	0.27	8.95 12.6	0.12	40	44 13	2400 1 1850	1.5 4 2	7 1.6	6 3.5	1.5	0.4	1	0.2	2	0.4	1.5	0.1	1 0 1 (.1 0.	2 5	1.5	5 4
R406393 TAR54 R406394 TAR54 B406377 TAR55	44 50 50 62	MW MW	1340 1430 159	120 124 84	5.52 5.73	34 46 24	58	74	5.5 6 8.5	0.8 0.8	3 0.5 3 0.2 2 1	3 2 13	0.1	1130 1080 28	0.05	0.25	0.05 2 0.05 3 0.2 49	.12 .60	5 U. 5 O. 5 O	4 18 2 18 1 20	1 2.7 4 2.8	3 6	.45 .83	0.17	12.2 13 0.95	0.07	30 40 140	5 12 528	1750 : 1750 : 150 :	$\frac{3}{37}$ $\frac{1}{37}$.5 0.8 .5 0.4 22 5.6	2.5	0.5	0.4	1	0.2	1.5	0.4	1	0.1	$\frac{1}{1}$ 0 $\frac{1}{15}$ 0	.1 3. . <u>1 3.</u> 2 1	s 2 8 10 4 5	21.	2 .5 1
R406378 TAR55 R406379 TAR55	4 8 8 10	MW MW	257 332	130 90	0.24	26	50	10	12	0.4	4 <u>2.5</u> 4 <u>2</u>	22 15	1.4	40 34	0.4	2.20	0.4 76	5.40 1.20	5 0. 5 0.	1 28	1 5.8	3 5 3 3	5.2	0.51	0.83	1.26 0.99	250 240	160 701	100 200 4	62 3 5.5 27	30 6.6 7.5 7	22.5	4.5	1	4	0.6	3.5 4	0.8	2 2	0.4	2 0	.4 1.	8 10 2 25	1.8	3 9
R406380 TAR55 R406381 TAR55	10 12 12 22	MW MW	1850 919	212 752	1.05 0.19	18 70	30	18	38	0.4 0 1.2	1 5.5 2 28	22 27	1.2	40 44	0.5	3.10 1.95 I	0.3 64	4.40 .46	5 0. 5 0.	1 3	0 5.3	3 5 7 2	.49 8.5	0.4	2.54 0.33	1.36	260	228 84	150 600 3	57 1 7.5 3	16 3.4 3 1	12 3.5	0.5	0.4	2	0.4	2	0.6	1.5 0.5	0.2	1.5 0 1 0	.2 0.	1 2 2 10	0.5	і 9
R406382 TAR55 R406383 TAR55 B406384 TAR55	22 34 34 46 46 60	MW MW	5310 1290	270 258 190	0.13	184	86	56	2.5	5 0.8 0.4	3 0.5 4 1	5	0.8	142	0.2	0.55	0.1 1.	.44 .68 4 70	5 0. 5 0. 5 0	1 22	.9 9.9 15 9.7	1 1 6 1 7 9	2.1	0.67	0.26	0.06	100	134	400 1	15 4 3.5 1 3.5	.5 1.4 .5 0.6 5 2.2	3.5	1.5	0.6	1	0.4	3.5 2.5 7	0.8	1.5	0.4	2.5 0 1.5 0 4.5 (.4 0. .2 0. .6 0	1 35 1 20	2 2	2
R406385 TAR55 R406386 TAR55	60 68 68 78	MW MW	1240 3100	240 204	0.6 5.41	143 49	99 73	58 44	1.5	5 0.2 0.2	2 0.2 2 0.2	4	0.4	352 314	0.05	0.15	0.05 6 0.05 4	.66 .20	5 0. 5 0.	1 28 1 20	.5 6.4 .8 5.5	4 7 2 6	.86	0.43 0.38	5.71 8.13	0.17	50 60	59 37	700 (600	6.5 7 2	3 1 2.5 1.2	4.5	1.5	0.6	2	0.4	2.5 3.5	0.4	1.5 2	0.2	1.5 0 2 (.2 35	i.6 15 4 10	1.4 1 0.1	i 1
R406395 TAR56 R406396 TAR56	0 4 4 8	MW MW	174 218	64 118	4.4	19 24	27	6	4.5	5 0.4	4 1 4 2	12 19	1.4	24 48	0.2	1.45 2.55	0.3 49	9.10).60	5 0. 5 0.	1 35 1 2	15 3.9 7 7.5	5 2 3 4	.67	0.23	0.56	1.02	230 230	321 247	250 3 200	2.5 1 45 29	17 4.2 9.5 6.4	15.5 22.5	2.5	0.8	2 4	0.4	2.5 3.5	0.6	1.5	0.2	1.5 0 2 0	.1 0.	6 10 6 5	1.8	3
R406397 TAR56 R406398 TAR56 B406399 TAB56	8 10 10 14 14 16	MW MW	137 171 102	346 196	0.14	15	26	10	56	0.4 1	+ 2 6 85	14	3	36	0.3	2.70 2.75	0.3 55 0.2 56 0.05 9	5.60 . 5.30	20 0. 5 0. 20 0	1 31 1 31 1 29	4 5.2 .6 6.2	73 98 56	.96 .99	0.43	0.44	0.88	330	245 215	250 2	35 14 3.5 1	4.5 2.6 11 2.2 3 0.8	7.5	1.5	0.4	1	0.2	2.5	0.4	1.5	0.2	1.5 U 2 U 1.5 (.2 U. .2 D. 2 D	2 10	2.9	3
R406400 TAR56 R406401 TAR56	16 22 22 26	MW MW	163 374	510 256	0.05	37	16 89	8	42	0.2	2 <u>3.5</u> 1 1.5	9	2	62 158	0.2	1.10	0.05 1. 0.05 1.	.64	5 0. 5 0.	1 22	1 7.4	i 1 1 :	8.9	0.44	0.18	0.06	80	21 10	900 750 (2	1 0.2	1.5 3.5	0.2	0.1	1	0.1	0.2	0.1	0.2	0.1	0.2 0	.1 0.	2 2	1.3	3 5
R406402 TAR56 R406403 TAR56	26 34 34 36	MW MW	273 534	174 226	0.16	104	99 132	44	1.5	5 0.1 5 0.1	0.5	2	0.4	236 318	0.05	1.45 2.35	0.05 2	.76	5 0. 5 0.	1 23 1 2	.9 8.1 4 6.5	6 ·	0.6	0.5	1.01	0.12	70 60	36 29	700 (8.5 1 8.5 2	.5 0.6 28 8.2	2	0.5	0.1	1 10	0.1	1	0.1 2.4	0.5	0.1	0.5 0 5.5 C	.1 0.	1 15 1 10	2.1	1
R406404 TAR56 R406405 TAR57 B406406 TAB57	36 38 0 4 4 8	MW MW	393 126 381	60 132	0.77 17.9 2.67	108	21	6 16	4.5	5 0.2	<u> </u>	10 21	1 1 4	28 42	0.05	0.70 1.05 2.00	0.05 6 0.2 37 0.4 71	.08 7.40 1.40	5 U. 5 D. 5 D	1 25 1 2 1 28	0 2.9	4 9 7 2 1 4	.43	0.43	0.62	0.22	50 140 270	24 309 234	200 8	6.5 22 2.5 2 71 3	2.5 7.6 24 6 36 9	23	4.5	<u>3.6</u> 1 14	4	0.6	3.5	4 0.6 1	2	0.2	10 1.5 0 3	.6 0. .2 0. 4 0	6 10 6 10	<u> </u>	- 2 3
R406407 TAR57 R406408 TAR57	8 14 14 18	MW MW	159 114	130 210	0.39	20 19	30	12	12	0.4	1 <u>3.5</u> 6 <u>8.5</u>	14	1.4	46 46	0.4	2.75	0.2 50	.80	5 0. 5 0.	1 32	.9 6.1 .5 5.2	7 4 1 6	.66	0.57	0.95	1.04	320 360	408 423	250 2 350	5.5 1 8	15 3 3 0.8	11.5	2	0.4	2	0.4	3 1.5	0.4	1.5	0.2	2 0 1.5 (.2 0.	4 2 1 10	2.7 J 2.F	7 6
R406409 TAR57 R406410 TAR57	18 22 22 28	MW MW	288	310 396	0.09	67 231	153	28	18	0.6	<u> </u>	5 9	1	306 1480	0.2	2.25 I	0.05 1.	.68	5 0. 5 0.	1 31 4 19	.1 7.1	1 8 5 2	0.4	0.67	0.62	0.08	190 40	31 5	4900 9 6600 2	9.5 9.5 5.5 8	5 2.2	7.5	2	0.4	4	0.4	2 3.5	0.4	2	0.1	1 0 2 0	.1 0.	4 15	3 1.E	5
R406412 TAR57 R406599 TAR58	20 36 36 50 0 2	MW MW MW	950 121	194 112 58	0.41 1.59 11.3	39 15	212 25	94	6	0.2	<u>+ 1</u> <u>+ 0.5</u> 1 1	1 1 12	0.4	1390	0.05	0.20	0.00 1. 0.05 0. 0.2 40	.30 3 .78 .30	ου U. <u>5 O.</u> 5 O.	22 22 127	.7 3.9 .7 2.5 6 3.6	3 1 3 7 5	0.3 .91 2	0.22	14.6	0.13	40 10 220	ь 4 1090	4300 1 50 1	0.0 5 2 1 0.5 17	.a 1.2 1 0.4 7.5 4.4	6.5 1.5 17.5	0.2	0.6	2 1 2	0.4	3.0 1 2.5	0.8	2.0 0.5 1.5	0.4	2 0 0.5 0 1.5 0	.2 U. .1 2 .4 0	0 5 2 2 8 5	0.9	, 7
R406600 TAR58 R406601 TAR58	2 6 6 10	MW MW	233 147	126 150	2.8	23 21	48	10	9	0.4	1 2 5 4	16 18	1.6 2	32 40	0.3 0.5	2.45	0.4 67	7.60	5 0. 5 0.	1 31 1 31	.8 6.5 .4 8.0	7 4 7 5	4.2	0.37	0.79	1.37	250 260	623 179	200 5 150 3	2.5 26	6.5 6.2 9.5 3.4	24	4.5	0.8	4	0.6 0.4	3.5 2	0.6 0.4	2 1.5	0.2	2 0 1.5 (.4 0. .2 0.	4 25 4 10	1.6 1.6 1 2.5	3 5
R406602 TAR58 R406603 TAR58 R406604 TAR58	10 16 16 22	MW MW	177	200 292	0.12	17	35	12	22	0.6	i 4 3 13.5	15	1.6 3.2	58 86	0.5	3.10 2.05	0.3 78 0.05 10	3.30).10	5 0. 5 0.	1 30 1 27	.3 8.7 .6 8.3	6 5 5 8	15	0.57	1.01	1.5 0.23	340 410	255 110	200 350	25 1 14 ·	17 3 4 1.2	10	2	0.4	1	0.4	2	0.4	1.5 1.5	0.2	2 0 1.5 0	.4 0.	1 2 4 10	0.3	3 3 7
R406605 TAR58 R406606 TAR58	22 34 34 48 48 58	MW MW MW	30 145 301	74 132	0.03	14	9 18 102	4 6 38	5.5 5.5 13	5 U.E 5 5.4 1 7.6	9.5 4 7.5 6 4.5	8 27 69	2.0 0.8 1.6	30	0.6	4.75 1.40	0.05 4. 0.5 58 0.9 11	.30 3.00 6.00	5 U. 5 D. 5 N	1 38 1 34	.o 4.4 7 5.6 .5 70	5 1 6 1 6 3	.24	0.37	0.07 0.21 0.42	1.45	440 220 260	об 166 221	200 1 100 1 150 1	1.0 6 65 2 67 1	.a 1 98 95 35 334	3.5 342 5 126	60.5 23	0.2 13 4.2	34 16	0.2 3.8 2.2	2 17 12	2.2	1.5 6 6	0.2	2 0 4 0 5.5 r	.∠ U. .6 2. .8 ∩	4 100 6 150 4 175	, U.7) 0.4 5 1	4
R406607 TAR58 R406608 TAR58	58 62 62 71	MW MW	887 256	190 148	0.13	108	84 85	28	13 16	8	6.5 4 6	69 19	1.4	82 80	0.05	6.70	1 13 1.4 18	7.00	5 0. 5 0.	1 31 1 31	.2 8.6	1 5 7 4	.84	0.47	0.54 0.67	2.77	220 200	757 1450	50 1 100 1	42 74 156 80	4.5 18.0 0.5 <u>20</u> .0	3 71.5 2 76	12.5	3	10	1	6 7.5	1 1.2	2.5 3.5	0.4	2 0 3 (.4 0. .4 0.	2 215 4 <u>3</u> 5	j 2.3 j 0.f	3
R406609 TAR59 R406610 TAR59	0 2 6	MW MW	129 242	84 164	15.3	18 24	30 54	6 12	9	0.2	2 <u>1.5</u> 3 <u>3.5</u>	10 20	0.6	20 41	0.2	1.90 2.10	0.3 40).60 1.50	5 0. 5 0.	1 19 1 30	1.8 <u>3.9</u> 1.7 7.7	4 2 8 5	.17	0.21	1.11	0.84	160 240	782	20 100 150	30 16 56 29	6.5 <u>3.8</u> 9.5 6.6	15	2.5	0.6	2 4	0.4	2 3.5	0.4	1.5	0.2	1.5 0 2 C	.2 2.	6 5 2 2	2.4	4
R406612 TAR59	ь 10 10 18	MW MW	4// 529	132	0.14	3U 14 7	53 25	10	9.5	0.8	, 4 4 1.5	22	1.2	57 34 70	0.6	2.90 2.80	0.4 77	1.30	0 0. 5 0. 5 0.	1 30 1 28	12 7.9 11 5.7	o 5 8 3 2 0	.34	0.55	2.94	1.58	240	218	100 1 200 200	пъ 30 54 3 13 9	u.p 8 30 8 9 7	27.5	5.5	1.4	ь 4	0.8	9 4	0.8	3 2.5	0.4	3 0 2 C	.4 0. .4 1. .2 0	4 5	2.5	1

Dissolution Determination Detection Unit		Dep	th -	4-acid ICP-OES 1	4-acio ICP-OE 2	d 4-acid S ICP-OES 0.01 %	4-acid ICP-OES 1	4-acid ICP-OES 1	4-acid ICP-OES 2	4-acid ICP-MS 0.5	4-acid ICP-MS 0.2	4-acid i ICP-MS 0.5	4-acid ICP-MS 1	4-acid 4-a ICP-MS ICP 0.2	acid 4- P-MS ICF 2 (acid 4-ad P-MS ICP-).1 0.0 pm pp	nid 4-a MS ICP 5 0.	cid 4-a -MS ICF 1 0. pm p	acid Fu P-MS IC .02	usion 4-acid P-MS ICP-MS 10 0.2	Fusion CP-OES IC 0.01 %	4-acid CP-OES 0.01 %	Fusion ICP-OES 0.01 %	Fusion ICP-OES 0.01 %	Fusion ICP-0ES 0.01 %	4-acid ICP-OES 0.01 %	Fusion ICP-MS I 10	10	4-acid P-OES 1	4-acid Fusion CP-OES ICP-OES 1 50	4-acid Fusion Fusion CP-OES ICP-OES ICP-MS 1 50 0.5	4-acid Fusion Fusion Fusion CP-DES ICP-DES ICP-MS ICP-MS 1 50 0.5 0.5 ppm ppm ppm ppm	4-acid Fusion Fusion Fusion Fusion IP-0ES ICP-0ES ICP-MS ICP-MS 1 50 0.5 0.5 0.2 Dpm Dpm Dpm Dpm	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	4-acid Fusion Fusion<	
FieldNo R406614 R406615	DH Name TAR59 TAR59	From 26 40	To Are 40 MV 52 MV	a <u>Mn</u> V 148 V 319	84 144	Ca 0.06 0.07	Cu 7 46	Zn 20 109	2 12	As 2 2.5	Sb 1.8 0.6	2 2	Pb 15 33	Mo 1 1.2 4	Ni 0 34 0 42 (Bi U .05 2.8).1 4.1	5 0. 2	I F 2 25 2 18	яь 5.50 3.00	Sn Te 5 0.1 5 0.1	Si 30.4 29.1	Al 11.1 9.3	Fe 1.41 3.29	Ti 0.53 0.7	Mg 0.2 0.87	K 0.52 3.14	Zr 350 260	_	Ba 119 869	Ba Cr 119 250 869 100	Ba Cr Ce 119 250 226 869 100 336	Ba Cr Ce La 119 250 226 35 869 100 336 255	Ba Cr Ce La Pr 119 250 226 35 7.8 869 100 336 255 59.2	Ba Cr Ce La Pr Nd 119 250 226 35 7.8 25.5 869 100 336 255 55.2 195	Ba Cr Ce La Pr Nd Sm 119 250 226 35 7.8 25.5 4 869 100 336 255 59.2 195 30.5	Ba Cr Ce La Pr Nd Sm Eu 119 250 226 35 7.8 25.5 4 0.8 869 100 336 255 53.2 195 30.5 6.4	Ba Cr Ce La Pr Nd Sm Eu Gd 119 250 226 35 7.8 25.5 4 0.8 4 869 100 336 255 53.2 195 30.5 6.4 26	Ba Cr Ce La Pr Nd Sm Eu Gd Tb 119 250 226 35 7.8 25.5 4 0.8 4 0.6 869 100 336 255 53.2 195 30.5 6.4 26 3.4	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 869 100 336 255 53.2 135 30.5 6.4 26 3.4 16	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 869 100 336 255 53.2 135 30.5 6.4 26 3.4 16 3	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 869 100 336 255 53.2 135 30.5 6.4 26 3.4 16 3 7.5	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb Lu 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5 0.8	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Au 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5 0.8 0.1	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Au Ag 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5 0.8 0.1 25	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Au Ag 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5 0.8 0.1 25	Ba Cr Ce La Pr Nd Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Au Ag Cu 119 250 226 35 7.8 25.5 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 0.7 869 100 336 255 59.2 195 30.5 6.4 26 3.4 16 3 7.5 1 5 0.8 0.1 25 0.1	
R406616 R406617 R406618	TAR59 TAR59 TAR59	52 62 64	62 MV 64 MV 67 MV	/ 266 / 226 / 775	70 46 120	0.68	26 16 23	117 61 133	22 10 42	3 3.5 6	0.8	3 2.5 2	27 25 20	0.6	36 0 19 0 55 0	.05 3.3 .05 4.2 .05 2.7	50. 50. 01.	9 13 5 75 <u>1 15</u>	8.00 5.10 7.00	5 0.1 5 0.1 5 0.1	31.6 32.2 24.5	7.91 7.27 7.27	3.42 2.58 7	0.39 0.23 0.44	0.67 0.58 1.75	3.87 1.85 3.08	280 170 150	145 903 943	0 3 3	0 20 3 20 3 150	0 20 183 3 20 112 3 150 109	0 20 183 95 3 20 112 60.5 3 150 109 53.5 20 245 12	0 20 183 95 18.8 3 20 112 60.5 11.6 3 150 109 53.5 11.4 2 20 245 12 2	0 20 183 95 18.8 57.5 3 20 112 60.5 11.6 35 3 150 109 53.5 11.4 38 20 24 5 12 12 10	0 20 183 95 18.8 57.5 8.5 3 20 112 60.5 11.6 35 5 3 150 109 53.5 11.4 38 6.5 2 20 24.5 12 2 10 2	0 20 183 95 18.8 57.5 8.5 1.8 3 20 112 60.5 11.6 35 5 1.6 3 150 109 53.5 11.4 38 6.5 2 2 2 2 45 12 2 40 2 40	0 20 183 95 18.8 57.5 8.5 1.8 8 3 20 112 60.5 11.6 35 5 1.6 4 3 150 109 53.5 11.4 38 6.5 2 6 2 0 12 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	0 20 183 95 18.8 57.5 8.5 1.8 8 1 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 150 109 53.5 11.4 38 6.5 2 6 0.8 2 20 215 12 2 10 2 10 0 0 0	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 2 0 24.5 12 2 10 2 10 2 10 1 0 2 15	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 20 245 12 20 12 20 14 1 0.0 15 0.4	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 2 0 245 12 20 10 20 10 20 15 0.8 10 10 10 10 10 10 10 10 10 10 10 10 10	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3 0.8 2 0.2 2 0 2 15 0 0.5 0.4 1 0.2 15 0.4 1 0.1	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 2 0 245 12 2 0.2 10 0 0 1 1	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 0.4 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 0.2 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 0.2 2 0 2 15 0.2 1.5 0.2 1	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 0.4 0.1 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 0.2 3.4 2 0 0.4 1 0.0 15 0.4 1 0.1 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 0.4 0.1 60 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 0.2 3.4 45 2 0 2 15 0.2 10 2 0.1 1 0.2 15 0.2 1.5 0.2 3.4 45 2 0 2 15 0.2 10 2 0.1 1 0.2 15 0.2 1.5 0.2 3.4 5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 0.4 0.1 60 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 0.2 3.4 45 2 0.4 1 0.2 15 0.2 15 0.2 3.4 45 2 0.4 1 0.2 15 0.4 1 0.2 15 0.4 1 0.5 15 0.4 1 0.5 15 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	0 20 183 95 18.8 57.5 8.5 1.8 8 1 5 1 3 0.4 2.5 0.4 0.1 60 0.6 3 20 112 60.5 11.6 35 5 1.6 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.1 35 0.3 3 150 109 53.5 11.4 38 6.5 2 6 0.8 3.5 0.8 2 0.2 1.5 0.2 3.4 45 0. 2 0 2 1.5 0.2 3.4 45 0.	
R406620 R406621 R406622	TAR60 TAR60 TAR60	2 8 18	8 MV 18 MV 22 MV	V 208 V 161 V 413	132 128 450	3.63 3.97 0.11	19 15 11	51 40 23	10 8 10	7 9 14	2.6 0.6 4.2	3 3.5 2	21 15 27	1.6 (1.2 (3.6 (2	31 (36 (29 (0.4 2.2 0.4 1.8 0.3 4.3	0 0. 5 0. 5 0.	4 68 4 77 2 30	1.20 1.10 1.60 1.10	5 0.1 5 0.1 5 0.1	30 27 19.8	5.78 5.95 8.61	4.88 4.52 19.9	0.4 0.5 0.5	0.44	1.32 1.58 0.63	220 220 240 240	531 364 307		100 100 100	20 24.3 100 51 100 35 100 47	20 24.3 12 100 51 27.5 100 35 24.5 100 47 29.5	20 24.3 12 3 100 51 27.5 6.2 100 35 24.5 5.2 100 47 29.5 6.4	24.3 12 3 10 100 51 27.5 6.2 20.5 100 35 24.5 5.2 16.5 100 47 29.5 6.4 21	20 24.3 12 3 10 2 100 51 27.5 6.2 20.5 3.5 100 35 24.5 5.2 16.5 3 100 47 29.5 6.4 21 4	20 24.3 12 5 10 2 0.4 100 51 27.5 6.2 20.5 3.5 1 100 35 24.5 5.2 16.5 3 0.6 100 47 29.5 6.4 21 4 1	20 24.5 12 5 10 2 0.4 1 100 51 27.5 6.2 20.5 3.5 1 4 100 35 24.5 5.2 16.5 3 0.6 2 100 47 29.5 6.4 21 4 1 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20 24.5 12 3 16 2 0.4 1 0.2 1.3 0.4 1 0.1 100 51 27.5 6.2 20.5 3.5 1 4 0.6 3 0.6 1.5 0.2 100 35 24.5 5.2 16.5 3 0.6 2 0.4 2.5 0.6 1.5 0.2 100 47 29.5 6.4 21 4 1 4 0.6 3 0.6 1.5 0.2 100 47 29.5 6.4 21 4 1 4 0.6 3 0.6 1.5 0.2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20 24.3 12 13 16 12 16 14 16 1.3 0.4 1 0.1 0.1 0.1 0.1 0.1 0.0 13 100 51 27.5 6.2 20.5 3.5 1 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.6 70 100 35 24.5 5.2 16.5 3 0.6 2 0.4 2.5 0.6 1.5 0.2 1.5 0.2 0.6 40 100 47 29.5 6.4 21 4 1 4 0.6 3 0.6 1.5 0.2 1.5 0.1 0.1 70	20 24.3 12 13 16 14 16 13 16 15 16 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 17 16 16 16 16 16 17 16 16 16 16 17 16 17 16 16 16 17 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
R406623 R406624 R406625 R406625	TAR60 TAR60 TAR60	22 26 32	26 MV 32 MV 40 MV	/ 189 / 208 / 281	372 146 118	0.04 0.09 0.05 0.07	12 23 32	14 27 47	2 4 2	5.5 2.5 1.5	1.6 0.6 0.6	1.5 2.5 2	10 13 25	2.4 0.8 0.4	14 (24 0 35 0).1 1.9 .05 1.4 .05 1.3	00.0.0 50.50. 50.0	05 6. 1 15 2 21 6 91	.02 i.30 .30	5 0.1 5 0.1 5 0.1	21.8 26.2 28.3	8.15 11.9 10.8 7.64	18.5 7.3 6.14	0.6 0.77 0.49	0.17 0.21 0.17	0.16 0.36 0.61	180 190 220	357 367 377	50 100 20)	12 22.5 21	12 46 22.5 57.5 21 70.5	12 46 10 22.5 57.5 11.6 21 70.5 10.4 0.5 122 29.4	12 46 10 32.5 22.5 57.5 11.6 37.5 21 70.5 10.4 30 20.5 122 29.4 94	12 46 10 32.5 6 22.5 57.5 11.6 37.5 6.5 21 70.5 10.4 30 4.5 0 00.5 122 29.4 94 14.5	12 46 10 32.5 6 1.6) 22.5 57.5 11.6 37.5 6.5 2 21 70.5 10.4 30 4.5 1.4 90.5 132 9.4 9.4 145 4.4	12 46 10 32.5 6 1.6 6 0 22.5 57.5 11.6 37.5 6.5 2 6 21 70.5 10.4 30 4.5 1.4 4 905 122 29.4 94 145 4.4 12	12 46 10 32.5 6 1.6 6 0.8 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 21 70.5 10.4 30 4.5 1.4 4 0.6 90.5 122 29.4 244 145 4.4 12 14	12 46 10 32.5 6 1.6 6 0.8 4 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 21 70.5 10.4 30 4.5 1.4 4 0.6 2 90.6 132 29.4 94 14.5 1.4 12 1.4 6.5	12 46 10 32.5 6 1.6 6 0.8 4 0.8 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 90.6 132 294 94 144 14 14 6 2 0.4	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 90.6 132 294 94 144 14 14 2 2 2 5	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 905 132 294 94 145 44 14 14 5 1.2 2.0	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 1 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 1 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 0.5 90.6 132 294 94 14 14 2.6 1.2 2.6 0.6 2 0.4 1 0.1 0.5 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 <	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 1 0.1 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 1 0.1 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 0.5 0.1 905 132 294 94 14 14 14 25 1.2 25 0.6 2 0.4 1 0.1 0.5 0.1	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 1 0.1 0.4 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 1 0.1 0.2 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 0.5 0.1 0.1 0.1 90.6 132 29.4 94 144 1.4 1.4 2 0.6 2 0.4 1 0.1 0.5 0.1 0.1	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 1 0.1 0.4 20 0 22.5 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 1 0.1 0.2 30 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 0.5 0.1 0.1 115 90.6 132 294 94 144 1.4 1.4 2.5 1.2 2.5 0.6 3.0 0.1 0.1 115	12 46 10 32.5 6 1.6 6 0.8 4 0.8 1.5 0.2 1 0.1 0.4 20 0 225 57.5 11.6 37.5 6.5 2 6 0.6 3.5 0.6 1.5 0.1 1 0.1 0.2 30 21 70.5 10.4 30 4.5 1.4 4 0.6 2 0.4 1 0.1 0.5 0.1 11 115 905 132 294 94 145 1.4 4 0.6 2 0.4 1 0.1 0.5 0.1 11 115 905 132 294 94 145 14 12 24 12 25 05 2 0.4 0.1 0.5 0.1 0.1 115	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
R406627 R406628 R406629	TAR60 TAR60 TAR60 TAR60	52 62 72	62 MV 72 MV 80 MV	V 202 V 204 V 92 V 234	140 56 98	0.07 0.26 0.35 0.68	48 23 27	256 96 102	44 20 38	2.5 5 3 2.5	1.4 1.4 1.8 0.8	1.5 2.5 1	42 32 13	0.6 (0.6 (0.4 5	00 0 38 0 50 0	.05 1.2 .05 1.8 .05 1.2	5 1. 5 0. 5 0.	0 01 1 18 8 10 7 98	7.00 8.00 8.40	5 0.1 5 0.1 5 0.1	27.6 30.1 31.3	7.64 8.76 7.81 7.54	7.65 3 5.21	0.4 0.62 0.24 0.34	0.38 1.37 0.58 1.05	2.53 3.48 3.02	190 160 140	743 1690 1180	100 100 150 20		523 124 70.5	50.5 135 523 571 124 58.5 70.5 36.5	50.5 135 23.4 523 571 135 124 58.5 11.6 70.5 36.5 8	50.5 135 23.4 34 523 571 135 454 124 58.5 11.6 38 70.5 36.5 8 27.5	523 571 135 454 70 124 58.5 11.6 38 5.5 70.5 36.5 8 27.5 4.5	503 135 23.4 34 14.5 4.4 523 571 135 454 70 19.8 124 58.5 11.6 38 5.5 1.8 70.5 36.5 8 27.5 4.5 1.4	503 133 23,4 34 14,3 4,4 12 523 571 135 454 70 19,8 52 124 58,5 11,6 38 5,5 1,8 4 70.5 36,5 8 27,5 4,5 1,4 4	503 133 234 54 14.3 4.4 12 1.4 523 571 135 454 70 19.8 52 6.4 124 585 11.6 38 55 1.8 4 0.6 70.5 36.5 8 27.5 4.5 1.4 4 0.6	503 133 234 54 14.5 4.4 12 1.4 6.5 523 571 135 454 70 19.8 52 6.4 29.5 124 585 11.6 38 5.5 1.8 4 0.6 3.5 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5	503 133 234 54 143 4.4 12 1.4 6.5 1.2 523 571 135 454 70 19.8 52 6.4 29.5 5.8 124 585 11.6 38 5.5 1.8 4 0.6 3.5 0.8 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6	503 133 234 54 143 4.4 12 1.4 6.5 1.2 3.5 523 571 135 454 70 19.8 52 6.4 29.5 5.8 15.5 124 585 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5	503 133 234 34 143 44 12 1.4 6.3 1.2 33 0.6 523 571 135 454 70 13.8 52 6.4 29.5 5.8 15.5 2 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1	503 133 234 34 143 4.4 12 1.4 6.5 1.2 3.5 0.6 3 523 571 135 454 70 19.8 52 6.4 29.5 5.8 15.5 2 12 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 2 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1	503 133 234 34 143 144 12 1.4 6.5 1.2 35 0.6 3 0.4 523 571 135 454 70 138 52 6.4 29.5 5.8 15.5 2 12 1.8 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 2 0.4 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1 0.1	503 133 234 34 143 144 12 1.4 6.5 1.2 35 0.6 3 0.4 0.1 523 571 135 454 70 19.8 52 6.4 29.5 5.8 15.5 2 12 1.8 0.1 124 58.5 11.6 38 5.5 1.8 4 0.6 35 0.8 2.5 0.4 2 0.4 0.1 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1 0.1 0.4	503 135 234 34 143 144 12 144 63 1.2 1.35 0.65 3 0.44 0.1 320 523 571 135 454 70 19.8 52 6.4 29.5 5.8 15.5 2 12 1.8 0.1 40 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 0.1 20 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1 0.4 0.1	503 135 234 34 14.5 4.4 12 1.4 6.5 1.2 3.5 0.6 3 0.4 0.1 320 523 571 135 454 70 19.8 52 6.4 29.5 5.8 15.5 2 12 1.8 0.1 40 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 2 0.4 0.1 20 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1 0.4 15	503 133 234 34 143 144 12 144 0.3 1.2 3.3 0.6 3 0.4 0.1 320 0.1 523 571 135 454 70 13.8 52 6.4 29.5 5.8 15.5 2 12 1.8 0.1 40 1.7 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 2.1 4 0.1 40 1.7 124 58.5 11.6 38 5.5 1.8 4 0.6 3.5 0.8 2.5 0.4 2 0.4 0.1 40 1.7 70.5 36.5 8 27.5 4.5 1.4 4 0.6 2.5 0.6 1.5 0.1 1 0.4 0.4 1.7	
R406630 R406631 R406632 B406633	TAR61 TAR61 TAR61 TAR61	0 4 6 8	4 MV 6 MV 8 MV 12 MV	/ 160 / 289 / 156 / 142	80 108 146 186	9.21 4.45 0.12 0.17	16 28 23 14	29 44 50 42	6 12 12 8	17 5 7 13	0.4	2.5 2.5 3.5 3	15 20 36 16	1 2 1.8 4 1.4 4 2 2	25 (46 (42 (34 ().2 2.2).4 2.7).4 3.7).4 3.7	50. 000. 000. 500.	3 51 4 66 6 88 4 87	.40 3.00 3.50 7.90	5 0.1 5 0.1 5 0.1 5 0.1	25.1 28.4 29.7 30.5	4.26 7.12 8.37 7.79	2.85 3.98 4.69 4.9	0.26 0.47 0.53 0.55	0.78 0.73 1.27 1.14	1.11 1.24 1.78 1.78	210 260 240 300	580 224 217 279	50 200 100 100		40.5 58 45 30	40.5 22.5 58 36.5 45 23.5 30 21	40.5 22.5 5.6 58 36.5 9.2 45 23.5 5 30 21 3.8	40.5 22.5 5.6 19.5 58 36.5 9.2 32 45 23.5 5 15.5 30 21 38 12	40.5 22.5 5.6 19.5 4 58 36.5 9.2 32 6 45 23.5 5 15.5 3 30 21 38 12 25	40.5 22.5 5.6 19.5 4 0.8 58 36.5 9.2 32 6 1.4 45 23.5 5 15.5 3 0.8 30 21 38 12 25 0.6	40.5 22.5 5.6 19.5 4 0.8 4 58 36.5 9.2 32 6 1.4 6 45 23.5 5 15.5 3 0.8 2 30 21 38 12 25 0.6 2	40.5 22.5 5.6 19.5 4 0.8 4 0.6 58 36.5 9.2 32 6 1.4 6 0.8 45 23.5 5 15.5 3 0.8 2 0.4 30 21 3.8 12 2.5 0.6 2 0.4	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 58 36.5 9.2 32 6 1.4 6 0.8 4.5 45 23.5 5 15.5 3 0.8 2 0.4 3 30 21 38 12 25 0.6 2 0.4 25	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 30 21 3.8 12 2.5 0.6 2 0.4 2.5 0.6	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 30 21 38 12 25 0.6 2 0.4 25 0.6 15	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 30 21 38 12 25 0.6 2 0.4 25 0.6 1.5 0.2	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 30 21 38 12 25 0.6 2 0.4 25 0.6 1.5 0.2 2	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 0.2 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 0.4 30 21 38 12 25 0.6 2 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.6 1.5 0.2 2 0.4 2.5 0.6 1.5 0.2 2 0.4	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 0.2 0.8 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 0.4 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 0.4 0.1 30 21 38 12 25 0.6 2 0.6 1.5 0.2 2 0.4 0.1	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 0.2 0.8 5 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 2 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 0.4 0.1 5 30 21 3.8 12 2.5 0.6 1.5 0.2 2 0.4 0.1 10	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 0.2 0.8 5 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.4 0.4 2 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 0.4 0.1 5 30 21 38 12 25 0.6 2 0.6 15 0.2 2 0.4 0.1 10	40.5 22.5 5.6 19.5 4 0.8 4 0.6 3 0.6 2 0.2 1.5 0.2 0.8 5 2.3 58 36.5 9.2 32 6 1.4 6 0.8 4.5 1 2.5 0.4 2.4 0.4 2 1.5 45 23.5 5 15.5 3 0.8 2 0.4 3 0.6 2 0.2 2 0.4 0.1 5 2.5 30 21 38 12 2.5 0.6 2 0.6 1.5 0.2 2 0.4 0.1 10 1	
R406634 R406635 R406636	TAR61 TAR61 TAR61	12 20 22	20 MV 22 MV 28 MV	/ 820 / 1420 / 334	128 86 82	1.15 0.52 0.05	12 16 23	45 28 38	28 22 4	8.5 4 3	0.6	2.5 8.5 5	28 24 15	2 4 3.2 2 1.6	43 (24 0 14 0	0.3 3.1 .05 1.7 .05 1.3	0 0. 5 0. 0 0.	5 84 5 32 5 62	1.00 2.30 2.60	5 0.1 5 0.1 5 0.1	28.4 34.1 31.1	8.89 6.58 8.07	4.29 3.75 4.99	0.48 0.5 0.55	1.14 0.52 0.27	1.85 0.69 1.61	300 230 290	252 383 854	50 250 200	11 67 76	5	5 47 43.5 39.5	5 47 12.4 7 43.5 9.4 6 39.5 8	5 47 12.4 42 7 43.5 9.4 30.5 3 39.5 8 25	5 47 12.4 42 8 7 43.5 9.4 30.5 5 6 39.5 8 25 3.5	5 47 12.4 42 8 1.8 7 43.5 9.4 30.5 5 1.4 6 39.5 8 25 3.5 1	5 47 12,4 42 8 1.8 6 7 43.5 9.4 30.5 5 1.4 4 6 39.5 8 25 3.5 1 2	5 47 12.4 42 8 1.8 6 1 7 43.5 9.4 30.5 5 1.4 4 0.6 339.5 8 25 3.5 1 2 0.4	5 47 12.4 42 8 1.8 6 1 5.5 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 5 39.5 8 25 3.5 1 2 0.4 1.5	5 47 12.4 42 8 1.8 6 1 5.5 1 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4	5 47 12.4 42 8 1.8 6 1 5.5 1 3 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1	5 47 12.4 42 8 1.8 6 1 55 1 3 0.4 2.5 0.4 0.1 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 51 1.5 1.5 0.2 1.5 0.2 0.4 70 <th 70<<="" th=""><th>5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 6 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 7 9.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 8</th><th>5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 1.1 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 2.' 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1</th></th>	<th>5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 6 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 7 9.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 8</th> <th>5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 1.1 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 2.' 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1</th>	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.2 1.5 0.2 0.4 70 5 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 6 39.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 7 9.5 8 2.5 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 8	5 47 12.4 42 8 1.8 6 1 5.5 1 3 0.4 2.5 0.4 0.1 5 1.1 ' 43.5 9.4 30.5 5 1.4 4 0.6 3 0.6 1.5 0.2 1.5 0.2 0.4 70 2.' 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1 3 39.5 8 25 3.5 1 2 0.4 1.5 0.4 1 0.1 0.5 0.1 0.1 65 0.1
R406638 R406639 R406640	TAR61 TAR61 TAR61 TAR62	28 30 32 0	30 MV 32 MV 34 MV 4 MV	V 250 V 132 V 129 V 178	52 42 54 74	0.05 1.17 1.4 8.66	23 19 18 14	41 48 26	4 4 6	2 1 2 3.5	0.4	2 2 1 1.5	24 32 12	0.6 1 - 1 - 0.8 - 2	19 0 16 0 1 <u>5 0</u> 23 (.05 0.8 .05 0.7 .05 1.0 .2 1.5	UUU. 100. 1 <u>50.</u> 100.	9 99 7 89 4 49 3 49	1.40 1.00 1.70 1.20	5 0.1 5 0.1 5 0.1 5 0.1	31.7 32 35.6 30	7.74 6.73 6.22 3.86	3.29 1.76 3.61 2.76	0.26 0.23 0.22 0.24	0.35 0.31 0.22 0.61	2.58 1.82 1.34 1.05	200 150 170 190	1/30 1270 1450 425	20 250 150 50	96 98 95.5 31		74.5 45 52 17.5	74.5 17.8 45 9.4 52 11.6 17.5 4.4	45 9.4 31 52 11.6 37.5 17.5 4.4 15	74.5 17.8 56 7.5 45 9.4 31 4.5 52 11.6 37.5 5.5 17.5 4.4 15 3	74.5 17.8 56 7.5 2.4 45 9.4 31 4.5 1.6 52 11.6 37.5 5.5 1.8 17.5 4.4 15 3 0.6	74.5 17.8 56 7.5 2.4 4 45 9.4 31 4.5 1.6 2 52 11.6 37.5 5.5 1.8 4 17.5 4.4 15 3 0.6 2	74.5 17.8 56 7.5 2.4 4 0.6 45 9.4 31 4.5 1.6 2 0.4 52 11.6 37.5 5.5 1.8 4 0.6 17.5 4.4 15 3 0.6 2 0.4	74.5 17.8 56 7.5 2.4 4 0.6 2.5 45 9.4 31 4.5 1.6 2 0.4 2 52 11.6 37.5 5.5 1.8 4 0.6 2.5 17.5 4.4 15 3 0.6 2 0.4 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	74.5 17.8 56 7.5 2.4 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 45 9.4 31 4.5 1.6 2 0.4 2 0.4 1 0.1 1 0.1 0.1 52 11.6 37.5 5.5 1.8 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 17.5 4.4 15 3 0.6 2 0.4 1.5 0.2 1.5 0.2 0.8	74.5 17.8 56 7.5 2.4 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 115 45 9.4 31 4.5 1.6 2 0.4 2 0.4 1 0.1 1 0.1 0.1 35 52 11.6 37.5 5.5 1.8 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 5 52 11.6 37.5 5.5 1.8 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 5 17.5 4.4 15 3 0.6 2 0.4 1.5 0.2 1.5 0.2 0.8 10	74.5 17.8 56 7.5 2.4 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 115 45 9.4 31 4.5 1.6 2 0.4 2 0.4 1 0.1 1 0.1 0.1 35 52 11.6 37.5 5.5 1.8 4 0.6 2.5 0.4 1 0.1 1 0.1 0.1 5 17.5 4.4 15 3 0.6 2 0.4 1.5 0.2 1.5 0.2 0.8 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
R406641 R406642 R406643	TAR62 TAR62 TAR62	4 8 12	8 MV 12 MV 22 MV	/ 336 / 394 / 329	122 158 120	1.23 1.67 0.41	28 19 14	51 43 37	10 10 10	7.5 14 9	0.8	2.5 3 4.5	25 21 28	2.2 4 2 3 1.6 3	42 (31 (38 ().4 2.8).4 2.4).4 2.4	50. 00. 50.	5 96 5 88 5 10	8.50 8.50 7.00	5 0.1 5 0.1 5 0.1	28 28.2 27.8	8.7 7.74 9.72	4.33 4.12 4.49	0.49 0.5 0.52	0.96 1.26 1.13	1.72 1.79 2.24	270 250 300	1570 335 283	150 100 100	76 71.5 77		39 36 38.5	39 8.8 36 9.2 38.5 9.6	39 8.8 29.5 36 9.2 30 38.5 9.6 32.5 10 22.5 12	39 8.8 29.5 5.5 36 9.2 30 6 38.5 9.6 32.5 6 10 20 12 25	39 8.8 29.5 5.5 1.2 36 9.2 30 6 1.4 38.5 9.6 32.5 6 1.2 10 26 36 2.5 6 1.2	39 8.8 29.5 5.5 1.2 6 36 9.2 30 6 1.4 6 38.5 9.6 32.5 6 1.2 4 10 32.5 6 1.2 4	39 8.8 29.5 5.5 1.2 6 0.8 36 9.2 30 6 1.4 6 0.8 385 9.6 32.5 6 1.2 4 0.8 40 1.2 2.5 0.2 1.4 1.4 0.8	39 8.8 29.5 5.5 1.2 6 0.8 5 36 9.2 30 6 1.4 6 0.8 4.5 38.5 9.6 32.5 6 1.2 4 0.8 4.5 16 2.6 1.2 2.6 0.4 2.5	39 8.8 29.5 5.5 1.2 6 0.8 5 1 36 9.2 30 6 1.4 6 0.8 4.5 1 385 9.6 32.5 6 1.2 4 0.8 4.5 1 36 9.2 30 6 1.4 6 0.8 4.5 1 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 10 2.5 10 2.5 0.2 2.4 2 0.4	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 31.6 9.2 10 32.5 6 1.2 4 0.8 4.5 1 2.5 31.6 9.2 10 32.5 6 2.6 2.4 2.9 0.5 1.5	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 310 2.5 6 1.2 4 0.8 4.5 1 2.5 0.4 310 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 36 9.2 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 36 9.2 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 0.4 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 36 9.2 30 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 36 9.2 12 2.6 12 2.6 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4 2.5 0.4	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 0.4 0.4 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 10 2.5 1.2 2.4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 10 2.5 1.2 2.4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 0.4 0.4 5 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 10 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 10 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 0.2 5 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 0.2 5 10 32.5 0.6 32.5 0.4 3.5 0.2 1 10	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 0.4 0.4 5 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 10 385 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 10 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 10 32.5 6 1.2 0.4 3 0.4 2.5 0.4 0.2 1 10	39 8.8 29.5 5.5 1.2 6 0.8 5 1 3 0.4 3 0.4 0.4 5 2.5 36 9.2 30 6 1.4 6 0.8 4.5 1 2.5 0.4 2.5 0.4 0.4 10 2.6 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 1.7 38.5 9.6 32.5 6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 1.7 30.6 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.2 5 1.7 30.6 1.2 2.6 0.4 2.5 0.4 0.2 1.5 0.2 1.5 0.2 1.5 0.2 1.7 10 1.5 10	
R406645 R406646 R406647	TAR62 TAR62 TAR62 TAR62	22 26 28 40	26 MV 28 MV 40 MV 50 MV	/ 136 / 136 / 165 / 67	326 88 106 44	0.12 0.12 0.05 0.04	12 10 10 9	26 27 23	2 2 2 2	5.5 2.5 1.5	0.8	2 1.5 1.5	25 8 46 70	7.4 2.2 1 0.4	37 (27 () 23 () 24 ()	.05 2.7 .05 1.4 .05 2.4 .05 3.4	5 0. 5 0.1 0 0.	5 43 05 11 1 18 2 25	30 .30 3.60 5.30	5 0.1 5 0.1 5 0.1 5 0.1	24.5 26 28.5 33.8	8.19 11.2 12.2 9.97	7.82 3.35 0.91	0.42 0.44 0.85 0.3	0.68 0.21 0.11 0.09	0.85 0.22 0.32 0.66	280 220 230 240	496 62 160 364	100 100 50 20	27 11.5 67.5 169		33.5 70 46	16 3.6 33.5 4.4 70 12.2 46 8.6	16 3.6 12 33.5 4.4 12.5 70 12.2 35 46 8.6 27.5	16 3.6 12 2.5 33.5 4.4 12.5 2 70 12.2 35 5 46 8.6 27.5 4	16 3.6 12 2.5 0.6 33.5 4.4 12.5 2 0.4 70 12.2 35 5 1.2 46 8.6 27.5 4 1.2	1b 3.b 12 2.5 0.b 2 33.5 4.4 12.5 2 0.4 1 70 12.2 35 5 1.2 4 46 8.6 27.5 4 1.2 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16 3.6 1.2 2.5 0.6 2 0.4 2 33.5 4.4 12.5 2 0.4 1 0.2 1 70 12.2 35 5 1.2 4 0.4 1.5 46 8.6 27.5 4 1.2 4 0.4 2	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 70 12.2 35 5 1.2 4 0.4 1.5 0.2 76 46 8.6 27.5 4 1.2 4 0.4 2 0.4	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 0.2 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 0.1 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 0.2 1.3 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 0.1 0.2 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 0.5 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2 1	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 0.2 1.5 0.2 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 0.1 0.2 0.1 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 0.5 0.1 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2 1 0.1	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 0.2 1.5 0.2 1 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 0.1 0.2 0.1 2.8 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 0.5 0.1 2 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2 1 0.1 0.1	16 3.6 12 2.5 0.6 2 0.4 2 0.6 1.5 0.2 1.5 0.2 1 10 33.5 4.4 12.5 2 0.4 1 0.2 1 0.2 0.5 0.1 0.2 0.1 2.8 55 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 0.5 0.1 2 40 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2 1 0.1 0.1 0.1 11 150	16 3.6 1.2 2.5 0.6 2 0.4 2 0.6 1.5 0.2 1.5 0.2 1 10 33.5 4.4 12.5 2 0.4 1 0.2 1.5 0.2 1.5 0.2 1 10 33.5 4.4 12.5 2 0.4 1 0.2 0.5 0.1 0.2 0.1 2.8 55 70 12.2 35 5 1.2 4 0.4 1.5 0.2 1 0.1 0.2 0.4 46 8.6 27.5 4 1.2 4 0.4 2 0.4 1 0.2 1 0.1 <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
R406648 R406649 R406580	TAR62 TAR62 TAR71	50 60 0	60 MV 66 MV 2 MV	/ 134 / 139 / 291	108 56 50	0.08 0.13 17.2 2.17	24 15 18	84 91 31	8 10 6	2 1.5 6	0.4	2 2 11	29 33 12	0.6 2	21 0 21 0 16 (.05 2.7 .05 2.2).1 1.6	52 01. 00.	2 24 5 16 2 37	9.00 6.00 7.10	5 0.1 5 0.1 5 0.1	34.7 31.6 19.7	7.23 7.75 3.24	2.47 2.19 1.52	0.29 0.24 0.2	0.44 0.34 0.89	3.4 3.56 0.85	170 180 140	1220 1130 420	100 50 100	257 121 38	1 67 21	57 7.5 1.5	57 41.6 7.5 15.8 1.5 5.6	57 41.6 145 7.5 15.8 51.5 1.5 5.6 22	57 41.6 145 23 7.5 15.8 51.5 8.5 1.5 5.6 22 4 00 7.0 205 5	57 41.6 145 23 6.4 7.5 15.8 51.5 8.5 2.4 1.5 5.6 22 4 0.8 00 7.0 205 6 1.2	57 41.6 145 23 6.4 18 7.5 15.8 51.5 8.5 2.4 6 1.5 5.6 22 4 0.8 4 0.7 205 5 12 6 14	57 41.6 145 23 6.4 18 2.6 7.5 15.8 51.5 8.5 2.4 6 1 1.5 5.6 22 4 0.8 4 0.6 0 7.0 205 5 1.2 6 0.9	57 41.6 145 23 6.4 18 2.6 12 7.5 15.8 51.5 8.5 2.4 6 1 5 1.5 5.6 2.2 4 0.8 4 0.6 3 0.7 7.0 205 5 1.2 6 1 5	57 41.6 145 23 6.4 18 2.6 12 2.4 7.5 15.8 51.5 8.5 2.4 6 1 5 1 1.5 5.6 22 4 0.8 4 0.6 3 0.6 0.7 7.0 705 6 1 5 0.0 4 0.0	57 41.6 145 23 6.4 18 2.6 12 2.4 7 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.7 7.0 205 6 1 5 0.0 4 0.0 2	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 0.7 0.75 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 5.5 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 2.5 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.7 0.705 6 1.2 0.0 4 0.0 2 0.4 2.5	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 5.5 0.8 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 2.5 0.4 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 1.5 0.2 1.5 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 5.5 0.8 0.1 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 2.5 0.4 0.2 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 1.8 0.7 70 705 6 1 6 3 0.6 1.5 0.2 1.8	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 5.5 0.8 0.1 135 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 2.5 0.4 0.2 60 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 1.8 85 0.7 7.0 2.04 0.2 0.0 4 0.2 0.4 1 45	57 41.6 145 23 6.4 18 2.6 12 2.4 7 1 5.5 0.8 0.1 135 7.5 15.8 51.5 8.5 2.4 6 1 5 1 3 0.4 2.5 0.4 0.2 60 1.5 5.6 22 4 0.8 4 0.6 3 0.6 1.5 0.2 1.8 85 0.7 7.0 20.5 6.1 0.0 4 0.0 2 0.4 1 45	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
R406582 R406583 R406584	TAB71 TAB71 TAB71 TAB71	6 8 10	8 MV 10 MV 14 MV	V 338 V 178 V 124 V 159	158 104 116	0.11 0.07 0.07	26 17 22	46 57 63 36	8 10	7.5 16 8 8.5	0.4 0.4 0.4 0.4	2.5 3 2.5	21 17 17 17	1.6 2 2 2 2 2	26 (18 (26 ().3 2.8).3 2.6).3 2.6).4 4.7	0 0. 0 0. 5 0. 5 0.	4 70 5 84 4 73 3 76	1.20 1.90 1.60 1.10	5 0.1 5 0.1 5 0.1 5 0.1	30.4 33.3 36.5 34	5.89 6.6	4.13 3.61 3.5	0.36 0.34 0.35	1.02 0.64 0.92	1.6 1.76 1.43 1.47	180 200 220	577 500 322	150 50 200	48 27.5 23.5	28.9 28.9 20.9	5 5 5	5 6.2 5 3.8 5 2.8	7.8 23.3 5 6.2 24 5 3.8 13 5 2.8 9	7.6 23.3 6 5 6.2 24 4.5 5 3.8 13 2 5 2.8 9 1.5	7.6 23.3 6 1.2 5 6.2 24 4.5 0.8 5 3.8 13 2 0.6 5 2.8 9 1.5 0.4	7.0 23.9 6 1.2 6 5 6.2 24 4.5 0.8 4 5 3.8 13 2 0.6 1 5 2.8 9 1.5 0.4 1	1.0 23.5 6 1.2 6 0.6 5 6.2 24 4.5 0.8 4 0.6 5 3.8 13 2 0.6 1 0.4 5 2.8 9 1.5 0.4 1 0.2	7.0 23.9 6 1.2 6 0.6 4 5 6.2 24 4.5 0.8 4 0.6 3 5 3.8 13 2 0.6 1 0.4 2 5 2.8 9 1.5 0.4 1 0.2 1.5	7.6 23.3 6 1.2 6 0.6 4 0.6 5 6.2 24 4.5 0.8 4 0.6 3 0.6 5 3.8 13 2 0.6 1 0.4 2 0.4 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4	7.6 23.3 6 1.2 6 0.6 4 0.6 2 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1	7.6 23.3 6 1.2 6 0.6 4 0.6 2 0.4 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.4 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 0.1 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1	7.6 23.3 6 1.2 6 0.8 4 0.8 2 0.4 2 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.2 2 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 0.1 1.5 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5	7.6 23.3 6 1.2 6 0.6 4 0.6 2 0.4 2 0.4 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.4 2 0.4 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 0.1 1.5 0.2 2 0.4 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2	7.6 23.3 6 1.2 6 0.8 4 0.8 2 0.4 2 0.4 1 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.2 2 0.4 1 5 3.8 13 2 0.6 1 0.4 2 0.4 1 1.5 0.2 0.4 0.6 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2 0.6	7.6 23.3 6 1.2 6 0.6 4 0.6 2 0.4 2 0.4 1 4 0.5 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.2 2 0.4 1 4.5 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 15 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2 0.6 15	7.6 23.3 6 7.2 6 0.6 4 0.6 2 0.4 2 0.4 1 43 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.2 2 0.4 1 43 5 3.8 13 2 0.6 1 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 15 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2 0.6 15	7.6 23.3 6 7.2 6 0.6 4 0.6 2 0.4 2 0.4 1 49 2.2 5 6.2 24 4.5 0.8 4 0.6 3 0.6 2 0.2 2 0.4 1 49 2.2 5 3.8 13 2 0.6 1 0.4 2 0.2 2 0.4 0.6 25 3.3 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2 0.4 15 2.4 5 2.8 9 1.5 0.4 1 0.2 1.5 0.4 1 0.1 1.5 0.2 0.6 15 3.3	
R406585 R406586 R406587 B406588	TAR71 TAR71 TAR71 TAR71	14 20 26 30	20 MV 26 MV 30 MV 44 MV	V 122 V 90 V 49 V 49	60 300 160 58	0.07 0.04 0.05 0.03	26 30 24 17	30 15 46 12	10 6 8 2	5 14 5.5 2.5	0.4	3.5 3 6.5 4	13 39 14 14	1.2 2 5.6 - 5.2 -	20 (18 (18 (18 ().4 5.9).6 2.6).7 2.5).4 2.7	15 0. 15 0. 15 0.1 10 0.1	3 75 2 25 05 6. 05 8	5.40 5.50 58 20	5 0.1 5 0.1 5 0.1 5 0.1	32.2 32.9 36.2 37.5	7 5.75 6.1 4.49	3.4 7.69 3.94 1.06	0.41 0.53 1.31 0.44	0.89 0.47 0.37 0.1	1.43 0.47 0.16 0.15	270 370 660 470	209 268 114 134	50 150 50 200	28 14.5 12.5 29	21.5 7.5 4.5 22	;	5 3.2 1.4 1.2 3.8	5 3.2 10.5 1.4 6.5 1.2 4.5 38 125	5 3.2 10.5 2 1.4 6.5 1 1.2 4.5 1 3.8 125 2	5 3.2 10.5 2 0.4 1.4 6.5 1 0.2 1.2 4.5 1 0.2 3.8 12.5 2 0.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
R406589 R406590 R406591	TAR71 TAR71 TAR72	44 54 0	54 MV 59.5 MV 2 MV	V 138 V 522 V 74	148 190 18	0.06	45 66 5	40 128 8	10 40 2	4.5 5 1.5	0.6	8.5 3.5 1	46 23 4	3 2 4.4 4 0.2	22 1 48 (6 0	.7 6.9 .3 4.6 .05 0.2	5 0. 5 0. 5 0.	2 28 8 11 05 13	8.90 9.00 8.70	5 0.1 5 0.1 5 0.1	32.5 25.9 42.6	10.4 8.23 0.98	2.66 9.92 0.9	0.44 1 0.52 0.11	0.22 0.63 0.11	0.44 2.53 0.28	720 240 290	275 1050 123	50 100 20	155 109 8	89.5 52 3.5		20 12.6	20 72 12.6 48.5 1 3.5	20 72 12 12.6 48.5 8.5 1 3.5 0.5	20 72 12 2.8 12.6 48.5 8.5 2.2 1 3.5 0.5 0.1	20 72 12 28 10 12.6 48.5 8.5 2.2 6 1 3.5 0.5 0.1 1	20 72 12 2.8 10 1.4 12.6 48.5 8.5 2.2 6 1 1 3.5 0.5 0.1 1 0.1	20 72 12 28 10 1.4 7.5 12.6 48.5 8.5 2.2 6 1 5.5 1 3.5 0.5 0.1 1 0.1 0.5	30 72 12 28 10 1.4 7.5 1.2 12.6 48.5 8.5 2.2 6 1 5.5 1 1 3.5 0.5 0.1 1 0.1 0.5 0.1	30 72 12 28 10 1.4 7.5 1.2 4 126 48.5 8.5 2.2 6 1 5.5 1 3 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2	30 72 12 28 10 1.4 7.5 1.2 4 0.6 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1	30 72 12 28 10 1.4 7.5 1.2 4 0.6 35 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 2.5 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.2	30 123 2 64 1 64 1 64 1 13 64 13 64 14 75 14 16 35 06 126 485 85 22 6 1 55 1 3 0.4 25 0.4 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.2 0.1	30 123 2 64 1 64 1 64 1 64 1 64 1 10 10 10 10 14 75 12 14 10 14 75 12 4 0.6 3.5 0.6 0.8 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 2.5 0.4 4.6 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.2 0.1 0.6	3.5 12.5 2 3.4 1 3.4 7.5 1.2 4 0.6 3.5 0.6 0.8 50 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 2.5 0.4 4.6 120 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.2 0.1 0.6 2.5 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.2 0.1 0.6 2.5	30 120 2 24 10 1.4 2 1.4 1 1.2 4 0.6 3.5 0.6 0.8 50 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 2.5 0.4 4.6 120 1 3.5 0.5 0.1 1 0.5 0.1 0.2 0.1 0.2 0.1 0.6 25	30 123 2 0.4 1 0.4 7 12 0.4 10 1.4 7.5 1.2 4 0.6 3.5 0.6 0.8 50 3 3 12.6 48.5 8.5 2.2 6 1 5.5 1 3 0.4 2.5 0.4 4.6 120 8.0 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.6 2.5 0.4 1 3.5 0.5 0.1 1 0.1 0.5 0.1 0.2 0.1 0.6 2.5 0.4	
R406592 R406593 R406594 R406595	TAR72 TAR72 TAR72 TAR72 TAR72	2 8 10 22	8 MV 10 MV 22 MV 26 MV	/ 165 / 156 / 154 / 102	58 108 90 116	1.77 0.07 0.13 0.28	15 20 27 20	33 44 43 26	8 8 10 6	5 10 10 13	0.2	2 3 3.5 3	12 23 41 12	1 1.8 1.4 2.2	16 (20 (28 (26 ().2 1.2).3 2.4).4 5.2).2 1.8	000. 50. 000. 500.	3 48 5 78 4 88 1 26	8.90 8.80 8.50 8.20	5 0.1 5 0.1 5 0.1 5 0.1	36.2 35 32.4 38.9	4.41 6.38 8.31 4.08	2.25 4.76 4.03 3.39	0.23 0.28 0.41 0.47	0.56 0.48 0.88 0.35	0.98 1.51 1.6 0.45	230 190 240 320	617 452 213 308	150 50 150 100	39 33.5 46.5 12.5	20 21 30.5 6.5		4.8 3.8 4 1.2	4.8 18.5 3.8 13.5 4 12.5 1.2 4.5	4.8 18.5 3 3.8 13.5 2.5 4 12.5 2 1.2 4.5 1	4.8 18.5 3 0.6 3.8 13.5 2.5 0.6 4 12.5 2 0.6 1.2 4.5 1 0.1	4.8 18.5 3 0.6 2 3.8 13.5 2.5 0.6 2 4 12.5 2 0.6 1 1.2 4.5 1 0.1 1	4.8 18.5 3 0.6 2 0.4 3.8 13.5 2.5 0.6 2 0.4 4 12.5 2 0.6 1 0.4 1.2 4.5 1 0.1 1 0.1	4.8 18.5 3 0.6 2 0.4 2.5 3.8 13.5 2.5 0.6 2 0.4 2 4 12.5 2 0.6 1 0.4 2 1.2 4.5 1 0.1 1 0.1 1.5	4.8 18.5 3 0.6 2 0.4 2.5 0.4 3.8 13.5 2.5 0.6 2 0.4 2 0.4 4 12.5 2 0.6 1 0.4 2 0.4 1.2 4.5 1 0.1 1 0.1 1.5 0.2	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 4 12.5 2 0.6 1 0.4 2 0.4 1.5 12 4.5 1 0.1 1 0.1 1.5 0.2 1	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.2 4.5 1 0.1 1 0.1 15 0.2 1	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.5 1.2 4.5 1 0.1 1 0.1 1.5 0.2 1 0.1	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 0.2 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 0.2 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.5 0.2 1.2 4.5 1 0.1 1 0.1 1.5 0.2 1 0.2	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.4 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.1 1.2 4.5 1 0.1 1 1.5 0.2 1 0.6 0.6 0.4 0.4 0.2 1.5 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.6 0.2 0.6 0.6 0.6 0.2 1 0.1 1 0.2 0.6 0.5 0.5 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	48 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.4 15 38 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 10 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.4 10 12 4.5 1 0.1 1 0.4 1.5 0.2 1.1 1 0.2 0.6 20	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.4 15 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 10 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.4 10 12 4.5 1 0.1 1 0.1 1.5 0.2 1.0 1 1 0.2 0.6 20	4.8 18.5 3 0.6 2 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.4 15 2 3.8 13.5 2.5 0.6 2 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 10 2.5 4 12.5 2 0.6 1 0.4 2 0.4 1.5 0.1 1.5 0.2 0.4 10 2.5 1.2 4.5 1 0.1 1.5 0.2 1.4 10 2.5 2.5	
R406596 R406597 R406598	TAR72 TAR72 TAR72 TAR72	26 32 38	32 MV 38 MV 40 MV	V 26 V 32 V 32	74 74 52	0.03 0.08 0.37	16 15 14	12 19 13	4 4 2	4.5 3 3.5	0.6	2.5 3.5 1.5	10 38 40	2.6 1.2 0.8	14 (12 (10 (0.4 2.4 0.2 2.7 0.1 1.9		05 7. 2 42 6 10	.40 2.50 3.00	5 0.1 5 0.1 5 0.1	39.7 31.2 32.7	3.69 10.7 9.45	1.29 1.03 0.42	0.92 0.47 0.26	0.31 0.2 0.16	0.14 1.1 3.21	620 310 140	178 427 1320	150 50 50	17 171 113	11 54 66.5		1.8 9 8.6	1.8 7 9 30 8.6 23	1.8 7 1.5 9 30 4.5 8.6 23 3	1.8 7 1.5 0.4 9 30 4.5 1.2 8.6 23 3 0.6	1.8 7 1.5 0.4 1 9 30 4.5 1.2 2 8.6 23 3 0.6 1	1.8 7 1.5 0.4 1 0.4 9 30 4.5 1.2 2 0.4 8.6 23 3 0.6 1 0.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18 7 1.5 0.4 1 0.4 2.5 0.6 9 30 4.5 1.2 2 0.4 2.5 0.4 8.6 23 3 0.6 1 0.2 1.5 0.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18 7 1.5 0.4 1 0.4 2.5 0.6 2 0.2 9 30 4.5 1.2 2 0.4 2.5 0.4 1.5 0.2 8.6 23 3 0.6 1 0.2 1.5 0.2 0.5 0.1 1.5 0.2 0.5 0.1 0.2 1.5 0.2 0.5 0.1 0.2 1.5 0.2 0.5 0.1 0.2 1.5 0.2 0.5 0.1 0.2 1.5 0.2 0.5 0.1 0.1 0.2 0.5 0.1 0.1 0.2 0.5 0.1 0.1 0.2 0.5 0.1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
R406650 R406651 R406652 R406653	TAR73 TAR73 TAR73 TAR73	0 2 6 10	2 MV 6 MV 10 MV 14 MV	V 94 V 159 V 118 V 127	48 122 108 114	6.51 5.87 0.1 0.19	9 19 12 11	16 27 28 27	2 6 4 2	4.5 9.5 17 18	0.2	1 2 3 2.5	9 17 18 18	0.4 2.2 2 1.4 2 1.4 2	13 (23 (20 (20 (0.1 0.8 0.2 2.9 0.4 2.8 0.4 2.6	UU. 50. 50.	2 36 4 64 6 10 5 10	i.40 I.20 4.00 6.00	5 0.1 5 0.1 5 0.1 5 0.1	35.8 30.9 35.4 34.1	2.11 4.36 6.73 7.89	1.56 3.37 2.92 3.22	0.17 0.29 0.43 0.5	0.43 0.8 0.59 0.66	0.76 1.34 1.76 1.67	250 200 340 380	248 684 440 423	20 250 50 100	25 49.5 42.5 31	12 26 24 20.5		3 6.2 4.4 3.6	3 9.5 6.2 21.5 4.4 14 3.6 11	3 9.5 2 6.2 21.5 4 4.4 14 2.5 3.6 11 2	3 9.5 2 0.4 6.2 21.5 4 0.8 4.4 14 2.5 0.6 3.6 11 2 0.4	3 9.5 2 0.4 1 6.2 21.5 4 0.8 4 4.4 14 2.5 0.6 2 3.6 11 2 0.4 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 9.5 2 0.4 1 0.2 1.5 6.2 21.5 4 0.8 4 0.6 3 4.4 14 2.5 0.6 2 0.4 3 3.6 11 2 0.4 2 0.4 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 9.5 2 0.4 1 0.2 1.5 0.4 1 6.2 21.5 4 0.8 4 0.6 3 0.6 2 4.4 14 2.5 0.6 2 0.4 3 0.6 2 3.6 11 2 0.4 2 0.4 3 0.6 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
R406654 R406655 R406656	TAR73 TAR73 TAR73	14 18 20	18 MV 20 MV 24 MV	/ 68 / 61 / 82	60 30 60	0.02 0.01 0.07	15 6 6	13 7 9	2 1 2	29 9 21	2.2 0.6 1.4	4 3 5.5	36 10 13	2.2 · 0.6 · · · ·	13 (7 (11 ().6 2.9).3 1.2).3 1.5	5 0. 0 0. 0 0.	7 13 3 54 4 77	2.00 1.50 7.00	5 0.1 5 0.1 5 0.1	38.3 42 40.1	5.32 2.69 3.75	2.06 1.5 2.49	0.35 0.26 0.31	0.27 0.19 0.26	2.36 0.63 0.81	250 360 350	715 371 800	200 20 50	59.5 23.5 25.5	33 11 12.5	6.4 2.6 2.8	4 6 3	4 20 5 8 3 9	4 20 4 6 8 1.5 8 9 2	4 20 4 0.8 6 8 1.5 0.4 3 9 2 0.4	4 20 4 0.8 4 5 8 1.5 0.4 1 3 9 2 0.4 1 5 4 1 1 1	4 20 4 0.8 4 0.6 5 8 1.5 0.4 1 0.4 3 9 2 0.4 1 0.4	4 20 4 0.8 4 0.6 4 5 8 1.5 0.4 1 0.4 2 3 9 2 0.4 1 0.4 25 4 5 1 1 1 1 1 1	4 20 4 0.8 4 0.6 4 0.8 6 8 1.5 0.4 1 0.4 2 0.4 3 9 2 0.4 1 0.4 2.5 0.4 0 4 1 0.4 2.5 0.4 0.6 0.4 0.4 0.6 0.4 0.6 0.4 0.	4 20 4 0.8 4 0.6 4 0.8 2.5 6 8 1.5 0.4 1 0.4 2 0.4 1.5 3 9 2 0.4 1 0.4 2.5 0.4 1.5 4 0 0.4 2.5 0.4 1.5	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 4 0.9 2 0.4 1 0.4 2.5 0.4 1.5 0.2	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 4 0.4 2.5 0.4 1.5 0.2 1.5 1.5 5 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 0.4 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 0.2 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 4 0.4 2.5 0.4 1.5 0.2 1.5 0.2 5 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 5 0.4 1.5 0.2 1.5 0.2 0.4 1.5 0.2 1.5 0.2 0.5 0.4 1.5 0.2 1.5 0.2 0.5 0.4 1.5 0.2 1.5 0.2 0.5 0.4 1.5 0.4 1.5 <	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 0.4 0.1 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.2 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.2 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.1	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 0.4 0.1 10 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.2 10 3 9 2 0.4 1 0.4 25 0.4 1.5 0.2 1.5 0.2 0.2 10 3 9 2 0.4 1 0.4 25 0.4 1.5 0.2 1.5 0.2 0.1 25	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 0.4 0.1 10 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.2 10 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 1.5 0.2 0.1 25 4 0.4 1.5 0.4 1.5 0.2 1.5 0.2 0.1 25 4 1.5 0.4 1.5 0.2 1.5 0.2 0.1 25	4 20 4 0.8 4 0.6 4 0.8 2.5 0.4 2.5 0.4 0.1 10 2.3 5 8 1.5 0.4 1 0.4 2 0.4 1.5 0.2 1.5 0.2 0.2 10 1.6 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 0.2 10 1.6 3 9 2 0.4 1 0.4 2.5 0.4 1.5 0.2 0.2 0.1 25 1.7	
R406658 R406659 R406660	TAR73 TAR73 TAR74 TAR74	24 26 0 2	26 MV 27 MV 2 MV 6 MV	V 294 V 359 V 108 V 221	20 24 56 70	0.89 7.43 5.84	7 15 10 17	30 51 15 37	4 4 6	2.5 1 4 5.5	0.2	2 2 2 2 2 2	41 32 9 15	2 2.6 0.6 1.4	8 0 <u>9 0</u> 11 (22 (.05 1.0 .05 1.1).1 1.3).2 2.3	UUU. <u>00.</u> 000. 000.	7 11 6 11: 2 37 4 69	7.00 <u>2.00</u> 7.90 9.30	5 0.1 5 0.1 5 0.1 5 0.1	28.5 29 31.5 28.8	7.02 7.54 2.03 4.87	2.51 4.71 1.61 2.86	0.35 0.49 0.16 0.27	0.12 0.12 0.48 0.85	5.5 5.51 0.8 1.49	940 1350 190 220	1570 1500 286 671	100 100 20 50	16.5 26 26 58.5	10 13 12.5 31.5	1.2 2 3.4 8		4.5 7 11.5 27	4.5 1 7 1.5 11.5 2 27 4.5	4.5 1 1.8 7 1.5 1.8 11.5 2 0.6 27 4.5 1.2	4.5 1 1.8 1 7 1.5 1.8 1 11.5 2 0.6 1 27 4.5 1.2 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.5 1 1.8 1 0.1 1 0.2 7 1.5 1.8 1 0.2 1.5 0.4 11.5 2 0.6 1 0.4 1.5 0.4 27 4.5 1.2 4 0.8 3.5 0.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
R406661 R406662 R406663	TAR74 TAR74 TAR74	6 10 18	10 MV 18 MV 22 MV	/ 150 / 141 / 86	110 96 76	0.85	21 12 8	43 34 16	10 6 2	12 15 31	0.8	2.5 3 4.5	29 19 28	2.2 2 2.6 2 1.6 7	29 (22 (10 ().4 4.0).4 2.7).7 3.2	0 0. 5 0. 5 0.	6 10 5 11 8 14 6 11	5.00 3.00 3.00	5 0.1 5 0.1 5 0.1	32.5 31.8 34.5	6.63 7.39 6.36	3.3 3.04 2.3	0.39 0.46 0.4	0.76 0.75 0.5	1.87 1.82 2.35	260 240 300	665 421 795	200 50 50	108 35 69	43.5 21 39	12 4 7.6		42 12.5 24.5	42 8 12.5 2.5 24.5 5	42 8 1.8 12.5 2.5 0.6 24.5 5 0.8 10 25 0.9	42 8 1.8 8 12.5 2.5 0.6 2 24.5 5 0.8 4	42 8 1.8 8 1.2 12.5 2.5 0.6 2 0.4 24.5 5 0.8 4 0.8 10 3.5 0.9 4 0.6	42 8 1.8 8 1.2 6.5 12.5 2.5 0.6 2 0.4 3 24.5 5 0.8 4 0.8 4.5 15 25 0.6 4 0.6 4.5	42 8 1.8 8 1.2 6.5 1.2 12.5 2.5 0.6 2 0.4 3 0.6 24.5 5 0.8 4 0.8 4.5 1 15 2.5 0.6 4 0.6 4 0.6	42 8 1.8 8 1.2 6.5 1.2 3.5 12.5 2.5 0.6 2 0.4 3 0.6 2 24.5 5 0.8 4 0.8 4.5 1 3 10 25 0.8 4 0.6 4.5 1 3	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 24.5 5 0.8 4 0.8 4.5 1 3 0.4 15 2.5 0.8 4 0.8 4.5 1 3 0.4	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 24.5 5 0.8 4 0.8 4.5 1 3 0.4 3.5 10 25 0.4 0.6 4 0.6 4 0.2 0.4 3.5	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 0.6 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 0.4 24.5 5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 15 2.5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 0.6 0.4 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 0.4 0.1 24.5 5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1 15 2.5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 0.6 0.4 15 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 0.4 0.1 10 24.5 5 0.8 4 0.8 4.5 1 3 0.4 35 0.6 0.1 15 16 2.5 0.8 4 0.8 4.5 1 3 0.4 35 0.6 0.1 15	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 0.6 0.4 15 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 0.4 0.1 10 24.5 5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1 15 15 2.5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1 15 16 2.5 0.8 4 0.6 4.0 0.2 0.4 2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2	42 8 1.8 8 1.2 6.5 1.2 3.5 0.6 3.5 0.6 0.4 15 2.6 12.5 2.5 0.6 2 0.4 3 0.6 2 0.4 2 0.4 0.1 10 1.5 24.5 5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1 15 1 15 2.5 0.8 4 0.8 4.5 1 3 0.4 3.5 0.6 0.1 15 1 16 2.5 0.8 4 0.6 4.5 1 3 0.4 3.5 0.6 0.1 15 1	
R406665 R406666 R4066667	TAR74 TAR74 TAR74 TAR74	22 28 30 40	28 MV 30 MV 40 MV 42 MV	/ 38 / 122 / 48	76 22 74 164	0.08 0.02 0.11 0.05	7 11 5 15	14 4 11 25	1 10 10	28 3.5 7 12	1.6 0.8 1.2 1	4.5 2 5.5 2.5	9 20 22	1.8 1.6 3.4 3.6	9 (13 (46 (41 ().6 2.5).2 1.6).3 2.5).4 3.3	5 0. 0 0. 0 0. 5 0.	5 113 3 51 2 32 4 16	5.00 .20 2.90 3.80	5 0.1 5 0.1 10 0.1 5 0.1	41.3 27.8 25.6	5.48 3.3 12.2 14.1	2.69 0.81 2.1 2.34	0.47 0.54 0.97 0.97	0.61 0.14 0.2 0.12	0.61 0.34 0.21	460 860 780	369 179 191	20 250 100 150	45.5 20 34 36	24 9 11 26.5	4.8 2 2.6 4.2		7 8.5 13	16 3.5 7 1.5 8.5 2 13 2.5	16 3.5 0.8 7 1.5 0.4 8.5 2 0.4 13 2.5 0.6	16 3.5 0.8 4 7 1.5 0.4 1 8.5 2 0.4 2 13 2.5 0.6 2	16 3.5 0.8 4 0.6 7 1.5 0.4 1 0.4 8.5 2 0.4 2 0.4 13 2.5 0.6 2 0.4	16 3.5 0.8 4 0.6 4 7 1.5 0.4 1 0.4 2.5 8.5 2 0.4 2 0.4 3 13 2.5 0.6 2 0.4 2.5	16 3.5 0.8 4 0.6 4 0.8 7 1.5 0.4 1 0.4 2.5 0.6 8.5 2 0.4 2 0.4 3 0.8 13 2.5 0.6 2 0.4 2.5 0.6	16 3.5 0.8 4 0.6 4 0.8 2.5 7 1.5 0.4 1 0.4 2.5 0.6 2 85 2 0.4 2 0.4 3 0.8 2.5 13 2.5 0.6 2 0.4 2.5 0.6 1.5	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 85 2 0.4 2 0.4 3 0.8 2.5 0.4 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 8.5 2 0.4 2 0.4 3 0.8 2.5 0.4 2 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2 2	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 0.4 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 85 2 0.4 2 0.4 3 0.8 2.5 0.4 2 0.4 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2 2 0.4	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 0.4 0.2 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.1 85 2 0.4 2 0.4 3 0.1 2.5 0.6 2.5 0.4 2.5 0.4 0.1 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2 2 0.4 0.2	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 0.4 0.2 10 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.2 10 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.1 15 8.5 2 0.4 2 0.4 3 0.8 2.5 0.4 2.5 0.4 0.1 10 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2 2 0.4 0.2 10	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 0.4 0.2 10 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.1 15 85 2 0.4 2 0.4 3 0.4 0.1 15 13 2.5 0.6 2 0.6 1.5 0.2 0.4 0.2 10	16 3.5 0.8 4 0.6 4 0.8 2.5 0.4 3 0.4 0.2 10 2 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.2 10 2 7 1.5 0.4 1 0.4 2.5 0.6 2 0.4 2 0.4 0.1 15 2.1 8.5 2 0.4 2 0.4 3 0.8 2.5 0.4 2.5 0.4 0.1 15 0.1 13 2.5 0.6 2 0.4 2.5 0.6 1.5 0.2 2 0.4 0.2 10 0.1	
R406668 R406669 R406670 R406671	TAR74 TAR74 TAR74 TAR74	42 54 66 74	54 MV 66 MV 74 MV 80 MV	/ 116 / 146 / 193 / 178	72 76 160 74	0.03 0.07 0.14 0.69	8 14 51 19	14 33 205 123	4 4 32 36	4 2.5 6 1.5	1.4 0.4 1 0.1	3 1.5 1.5 1.5	18 27 22 22	2	15 (19 (63 () 50 ()).2 3.1).1 3.3 .05 4.9 .05 2.6	50. 000. 51.	1 10 2 18 5 13 4 16).80).70 4.00 1.00	5 0.1 5 0.1 5 0.1 5 0.1	39.2 40.1 27.5 27.8	5.14 4.56 9.81 7.86	0.9 1.21 6.7 4.25	1.06 0.46 0.72 0.4	0.07 0.09 0.48 0.51	0.18 0.27 1.85 3.47	690 370 310 200	219 142 595 1230	50 50 50 50	110 192 162 100	64.5 68 119 50.5	11 13.8 38.6 10.8		33 42.5 143 35.5	33 5 42.5 6.5 143 27 35.5 6	33 5 1.2 42.5 6.5 1.4 143 27 6.8 35.5 6 1.4	33 5 1.2 4 42.5 6.5 1.4 6 143 27 6.8 26 35.5 6 1.4 6	33 5 1.2 4 0.8 42.5 6.5 1.4 6 0.8 143 27 6.8 26 3.8 35.5 6 1.4 6 0.8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33 5 1.2 4 0.8 4.5 1 2.5 42.5 6.5 1.4 6 0.8 3.5 0.8 2 143 27 6.8 26 3.8 19.5 4.2 12 35.5 6 1.4 6 0.8 4 0.8 2.5	33 5 1.2 4 0.8 4.5 1 2.5 0.4 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 143 27 6.8 26 3.8 19.5 4.2 12 1.8 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 0.4 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 1.6 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2 0.4	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.1 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 0.2 0.1 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 1.6 0.2 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2 0.4 0.1	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.1 25 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 0.2 0.1 35 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 1.6 0.2 35 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2 0.4 0.1 100	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.1 25 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 0.2 0.1 25 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 1.6 0.2 35 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2.0 0.4 0.1 100	33 5 1.2 4 0.8 4.5 1 2.5 0.4 2.5 0.4 0.1 25 0.3 42.5 6.5 1.4 6 0.8 3.5 0.8 2 0.2 1.5 0.4 0.1 25 0.3 143 27 6.8 26 3.8 19.5 4.2 12 1.8 10.5 1.6 0.2 35 0.1 35.5 6 1.4 6 0.8 4 0.8 2.5 0.4 2 0.4 0.1 100 0.1	
R406672 All (TAR74	80 5 ppm	82 MV	V 279 Areas	106 HH = H	1.25 opeful Hill	23	188	62	3	0.1	2	14	1 6	65 0	.05 2.7	5 1.	6 13	0.00	5 0.1	29.3	7.91	5.72	0.55	0.74	1.9	250	706	50	82.5	39.5	9.6		33.5	33.5 6.5	33.5 6.5 1.6	33.5 6.5 1.6 6	33.5 6.5 1.6 6 1	33.5 6.5 1.6 6 1 5	33.5 6.5 1.6 6 1 5 1	33.5 6.5 1.6 6 1 5 1 3	33.5 6.5 1.6 6 1 5 1 3 0.4	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5 0.4	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5 0.4 0.1	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5 0.4 0.1 100	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5 0.4 0.1 100	33.5 6.5 1.6 6 1 5 1 3 0.4 2.5 0.4 0.1 100 0.5	
					MW = N	Mullina Well																											_																

					T/	ABLE A2	.5								
			STATIS	FICS OF SO	il and s	TREAM	SEDIMEN	NT GEOC	HEMISTRY	1					
Element	Min	Mean	Max	Max/Mean	Element	Min	Mean	Max	Max/Mean	Element	Min	Mean	Max	Max/Mean	
Si	3.3	33	46	1.3	Сг	50	510	8250	16.2	Pb	2	14.7	44	3	
AL	0.08	4.7	12.4	2.6	Cu	2	16.5	78	4.7	Pr	<0.2	4.4	19.4	4.4	
Fe	0.34	3.9	56	14.3	Cu	<0.1	2.2	10	4.5	Rb	0.3	44	81	1.8	
Mg	0.04	1.3	13.6	10.4	Dy	<0.5	2.1	4	1.9	Sb	<0.2	0.19	0.6	3.2	
Ca	0.03	2.3	16.8	7.3	Er	<0.5	1.2	2	1.6	Sm	<0.5	3	9.5	3.1	
K	0.01	1.1	1.9	1.7	Eu	<0.2	0.7	2.4	3.4	Tb	<0.2	0.37	0.8	0.3	
Ti	0.01	0.25	1.6	6.4	Gd	≺2	2.3	6	2.6	TI	<0.1	0.3	1	3.3	
Ag	2	7.6	45	5.9	Ho	≺0.2	0.44	0.8	1.8	Tm	<0.2	0.17	0.4	2.35	
As	<0.5	3.5	37	10.5	La	<0.5	17.3	89	5.1	U	<0.05	1.2	7.6	6.3	
Au	<0.2	0.9	6.4	7.1	Lu	≺0.2	0.25	1.8	7.2	V	2	81	1220	15	
Ва	49	691	4670	6.7	Mn	28	265	1580	5.9	W	<0.5	0.9	5.5	6.1	
Bi	<0.1	0.18	1.4	7.7	Mo	≺0.2	0.66	4.2	6.4	Yb	<0.5	1.2	2.5	2	
Ce	1	33	169	5.1	Nd	<0.5	16	67	4.2	Zn	5	38	102	2.6	
Co	2	14.6	204	13.9	Ni	6	145	3550	24.4	Zr	10	176	470	2.6	
	Uni	ts are as	; given ir	n Table A2.1											

Image: Normal Subset in a service							TA	BLE A	2.6										
R Sample No N Site Field No Description Bedrock SU2 A203 Fe203 Mn0 Mn0 Mn0 N20 R20 R20 </th <th></th> <th></th> <th></th> <th>S</th> <th>ILCRE</th> <th>TE an</th> <th>d GRANI</th> <th>FIC SA</th> <th>PROL</th> <th>ITE C</th> <th>HEMIS</th> <th>STRY</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>				S	ILCRE	TE an	d GRANI	FIC SA	PROL	ITE C	HEMIS	STRY							
Horo SampleNo x y Ste Peld No Description Bedrock Stol2 AL203 Fe203 Mn0 Mag0 C.30 Na20 K20 T102 P205 Bis R622561 06-02434 514881 6566206 3 H02 Grante saprolite Grante 50.36 23.13 1.10 0.005 0.67 0.11 2.51 0.29 0.11 0.001 16 R622572 08-02445 512961 6566754 18 H11 Grante saprolite Grante 62.06 17.16 1.48 0.007 0.76 0.30 1.50 0.59 0.34 0.007 1.83 R622562 06-02435 514881 6566754 18 H02A Grante 67 1.12 1.24 1.10 0.012 2.15 12.77 0.56 1.14 0.22 0.03 0.32 0.02 0.03 0.32 0.02 0.33 0.02 0.33 0.02 0.33 0.02 0							-												_
R622651 08-02434 514681 6566206 3 H02 Granite sapolle Granite sapolle cabonaled 50.36 23.13 1.10 0.007 0.67 0.11 2.51 0.29 0.11 0.001 16 R622577 08-02445 512961 6566754 18 H11 Granite sapolle Granite sapolle cabonaled Granite 48.72 12.49 1.10 0.012 215 12.77 0.56 1.14 0.27 0.023 0.32 0.03 0.32 0.023 0.32 0.03 0.32 0.02 0.03 0.32 0.02 0.03 0.32 0.02 0.03 0.32 0.02 0.03 0.32 0.02 0.03 0.32 0.02 0.33 0.02 0.03 0.32 0.02 0.33 0.02 0.33 0.02 0.03 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30	R No	SampleNo	×	у	Site	Field No	Description	Bedrock	Si02	Al203	Fe203	MnO	MgO	CaO	Na20	K20	Ti02	P205	Ba
R622572 0802445 51281 6566754 18 H12 Grante saprolle caloritation Grante 62.06 17.16 1.48 0.007 0.76 0.30 1.50 0.59 0.44 0.017 188 R622571 0802445 514881 6566764 18 H11 Grante saprolle caloritation Grante saprolle Grante saprolle Grante saprolle Grante saprolle 1.14 0.022 215 12.77 0.56 1.14 0.27 0.023 0.03 0.32 0.023 0.03 0.32 0.023 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.00 0.02 2.03 0.00 0.02 2.03 0.00 0.02 2.03 0.00 0.02	R622561	08-02434	514681	6566206	3	H02	Granite saprolite	Granite	50.36	23.13	1.10	0.005	0.67	0.11	2.51	0.29	0.11	0.001	16
R622571 08-02444 512961 6566754 18 H11 Grante septolte cabonated inicidited and inicidited	R622572	08-02445	512961	6566754	18	H12	Granite saprolite	Granite	62.06	17.16	1.48	0.007	0.76	0.30	1.50	0.59	0.34	0.017	180
R622562 08-02435 514681 6566206 3 H02A Granite spocite silicified adbanated carbonated 91.80 2.65 1.94 0.008 0.23 0.19 0.02 0.03 0.32 0.023 97 R622562 08-02436 514681 6566206 3 H028 Silicrete Granite 95.16 0.12 0.88 0.008 0.03 0.05 0.24 0.02 2.33 0.006 300 R622567 08-02440 509836 6566876 13 H06 Silicrete Granite 96.12 0.19 0.63 0.008 0.02 0.05 0.00 0.02 2.38 0.026 92.32 R622567 08-02449 512932 6567318 21 H158 Silicrete with chalcedory 1 98.60 1.05 8.40 0.019 0.04 0.05 0.01 0.02 2.40 0.026 92.7 R622560 08-0243 513413 6567185 1 H01 Silicrete with chalcedory	R622571	08-02444	512961	6566754	18	H11	Granite saprolite - carbonated	Granite	48.72	12.49	1.10	0.012	2.15	12.77	0.56	1.14	0.27	0.024	297
R622563 08-02440 509336 5566876 13 H028 Silcrete Granite 95.16 0.12 0.88 0.008 0.02 0.05 0.02 2.33 0.006 300 R622567 08-02440 509336 5566876 13 H06 Silcrete lag ? 92.32 0.47 2.86 0.013 0.05 0.00 0.02 2.12 0.011 100 R622567 08-02449 512332 6567318 21 H158 Silcrete lag ? 92.32 0.47 2.86 0.013 0.05 0.01 0.02 2.40 0.026 92.32 R622560 08-02433 513413 6567185 1 H01 Silcrete with chalcedomy lingments 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 42.17 R622560 08-02433 513413 6567185 1 H01 Silcrete with chalcedomy lingments 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 42.17	R622562	08-02435	514681	6566206	3	H02A	Granite saprolite silicified and carbonated	Granite	91.80	2.65	1.94	0.008	0.23	0.19	0.02	0.03	0.32	0.023	97
R622567 08-02440 509836 6566876 13 H06 Silcrete Grante 96.12 0.19 0.63 0.00 0.02 0.00 0.02 2.38 0.026 111 R622575 08-02448 512932 6567318 21 H15A Silcrete lag ? 92.92 0.47 2.86 0.013 0.05 0.09 0.01 0.02 2.12 0.011 180 R622576 08-02449 512932 6567318 21 H15B Silcrete lag ? 86.60 1.05 8.40 0.019 0.04 0.05 0.01 0.02 2.40 0.026 92.7 R622560 08-02433 513413 6567185 1 H01 Silcrete with regenents UMaic 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 42.7 SampleNo Ce Ci	R622563	08-02436	514681	6566206	3	H02B	Silcrete	Granite	95.16	0.12	0.88	0.008	0.03	0.05	0.24	0.02	2.33	0.006	302
R622575 08-02449 512332 6567318 21 H15A Silcrete lag ? 92.92 0.47 2.86 0.013 0.05 0.01 0.02 2.12 0.011 180 R622576 08-02449 512332 6567318 21 H15B Silcrete lag ? 86.60 1.05 8.40 0.019 0.04 0.05 0.01 0.02 2.40 0.026 927 R622560 08-02433 513413 6567185 1 H01 Silcrete with chalcedory tragments UMatic 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 427 SampleNo Ce CI Cr Co	R622567	08-02440	509836	6566876	13	H06	Silcrete	Granite	96.12	0.19	0.63	0.008	0.02	0.05	0.00	0.02	2.38	0.026	115
R622576 08-02449 512932 6567318 21 H158 Silcrete lag ? 86.60 1.05 8.40 0.019 0.04 0.05 0.01 0.02 2.40 0.026 927 R622560 08-02433 513413 6567185 1 H01 Silcrete with chalcedony fragments 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 427 c	R622575	08-02448	512932	6567318	21	H15A	Silcrete lag	?	92.92	0.47	2.86	0.013	0.05	0.09	0.01	0.02	2.12	0.011	1805
R622560 08-02433 513413 6567185 1 H01 Silcrete with ringments UMaric 91.87 0.39 1.61 0.024 0.16 0.19 0.08 0.02 3.13 0.007 427 SampleNo Ce Cl Cr Co Ce	R622576	08-02449	512932	6567318	21	H15B	Silcrete lag	?	86.60	1.05	8.40	0.019	0.04	0.05	0.01	0.02	2.40	0.026	927
Image: Constraint of the second sec	R622560	08-02433	513413	6567185	1	H01	Silcrete with chalcedony fragments	UMafic	91.87	0.39	1.61	0.024	0.16	0.19	0.08	0.02	3.13	0.007	427
SampleNo Ce Cl Cr Co Cu Ga La Ni Nb Pb Rb S Sr V Y Zn Zr Ag 08-02434 14 36300 26 2 <7																			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SampleNo	Ce	Cl	Cr	Co	Cu	Ga	La	Ni	Nb	РЬ	Rb	S	Sr	V	Y	Zn	Zr	Ag
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	08-02434	14	36900	26	2	<7	99	2	<2	<1	18	7	330	14	28	2	3	51	< 0.5
08-02444 38 3020 35 4 1 17 18 11 <2	08-02445	105	20580	21	4	16	20	66	17	2	33	15	120	26	60	14	31	106	< 0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08-02444	38	3020	35	4	1	17	18	11	<2	22	37	590	131	39	7	32	93	< 0.5
08-02436 9 1890 15 3 4 <1	08-02435	12	30	18	3	5	9	<1	17	5	17	<5	240	17	61	4	1	266	< 0.5
08-02440 12 10 12 5 2 3 <6	08-02436	9	1890	15	3	4	<1	1	<5	44	30	<2	320	28	56	13	<1	506	< 0.5
08-02448 1 40 25 3 6 5 0 0 35 25 <2	08-02440	12	10	12	5	2	3	<6	<5	91	25	<2	230	8	30	18	2	683	< 0.5
08-02449 19 20 54 <4 13 11 7 6 43 40 <4 380 32 186 22 4 1395 <0. 08-02433 10 630 2222 10 6 25 7 35 26 35 1 950 37 115 9 157 417 <0.'	08-02448	1	40	25	3	6	5	0	0	35	25	<2	710	56	93	13	3	607	< 0.5
08-02433 10 630 2222 10 6 25 7 35 26 35 1 950 37 115 9 157 417 <0. 08-02433 10 630 2222 10 6 25 7 35 26 35 1 950 37 115 9 157 417 <0.	08-02449	19	20	54	<4	13	11	7	6	43	40	<4	380	32	186	22	4	1395	< 0.5
SampleNo As Sb W Mo Cd Bi TI Sn Te Ti/Zr Image: Constraint of the constr	08-02433	10	630	2222	10	6	25	7	35	26	35	1	950	37	115	9	157	417	< 0.5
SampleNo As Sb W Mo Cd Bi TI Sn Te Ti/Zr Image: Constraint of the co																			
SampleNo As Sb W Mo Ld Bi II Sn Te II/21 Image: Constraint of the constr	Carrelable	Å -	CL		14-	L	D:	TI	C	Τ-	T: /7.								
U8-02434 3 <0.2 0.5 1.4 <0.5 <0.1 0.1 2 <0.2 13 08-02445 4 <0.2 1 0.6 <0.5 0.1 0.1 1 <0.2 19 <td>Sampleivo</td> <td>AS</td> <td>3D</td> <td>W</td> <td>M0</td> <td></td> <td>BI .C.1</td> <td>11</td> <td>5n</td> <td>10</td> <td>17/21</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Sampleivo	AS	3D	W	M0		BI .C.1	11	5n	10	17/21								
U8-02445 4 <0.2 1 0.6 <0.5 0.1 0.1 1 <0.2 19 08-02444 3 <0.2	08-02434	3	<0.2	0.5	1.4	<0.5	<u.1< td=""><td>0.1</td><td>2</td><td><0.2</td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></u.1<>	0.1	2	<0.2	13								
08-02444 3 <0.2 0.5 0.2 <0.5 <0.1 0.3 <1 <0.2 17	08-02445	4	<0.2	1	0.6	<0.5	0.1	0.1	1	<0.2	19								
	08-02444	3	< 0.2	0.5	0.2	< 0.5	< 0.1	0.3	<1	< 0.2	17								
08-02435 8 0.2 0.5 1.8 <0.5 <0.1 <0.1 2 <0.2 7	08-02435	8	0.2	0.5	1.8	< 0.5	<0.1	< 0.1	2	< 0.2	7								
08-02436 3.5 0.4 2 5.6 <0.5 <0.1 <0.1 3 <0.2 28	08-02436	3.5	0.4	2	5.6	< 0.5	<0.1	<0.1	3	<0.2	28								
08-02440 1 0.4 2 5.6 < 0.5 < 0.1 < 0.1 5 < 0.2 21	08-02440	1	0.4	2	5.6	<0.5	<0.1	<0.1	5	<0.2	21								
	08-02448	35	0.6	3	2.6	<0.5	01	<01	4	<0.2	21								
	08-02449	75	0.0	Ä	4.4	(0.5	0.5	<0.1	8	(0.2	10								
	08-02433	3	0.6	10	5.4	20.5	0.3	0.1	3	20.2	45			l					
	30 02400	5	0.0	.0	0.4	.0.0	0.2	0.1	5	10.2	-70								

											TA	BLE	A2	.7													
					(CAL	CR	ETE	ES I	FRO	DM	GLE	NL	от	ΗG	iOL	D N	ИN	Ε								
				Si	AI	Fe	Ca	Mg	К	Ti	Aq	AG CN	As	Au	Ba	Bi	Cd	Ce	Со	Cr	Cu	CU CN	Dy				
R No	FieldNo	LabSeqNo	LibNo	%	%	%	%	%	%	%	ppm	ppb	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	 ppm	ppm				
R622584	H33	L08-02516	08-02555	20.1	3.17	1.63	15.6	2.4	1.02	0.18	4	915	18	308	1480	<0.1	<0.5	41.5	6	150	36	8.2	2				
R622585	H34	L08-02561	08-02556	20.8	2.98	1.59	16.1	3.14	0.91	0.17	3.5	685	20	239	1760	<0.1	<0.5	35	6	50	28	6	2				
	Er	Eu	Gd	Но	La	Lu	Mn	Мо	Nd	Ni	Pb	Pr	Bb	Sb	Sm	Sn	ТЬ	Te	TI	Tm	U	v	w	Yb	Zn	Zr	Ti/Zr
FieldNo	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
H33	1	0.6	2	0.4	22	0.2	102	0.6	18	18	36	5.2	34	1.4	3	<10	0.4	<0.2	0.3	<0.2	4.6	58	< 0.5	1	49	130	14
H34	1	0.6	2	0.4	19	<0.2	104	0.4	16	12	- 33	4.4	31	1.6	3	<10	0.4	0.2	0.3	< 0.2	4.3	60	< 0.5	1	40	120	14

									ТАВ	LE /	42.8	3											
						M	AGI	NET	IC G	RAN	IULI	ES IN	LAG										
							XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	×BF	XRF	×BF	XRF	XRF	XBF	XRF	XRF
				Coordinate	es		SiO2	Al203	Fe203	MnO	MgO	CaO	Na2O	K20	TiO2	P205	Ba	Ce	CI	Cr	Со	Cu	Ga
R No	FieldNo	LabSeqNo	LibNo	×	у	Description	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R622579	H 0020	L08-02442	08-02451	513307	6567147	Mag lag	4.23	8.567	77.99	0.043	0.13	0.16	0.01	0.02	0.828	0.04	1683	<24	800	16211	32	8	45
R622580	H 0021	L08-02456	08-02452	513264	6567033	Mag lag	3.73	9.133	78.09	0.034	0.1	0.08	0.08	0.021	0.762	0.039	1285	<16	850	17230	39	<1	39
R406797	R406797	L08-02555	08-02541	513224	6567375	Mag lag	7.12	7.33	81.35	0.043	0.12	0.27	-	0.036	1.151		4670	58		8250	12	17	-
	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	ICP-MS(1)											
	La	Ni	Nb	РЬ	Rb	S	Sr	V	Y	Zn	Zr	Ag	As	Sb	W	Mo	Cd	Bi	TI	Sn	Te		
FieldNo	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
H 0020	<7	549	16	54	0	660	72	789	10	15	163	< 0.5	19	1	1.5	4.6	< 0.5	1.2	0.2	3	0.2		
H 0021	<7	636	19	49	<1	520	49	721	10	21	151	< 0.5	19	1.4	1.5	4.6	< 0.5	0.9	0.1	2	0.4		
R-406797	9.5	532	-	39	1.4	-		1200		33	130	< 0.5	10	0.6	1	2.2	< 0.5	1.4	< 0.1	<10	0.6		

						TAB	LE /	A2.9	ļ														
				SAPI	ROC	AND SAPROLITE	S F	RO	N UL	.TR/	۱MA	FIC	RC	OCKS									
							XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	
R No	FieldNo	LabSeqNo	LibNo	X Loc	y y	Description	\$102	AI2U3 %	Fe2U3 %	MnU %	MgU %	CaU %	Na2U %	K2U %	102	P205 %	Ba ppm	Le ppm	DI ppm	Dr ppm	Lo ppm	Du ppm	
R622573	H 0013	L08-02449	08-02446	512977	6566783	Amphibolite saprock	51.30	11.09	11.27	0.125	11.04	8.23	3.19	0.56	0.61	0.007	338	<1	20	1290	50	53	
R622581	H 0022A	L08-02436	08-02453	513154	6566977	Ferruginous saprolite of ultramafic	9.08	1.37	70.37	0.304	0.85	0.28	0.10	0.07	0.08	0.027	3333	16	1280	719	277	9	
R622582	H 0022B	L08-02440	08-02454	513154	6566977	Ferruginous saprolite of ultramafic	39.03	1.23	45.98	0.332	0.72	0.18	0.39	0.05	0.05	0.028	473	18	3090	1011	260	16	
FieldNo	XRF	XRF	XRF	XRF	XRF	XBF	XRF	XRF	XRF	XRF	XRF	XRF		ICP-MS(1)									
	Ga	La	Ni	Nb	Рb	Rb	S	Sr	V	Y	Zn	Zr	Ti/Zr	Ag	As	Sb	W	Mo	Cd	Bi	TI	Sn	Te
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		ppm									
H 0013	13	Ó	128	4	18	16	110	216	228	15	29	40	92	< 0.5	1.5	< 0.2	< 0.5	< 0.2	< 0.5	0.1	0.2	<1	0.2
H 0022A	<2	8	2841	10	7	3	1980	141	97	14	95	14	36	< 0.5	4.5	0.2	< 0.5	0.6	< 0.5	0.1	< 0.1	3	< 0.2
H 0022B	7	15	2678	5	3	6	430	65	170	23	85	1	324	< 0.5	6	< 0.2	0.5	0.6	< 0.5	< 0.1	0.3	1	< 0.2

										٦	FABL	Ε <i>Ι</i>	42.1	0														
MA	GNE	ΓΙС	ANI	D NO	N-I	MAC	GNE	TIC	H	EAV	Y MI	NE	RAL	. co	NC	E	NT	RA	TES	5 -	SF	ΈC		N	R4(06	800)
Ident	SiO2	AI203	Fe203	MnO	MgO	CaO	Na20	K20	Ti02	P205	Ba	Ce	Cl	Cr	Co	Cu	Ga	La	Ni	NЬ	ΡЬ	RЬ	S	Sr	V	Y	Zn	Zr
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
R406800 magnetic	6.53	10.32	73.18	0.089	0.29	0.11	0.07	0.03	0.96	0.076	1751	<21	1770	13827	45	21	49	6	633	15	65	<1	750	90	920	7	33	211
R406800 nonmagnet ic	17.37	15.69	49.83	0.065	0.38	0.14	0.12	0.04	0.73	0.079	5722	<26	2460	8291	66	65	37	0	1232	11	32	<2	2060	211	777	17	54	135
A2.1 Aircore Drilling Assay Logs: Lake Harris, Hopeful Hill & Mullina Well

EXPLANATION

	Soil and sand
	Colluvial sediment
	Sediment
	Sediment - calcified
	Pedolith
	Upper saprolite
	Lower saprolite
	Saprock - gneiss
	Saprock - felsic
	Saprock - mafic
	Saprock - Mg-rich basalt
	Saprock - ultramafic
××××××× ×××××××× ×××××××	Protolith - granitoid
	Protolith - granite
000000	Protolith - felsic volcanic
	Protolith - gneiss
	Protolith - mafic
******	Protolith - basalt
	Protolith - Mg-rich basalt
	Protolith - ultramafic

The horizontal black line on the left of the column indicates the position of the unconformity as interpreted from the geochemistry, where different from the logging.

Common symbol reference key to the following down drillhole assay plots.

A2.11 Assay Logs for Lake Harris: 3 examples from the 21 aircore drillholes. All are available as paired pdf files from the CD-ROM, Appendix 2 in Folder – "Lake Harris PDF's".

Regolith Characterisation & Geochemistry - Harris Greenstone Belt, Appendices



Lake Harris: down drillhole assay profile - thin transported cover on weathered Glenloth Granite.



Lake Harris: down drillhole assay profile – thin transported cover on weathered ultramafic greenstone. Compare with cored drillhole KLHRDD-1.



Lake Harris: down drillhole assay profile – transported cover on weathered basaltic greenstone.

A2.12 Assay Logs for Hopeful Hill: 3 examples from the 12 aircore drillholes. All are available as paired pdf files from the CD-ROM, Appendix 2 in Folder – "Hopeful Hill PDF's".



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Hopeful Hill: down drillhole assay profile - thin transported cover on weathered ultramafic greenstone. Compare with cored drillhole THHRDD-1.



Hopeful Hill: down drillhole assay profile - thin transported cover on weathered mafic gneiss.



Hopeful Hill: down drillhole assay profile - transported cover on weathered felsic basement.

A2.13 Assay Logs for Mullina Well: 3 examples from the 22 aircore drillholes. All are available as paired pdf files from the CD-ROM, Appendix 2 in Folder – "Mullina Well PDF's".



Mullina Well: down drillhole assay profile - transported cover on weathered basaltic greenstone.



Mullina Well: down drillhole assay profile – thin transported cover on weathered granitic basement.





Mullina Well: down drillhole assay profile - transported cover on weathered ultramafic greenstone. Compare with cored drillhole TMWRDD-1.

A2.2 Diamond Drillcore Assay Logs, Lake Harris, Hopeful Hill & Mullina Well (Refer to CD Appendix 7 for pdf files or to Figs 18-20 in Volume 1)

A2.3 Soil Geochemical Plots, Lake Harris area. 3 examples from the 16 surface geochemical plots are provided overleaf. A further 2 are provided in Volume 1 as Figures 32 & 33.

All are available as pdf files from the CD-ROM, Appendix 2 in Folder –

"Lake Harris PDF's / SurfaceGeochemPlots".



Gold content of soil samples at Lake Harris showing both upper (20-150 mm) and lower (200-250 mm) media in relation to major geomorphic units.



Nickel content of soil samples at Lake Harris showing both upper (20-150 mm) and lower (200-250 mm) media in relation to major geomorphic units.



Zinc content of soil samples at Lake Harris showing both upper (20-150 mm) and lower (200-250 mm) media in relation to major geomorphic units.

APPENDIX 3

X-RAY DIFFRACTION ANALYSIS

A3.0 Background Explanation

 Table A3.1
 XRD mineralogy of drill core materials

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A3.0 Background Explanations

TABLE A3.1: XRD Mineralogy of drill core materials (refer also, Appendix 7 CD).

This table shows the XRD mineralogy of small spot specimens of materials (each briefly described) taken from the three diamond-cored drilling that investigated the regolith at Lake Harris (KLHRDD-1), Hopeful Hill (THHRDD-1) and Mullina Well (TMWRDD-1). The relative mineralogical abundances are semi-quantitative estimates only as the diffractions are influenced by mass absorption of materials with varied Fe content, by the crystallinity of the materials and by peak overlaps. The data are also available in digital form on the CD as Table_A3_1.xls.

Regolith Characterisation & Geochemistry - Harris Greenstone Belt, Appendices

						x	RD MINI	T. ERALOGY	ABLE AS OF DRIL	3.1 L CORE	MATERIA	LS							
Hole & Zone #	Eastin g	Northing	R numbe	Depth (m)	Sample description	Quartz	Kaolinite	Palygorskit e	Smectite	Smectite Chlorite	Clinochlor e	Tremolit e	Ferro- gedrite	K- Halite	Hallte	Muscovit e	Rutile	Goethite and/or	Maghomit e and/or
KLHRDD1			- r	. ,														hematite	chromite
Zone 53J	511863	6566452	619716	11.90	Very pale grey clay-rich colluvium - 1.70 m above	xx	xx		xx										
	511863	6566452	619717	14.14	Pale grey clay-rich plasmic zone - 0.55 m below unconformity	x	xxx	xx	xxx										
	511863	6566452	619718	16.50	Bright blue-green clay mineral in a clot	x	x	xx	xx	xxx		x							
	511863	6566452	619719	17.14	Pistachio-green clay saprolite			x	x	xxx	x								
	511863	6566452	619720	26.04	Pale, greenish clay as a fracture				xx	xxx									
	511863	6566452	619721	28.05	Bright Ni-green clay mineral infilling a fracture in saprock					xxx	***	xx		xx				<u> </u>	
	511863	6566452	619722	29.05	onclave Mid-grey saprock - weathered						~~~	***	×		v				
	£11000	GEGG AED	610722	21.05	serpentinite Bright pistachio green clay infill							~~~	^						
	511065	0000432	619723	31.05	saprolite-saprock				***						^				
	511863	6566452	619724	39.65	Pallid clay saprolite						xxx	XXX							
	511863	6566452	619725	42.90	within saprock						xxx	XXX	x						
	511863	6566452	619726	51.00	saprock-protolith						XXX	xx	X						
																		<u> </u>	
THHRDD1					Dad brown also all from the													<u> </u>	
Zone 53J	492082	6575794	619727	7.45	gravel sediment - 1.55 m above unconformity	xx	xx									x	x	x	
	492082	6575794	619728	9.75	Pale-brown clay-rich material of plasmic zone - 0.70 m below unconformity	x	x		xx									x	
	492082	6575794	619729	12.00	Pistachio-green clay saprolite - uniformly coloured interval				xx		x								
	492082	6575794	619730	16.20	Pale turquoise mineral veining a pistachio-green clay saprolite		x	хх	xx	xx	x								
	492082	6575794	619731	19.00	Dark olive-green clay in bi-colour clay saprolite breccia or pseudobreccia				xx		x								x
	492002	6575794	619732	19.00	Pistachio-green clay in bi-colour clay saprolite breccia or				xxx										
	492082	6575794	619733	18.80	Dark green clay in a wispy bi- colour clay saprolite				xxx										x
	492082	6575794	619734	25.00	Grey clay saprolite					xxx		xx	x						
	492082	6575794	619735	28.65	Dark blue-green lower saprolite -					xxx		xx	xx					<u> </u>	
	492082	6575794	619736	35.65	Dark grev protolith - sementinite					XX		XX	¥						
										~~		~~							
THEFTODA																			
TMWRDD1					Red-brown clav-rich colluvium -														
Zone 53J	461096	6592412	619737	0.97	contains quartz grit Dark red-brown clay-rich	xx	×									×	x	xx	
	461096	6592412	619738	11.00	material - weakly mottled plasmic zone	xx	x				×					x	x	XX	
	461096	6592412	619739	12.30	plasmic zone	xx	x				x						x	XX	
	461096	6592412	619740	17.05	Gley silty clay from megamottled plasmic zone	xx	xx				x						x	<u> </u>	
	461096	6592412	619741	17.00	Dark red mega-mottle from Fe oxidex-rich plasmic zone	x	x											xxx	
	461096	6592412	619742	23.07	Almost white clay, in gley part of mega-mottled clay saprolite	x	xxx												
	461096	6592412	619743	23.80	Bluish grey clay saprolite	x	xxx												
	461096	6592412	619744	29.28	Pale green, highly plastic clay saprolite - zone has much vellow Fe staining		xx		xx										
	461096	6592412	619745	35.10	Pale pistachio-green, highly plastic clay saprolite		x		xx										
	461096	6592412	619746	38.80	Greenish saprolite saprock with brown and yellow Fe oxide		x		xx										
	461096	6592412	619747	39.70	staining Green-grey saprock-protolith -						x	xxx						<u> </u>	
Notes:					aoshaunning													<u> </u>	
	XXX	Abundant Moderate	y ahundo	nt	1) Unconformity 2) Smectite is largely	4) Magher	nite and ch	nromite are	6) Coethit	e and hem	atite are diffic	ult to							
	X	Minor	,	-	montmorillonite 3) Chlorite and kaolinite are difficult to distinguish in the	difficult to 5) Smectit	distinguish te-chlorite	interlayered	distinguis	h in presen	ce of kaolinit	e							
					presence of smectite	Siag													

APPENDIX 4 PIMA

A4.0 Background Explanations

A4.1 PIMA (Portable Infrared Mineral Analyser).

A4.2 Spectral files (Refer to CD-ROM)

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A4.0 Background Explanations

A4.1 PIMA (Portable Infrared Mineral Analyser)

PIMA provides a means for identifying mineral species in drilled samples. The method relies on infrared energy from a calibrated source and a sample's absorption and reflection of that energy, then comparing that against a standard emission curve. PIMA works best on minerals containing the chemical species: OH, H₂O, CO₃, SO₄, OCl, PO₄, FeO, FeOH, etc; where those bonds respond to infrared exposure and absorb at specific wavelengths diagnostic of particular compounds. This system therefore works well for clays, micas, amphiboles, iron sesquioxides, carbonates, evaporitic minerals, zeolites and weathering or alteration zone minerals such as: micas, clays, carbonates, sulphates, phosphates, iron sesquioxides, etc . It cannot detect minerals such as: quartz, feldspar, pyroxene, garnet and nonferrous spinels. Spectral data are examined and compared using the proprietary software "The Spectral Geologist" or TSG. Spectra can be stacked to reflect down hole sampling and thereby reveal subtle and strong mineral changes or variability through a profile. This methodology is an adjunct to visual logging but can be a valuable laboratory and in-field tool in the weathered rock environment – especially in quickly appraising drill samples.

A4.2 Spectral files (Refer to CD-ROM, Appendix 7)

Spectral data for the Lake Harris greenstone outcrop and local environs are provided in the CD-ROM Folders and files, as specified below. Those hundreds of spectra have not been printed out herein to save on paper and colour printing.

- Folders: "KIN 37-43 + KOK 1-25" contain the PIMA infrared spectral absorption files, as generated by the PIMA device, for the 2001 drilling at Lake Harris. The files "LH 14-28" contain the PIMA infrared spectral absorption files generated for earlier MESA sponsored drilled samples at the Lake Harris outcrop area. All these files can be opened or accessed with the proprietary software "The Spectral Geologist". Each folder contains spectral data collected from aircore cuttings, fines + chips and for some core, at the specified drillhole and depths.
- Files: "LH greenstone, KX index_1.xls and LH greenstone, KX index_2.xls" are Excel spreadsheet files containing the first and second major mineral species, their confidence value, and their error value, as automatically identified by the proprietary software "The Spectral Analyst" or TSA (a part of The Spectral Geologist package). These spreadsheets also contain the derived KX_Index or 'kaolinite Crystallinity Index', as measured automatically using the dimensional ratios of kaolinite's distinctive deep spectral absorption feature (*c.f.* Pontual *et al.*, 1997, pp 45-55). Those KX indices proved to be far too noisy for use as a major unconformity locator when within the weathered ultramafic rock units, possibly primarily due to low kaolinite content. Some agreement however, was possible though for the weathered felsic terrain derived samples. Alternative crystallinity indices using smectite or hydromuscovite may prove to be more useful in weathered greenstone terranes. The raw spectral data provided in the included Folders will allow others to experiment further with those indices.

APPENDIX 5 PETROGRAPHY and AIRBORNE ELECTRO-MAGNETIC PROFILING

- A5.0 Background Explanations.
- A5.1 Petrography & sample descriptions, Tables A5.1 to A5.4.
- A5.2 Lake Harris Drill Section AEM derived conductivity profile.

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A5.0 Background Explanations

A5.1 Petrography & sample descriptions

Two summary tables contain the petrographic descriptions for samples examined in thin- or polished sections, polished blocks, sawn slabs, loose grains, grain separates or as an untreated field specimen. Table A5.1 has sample descriptions and petrographic summaries for surface regolith materials. Tables A5.2 to A5.4 contain petrographic summaries for the regolith drill core materials from KLHRDD-1, THHRDD-1, & TMWRDD-1, as observed in thin-section and sawn slabs. Most of those drill core materials were epoxy resin impregnated before thin-sectioning so as to preserve delicate weathering features, retain clays and other fragile alteration products, and provide the best undisturbed sections as was possible.

All drill core, cuttings, chiptrays, surface samples and sub-samples are retained for reference and further study, at the PIRSA Core Store Facility, 23 Conyngham St, Glenside, South Australia. Core, cuttings and sample inspections can be arranged through the PIRSA Core Store Facility Manager [ph: (08) 8279 9574, or Fax (08) 8338 1925]. All thin sections and polished blocks or mounts can be accessed for further study by reference to their PIRSA sample 'R number' at the same Facility.

A5.2 Lake Harris Drill Section AEM derived conductivity profile

In 2001 two survey strips (each 7.5 x 22 km) for airborne electro-magnetic characteristics (AEM) were flown for PIRSA over the Lake Harris and Hopeful Hill drilled areas by Fugro Airborne Surveys. The TEMPEST AEM system was used for this work. Geoscience Australia provided data processing, analysis and interpretation (Lane, 2001a). A conductivity data slice from the Lake Harris survey, matching the Lake Harris drill line between holes KOK 01 to KIN 43 is included for reference. The primary and derived or beneficiated data from these two AEM strips is available from both PIRSA Minerals Group or Geoscience Australia. However, some additional strips flown during the same AEM survey but outside of the Harris Greenstone Domain, remain Closed File Records and access would need to be negotiated through Geoscience Australia.

TABLE A5.1: Lake Harris NW corner, greenstone outcrop and surrounding environs. Surface sample descriptions and petrography of regolith materials from direct observation and by using: thin- or polished section or polished block evaluation with a microscope. [Note: all thin-sections & blocks are referred to by the PIRSA 'R number' reference.].

Field #	PIRSA #	East	North	Field Description	Petrographic Description
H1	R622560	513413	6567185	Silcrete with chalcedony fragments: the silcrete appears to overlie the saprolite of an ultramafic and is overlain in part by a calcrete-cemented colluvium with silcrete fragments. The whole is capped by a lag. Nearby is small colluvial fan or higher river terrace.	This consists of clasts of slabby chalcedony in a matrix of angular, strained metamorphic quartz grains, cemented by quartz and anatase. The chalcedony consists of layers of comb-textured, unstrained quartz lining voids, which are now largely filled with fine-grained quartz and anatase. The quartz of the matrix is very fine grained and the quartz- anatase ratio is variable.
H2	R622561	514681	6566206	Granite saprolite: an amphitheatre floored by granitic saprolite and edged by a silcrete with a carbonate veined silcrete breccia between. The carbonate clearly post-dates the silcrete. The upper part of the lag is brecciated with carbonate and this shows on the surface among the fragments of silcrete lag.	Parts consist of fibrous to flaky kaolinite, probably after K- feldspar, partly stained by aluminosilicate that forms delicate bands in voids. Set in this are strained angular to subangular grains of strained quartz. Other parts consist of finer, flaky kaolinite with a few flakes of hydromuscovite, probably after Na plagioclase, also set with strained metamorphic quartz. This has also been slightly stained by a brown, probably titaniferous material. The XRD indicates significant halite, probably lost in sectioning.
H2A	R622562	514681	6566206	Granitic silcrete. Site: an amphitheatre floored by granitic saprolite and edged by a silcrete with a carbonate veined silcrete breccia between. The carbonate clearly post-dates the silcrete. The upper part of the lag is brecciated with carbonate and this shows on the surface among the fragments of silcrete lag.	This consists largely of strained metamorphic quartz set in brown aluminosilicate cement and a probably older granular QAZ cement. Some subangular quartz grains are compound; others are more shardy and consist of single strained crystals. The cement is probably now kaolinite stained with Ti and Fe oxides.
H2B	R622563	514681	6566206	Silcrete. Site: an amphitheatre floored by granitic saprolite and edged by a silcrete with a carbonate veined silcrete breccia between. The carbonate clearly post-dates the silcrete. The upper part of the lag is brecciated with carbonate and this shows on the surface among the fragments of silcrete lag.	Angular and shardy strained metamorphic quartz set in a granular, fine-grained QAZ cement. The XRD indicates minor halite, probably lost in sectioning.

Petrologist.	IDM Robertson	CSIRO Exploration	n & Mining /	CRCLEME Perth	W Aust
I CH UIUgist.	I.D.MI. ROUGIISOII,	Conco Exploratio	n & winning /	CIC LEME, I UIII,	W. Aust.

Cont. overleaf.

НЗ	R622564	514624	6566515	Dune sand: a red-brown sand dune, very lightly cemented in the higher part and loose, with a few coarse grains concentrated in the swale. This laps onto the basement that is covered by a thin, orange-brown soil covered by a quartz-rich lag, through which vein quartz rubble protrudes.	Consists of subangular to angular grains, largely of strained quartz with lesser amounts of microcline and sericitised plagioclase. The smaller grains are angular to shardy. A few grains are of Fe- stained saprolite and some are Fe oxides. There is a trace of tourmaline and epidote. Each grain has a very thin hematite- stained rim.
H4	R622564	511520	6566767	Calcrete: small stream with calcrete exposed in the floor but no indication of the substrate.	This calcrete consists of a substrate of ferruginous kaolinite set with subrounded to subangular quartz and minor microcline, that has been invaded by many veinlets of fine-grained carbonate. The substrate may have been either a mafic saprolite and/or some form of recent sediment of mixed provenance (most likely).
H5	R622566	510885	6669728	Lag of Gawler Range Volcanics: an almost monomictic very coarse lag of angular partly weathered volcanic fragments with smaller, minor fragments of quartz and silcrete on a yellow earth. West side of playa.	Lava with phenocrysts of partly sericitised euhedral plagioclase and crystals of clino-pyroxene or amphibole, now completely altered to chlorite, in a fine- grained matrix of hematite-stained chlorite, quartz and feldspar (plagioclase and microcline). There are two chlorites here, lizardite and clinochlore.
Нб	R622567	509836	6566876	Silcrete - massive: high point near main access road. <i>In situ</i> quartz veins preserved as linear structures of coarse angular vein-quartz fragments.	A breccia of very angular and shardy quartz grains set in a QAZ cement. A few meandering veinlets indicate localised removal of the cement and replacement by a light-brown aluminosilicate cement.
H8	R622568	519586	6568066	Gypcreted dune developed beneath a pale yellow dune sand – favoured by rabbits. Exposed by a combination of aeolian deflation and gypsum heave.	A possibly porous mass or angular to shardy strained quartz grains with minor microcline in a ? anatase and carbonate cement. Field info?? Look at diffraction chart.
H9	R622569	519770	6567534	Yellow dune with a lag of coarse quartz on surface.	Consists of angular to shardy strained quartz with lesser amounts of fresh microcline and sericitised Na plagioclase. A few of the larger grains are round. Traces of black Fe oxides, chert grains and very small grains of tourmaline. Most grains have an extremely thin coating of hematite or goethite. Material needs size fractionation

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H10	R622570	512961	6566754	Granitic detritus: developed on a calcrete infused granitic saprolite. The detritus is slightly hardpanised and consists of angular silcrete, ferruginised silcrete, quartz and granite saprolite fragments in an orange-brown gritty-sandy matrix. The upper part is infused with calcrete and the lower part has a pebbly lag of silcrete and quartz.	A grain-supported mass of granitic detritus consisting of strained quartz, fresh microcline, sericitised plagioclase and granitic clasts cemented by Fe-stained kaolinite.
H11	R622571	512961	6566754	Carbonated granite saprolite: greenish-grey granitic saprolite cut by linear to meandering light-brown carbonate veinlets.	Consists of patches and sinuous lenses of fresh, strained quartz with a sutured to granoblastic polygonal structure. These are set in a mass of flaky kaolinite and hydromuscovite after Na plagioclase and worm-like kaolinite probably after microcline. The boundaries between the types of kaolinite are blurred, suggesting some recrystallisation of clays. The whole has peen partly infused and veined with granular carbonate.
H12	R622572	512961	6566754	Granite saprolite. greenish-grey granitic saprolite cut by linear to meandering light-brown carbonate veinlets.	Similar fabric to the previous but the two types of kaolinite are very distinct. The XRD indicates a significant halite component, probably lost in sectioning. Probable seepage of saline groundwaters has deposited halite by evaporation.
H13	R622573	512977	6566783	Amphibolite schist saprock: pods of black hornblende amphibolite and schistose green tremolitic amphibolite are intruded by granite and grey quartz. These form very low outcrops onto which an orange sandy earth laps.	Consists of a schistose fabric of flaky magnesian hornblende and finer magnesian anthophyllite with patches of albite. This is cut by fractures along which weathering has penetrated, altering the ferromagnesians to smectite (nontronite).
H14	R622574	513012	6566880	Ferruginous saprolite lag: a coarse, angular, monomictic lag of brown to purple lithic clasts probably covers ultramafic schist subcrop.	Consists mostly of kaolinite, permeated with goethite. There are some ragged crystals of hematite, possibly after magnetite altered to goethite (martite).
H15A	R622575	512932	6567318	Silcrete lag fragment: a lag of silcrete, quartz and ferruginous silcrete on an orange-brown soil.	Consists of large clasts of compound metamorphic quartz grains with a sutured to polygonal fabric and smaller clasts of angular to shardy strained quartz set in a granular QAZ cement. Parts of the cement are slightly stained with Fe-oxides.
H15B	R622576	512932	6567318	Ferruginous silcrete lag fragment: a lag of silcrete, quartz and ferruginous silcrete on an orange-brown soil.	Similar to the above but the QAZ cement has been largely replaced by hematite??

H17	R622577	513224	6567375	Black component of lag: black component selectively sampled. A lag of silcrete, quartz and ferruginous silcrete on an orange-brown soil.	Porous, massive haematitic goethite, in places with a fingerprint fabric after a mafic/ultramafic saprolite. This has been extensively ferruginised with some fabric loss. Some voids are rimmed by weakly banded goethite.
H19	R622578	513082	6566983	Hardpan: a lag of silcrete, quartz and ferruginous silcrete on an orange-brown soil.	A polymictic, clast-supported sediment of compound clasts of strained, sutured quartz, microcline, sericitised plagioclase, fresh granite, Fe- oxide granules and weathered magnesian schist (hornblende, anthophyllite and plagioclase slightly stained with goethite) set in a matrix of Fe-stained kaolinite and montmorillonite. Input to this sediment has been from various lithologies and from various parts of the weathered profile, from fresh to deeply weathered.
H20	R622579	513307	6567147	Mag lag: a coarse lag of silcrete, quartz, chalcedony slabs and ferruginous silcrete with a few small black ferruginous granules on a yellow-brown, sandy soil.	Massive maghemite and hematite. A few granules show weakly differentiated but thick cutans. A few contain quartz clasts.
H21	R622580	513264	6567033	Mag lag: a coarse lag of silcrete, quartz, chalcedony slabs and ferruginous silcrete with a few small black ferruginous granules on a yellow-brown, sandy soil.	Massive maghemite and hematite. A few granules show weakly differentiated but thick cutans. A few contain quartz clasts.
H22A	R622581	513154	6566977	Ferruginous saprolite of ultramafic: a coarse, angular lag of this partly mantles outcrop. Some is flinty, other spongy.	It consists largely of goethite, which has permeated and largely replaced magnesian amphiboles and chlorite, which now remain as a few relics.
H22B	R622582	513154	6566977	Ferruginous saprolite of ultramafic	Similar to the above but silicate relics are far less apparent. Some voids are filled with microcrystalline opaline silica and some carbonate.
H23	R622583	511520	6566767	Calcrete from modern stream	A matrix-supported mass of slightly corroded clasts of quartz, microcline, sericitised plagioclase and chert embedded in several generations of calcite which varies from dark brown and fine grained to pale, slightly coarser grained and slightly banded. One clast is very fresh quartz- plagioclase porphyry. Linear and sinuous veins of coarse carbonate cut the whole.

Lake Harris NW corner, greenstone outcrop area. Surface sample description and petrography of regolith duricrust using direct observation and from a polished block, inspected with a microscope. Petrologist: M.J. Sheard, PIRSA Geological Survey Branch / CRC LEME, Adelaide, S. Aust.

renoid	gist. MI.J.	Sheard, I	INSA UCUI	ogical Survey Drahen / CRC LL	ME, Aucialuc, S. Aust.
Field #	PIRSA #	East	North	Field Description	Petrographic Description & Key geochemical indicators
CA24	R367509	513395	6567151	Rounded silcrete boulder, 0.3 m diameter, pale brownish grey. Float collected in 1997 near main silcrete outcrop overlying weathered greenstone along the lake shore where it forms low stony rises and a blocky capping on weathered greenstone to ~1 m thick. The Harris Greenstone—Glenloth Granite sheared contact lies only ~30 m from where this sample was collected.	Silcrete (polished slab). Angular laths of a translucent-grey-brown to greenish grey chalcedony 5-50 mm long & 1-5 mm thick enclosed in pale yellow-grey silcrete cementing a colluvial sand derived from both granitic and ultramafic source rocks. Bulk assay of a portion from this specimen revealed: Cr 63 ppm, Ni 6 ppm, Ti 1.83%, V 39 ppm and Y 11 ppm.

TABLE A5.2: Petrography of Lake Harris regolith drillhole KLHRDD-1 core say
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Lake Harris, cored hole #: KLHRDD-1: Coords: Zone 53J, 0511863mE, 6566452mN, Attitude: vertical.						
Total Depth: 51.25 m. Regolith materials, epoxy-resin impregnated, and 50x75 mm thin-sections.						
Petrologis	st: I.D.M. Robert	son, CSIRO Expl	oration & Mining / CRC LEME, Perth, W. Aust.			
PIRSA	Thin-Sect ⁿ	Depth (m)	Petrography Description			
R No.	No.	• • • •				
406673	R406673	2.80-2.87	Hardpanized Colluvium. Closely packed subangular to sub- round quartz grains, probably from a dismembered granite (relatively fresh), are set in an Fe-stained aluminosilicate cement. The grains consist of sutured quartz, fresh microcline, sericitized plagioclase and compound grains of these three component minerals. There is also a trace of epidote and chert grains. The dark red cement is banded in part and probably infilled voids in a sedimentary grain mesh. A small amount of the matrix consists of red-stained phyllosilicates.			
406674	R406674	4.95-5.02	Colluvial Sediment . Closely packed subangular to subrounded grains of quartz, chert, vein quartz and lesser sericitized plagioclase, fresh microcline and ferricrete clasts, set in an aluminosilicate/phyllosilicate cement which is less Fe-stained than that higher in the profile. There is less microcline and feldspar and more quartz than in the sediments at a shallower depth. The feldspars are more weathered and Fe-stained (prior to sedimentation). The ferricrete contains both angular, shardy quartz grains and highly rounded grains (water worn).			
406675	R406675	6.50-6.58	Colluvial Sediment. The clasts are small, angular to sub-round and are largely of quartz, vein quartz (with some comb fabrics) and lesser sericitized feldspar and minor fresh microcline. With these are a few larger clasts (10-30 mm) of ferricrete, silcrete, chert and weathered granite. These are closely packed in an Fe- mottled phyllosilicate matrix with some banded aluminosilicate cement.			
406676	R406676	9.33-9.40	Colluvial Sediment. Smaller (0.5 mm) subangular grains of quartz and sericitized plagioclase and larger grains (1-1.5 mm) of subrounded quartz, sericitized feldspar and ferruginous silcrete are loosely packed into a matrix of flaky clay and banded aluminosilicate. There is more matrix than in those at a shallower depth.			

406677	R406677	10.65-10.75	Colluvial Sediment . The sediment consists of fine-grained.
			angular quartz (1-2 mm), coarser (5 mm) sub-round strained
			quartz, minor sericitized plagioclase, a trace of fresh microcline
			and chert loosely packed into a flaky phyllosilicate (kaolinite-
			smectite-hydromuscovite) matrix A few larger fragments
			(10 mm) are of gneiss (highly strained quartz and sericitized
			plagioclase) Parts of the matrix are brown and mottled with
			goathite
406678	P406678	12 15 12 20	Collusial Sodiment Pound large grains (2 mm) and smaller
400078	K 400078	12.13-12.20	angular grains (0.5 mm) are loosely packed in a kaolinite
			smactite hydromuscovite matrix that has been mottled by Fe
			oxides. Some quartz closts are a strained compound mossic of
			sutured to grapoblastic grains
406670	P406670	13 47 13 55	Colluvial Sodiment Closts of quartz are dispersed in a clov
400079	K400079	15.47-15.55	hydromuscovite metrix. This section varies from lossely necked
			at the base to closely peaked at the ten. Feldeners are absent
			At the base to closely packed at the top. Feldspars are absent.
			mothing by goethine and some nematice has variably stamed the
			matrix unoughout. Sinusoidal venis of cryptocrystanne sinca
			header infougnout the matrix and are probably related to
106690	D406690	12 75 12 90	Collection Collection for the second to subseque are in a mainly of
400080	K400080	15.75-15.80	Control Sectiment. Sub-round to subangular grains, mainly of
			quartz with minor chert, sencicized praglociase, cray penets and
			goethie-quartz nodules, are loosely packed into a matrix of
			kaolinite, smectite and hydromuscovite. This has been mottled to
			yellow and brown by goethite that has variably stained the matrix.
106601	D 40 ((01	17.00.17.07	Some voids have been infilled by banded aluminosilicate.
406681	R406681	17.00-17.07	Lower Saprolite of Ultramatic with Spinitex Fabric. The
			saprolite consists of a very fine mesh of hydromuscovite, smectite
			and chlorite, in which there are remnant needles of unaltered
			tremolite. However, this fine mesh still preserves the distinctive
			bladed pyroxene spinitex structure in which illitic clay has
			replaced the pyroxene and the very fine, dusty iron ores have
			picked out the interstices of the spinifex structure. Some of the
			pyroxene pseudomorphs are cored with a concentration of Fe-
10.5502	D 10 5 50 2		oxides. Weathering has lightly stained the rock.
406682	R406682	28.75-28.85	Fe-Stained Saprock of Ultramafic . The fabric and mineralogy
			of this saprock is similar to the bedrock below but large, diffuse
			patches have been stained by goethite developed along grain
			margins. Cracks in the fabric are infilled with clays and the
			material around the cracks appears bleached of iron staining,
			suggesting a cycling water table which placed this saprock
			alternately in an oxidising and then in a reducing environment.
			The iron ores show a slight parallel alignment, suggesting some
			palimpsest olivine spinifex structures as in the rocks below.
406683	R406683	49.70-49.77	Ultramafic Bedrock . Pale, acicular tremolite, probably after
			pyroxene, forms a mesh of randomly oriented needles in which lie
			patches of chlorite and tremolite, after olivine. Grains of anhedral
			iron ore, chromite or magnetite, occur mainly in the chlorite or
			between chlorite and tremolite and some form parallel bands,
			probably outlining an original olivine spinifex structure.
			Weathering is very minor and occurs along cracks that are partly
			filled with goethite and some goethite has lightly stained the
			amphiboles adjacent to the cracks.

Comments

- It seems likely that the sediments were deposited on soft, easily eroded ultramafic rocks that occupied low parts of the topography.
- The smectitic clay of the matrix was probably largely from erosion of mafic-ultramafic rocks and the kaolinite and hydromuscovite from weathered granitic materials. The upper part of the sediment is cemented to a hardpan by banded aluminosilicate. The matrix of the sediments below the hardpan consists of phyllosilicate and becomes more abundant with depth. Where it is less stained, it is a flaky mixture of phyllosilicates (XRD indicates kaolinite, smectite and hydromuscovite) and varies in birefringence from grey to first order yellow.
- The quartz clasts appear to have been derived locally from deeply weathered granites (characterized by small shardy grains), however some larger grains are more rounded, probably also granitic and have been transported further. Vein quartz was another source.
- Predominance of quartz clasts in the lower part of the sediments and the appearance of microcline and sericitized feldspar towards the top imply the progressive erosion of and provenance from a deeply weathered granitic/gneissic profile that progressively exposed less weathered materials with time.
- The bedrock intersections are relatively undeformed, allowing some of the original igneous fabrics to persist into the saprolite. It seems likely that different parts of the ultramafic flows have been intersected to show both olivine and pyroxene spinifex structures.

Total Depth: 39.25 m. Regolith materials, epoxy-resin impregnated, and 50x75 mm thin-sections.							
Petrologi	Petrologist: I.D.M. Robertson, CSIRO Exploration & Mining / CRC LEME, Perth, W. Aust.						
PIRSA	Thin-Sect ⁿ	Depth (m)	Petrography Description				
R No.	No.						
406684	R406684	4.52-4.58	Hardpanized Colluvium-Alluvium. Larger grains (2 mm) of rounded quartz and smaller grains (0.5 mm) of angular to shardy quartz with minor microcline and granules of Fe-oxides are loosely packed into a brown-stained phyllosilicate (kaolinitic) matrix which contains numerous voids lined and some filled with a finely banded, brown aluminosilicate cement. Among the larger rounded grains are a few rounded clasts of ferricrete containing angular quartz. There is evidence of erosion and redeposition of this material as some clasts have the same quartz clasts and stained phyllosilicate matrix as the main part and are coated with banded aluminosilicate that also forms veins in the matrix.				
406685	R406685	8.08-8.15	Claystone-Quartz Arenite. A highly complex sediment consisting mainly of large clasts (5-20 mm) largely of a dark claystone which itself contains smaller clasts of claystone and subangular to sub-round quartz grains. Other less abundant clasts are of Fe-oxide granules and ferricrete. These are set in a matrix of fine angular quartz and deep brown-stained kaolinite. Parts of the matrix have been broken and re-cemented and coated by brown, banded aluminosilicate that also lines voids. Some of the aluminosilicate has also been broken and re-cemented.				
406686	R406686	8.28-8.34	Claystone-Quartz Arenite . A polymictic sediment of poorly sorted, rounded fragments of claystone, quartz and Fe-oxide nodules tightly packed into a clay matrix that has been brecciated and partly dissolved and the voids filled with several generations of banded aluminosilicate. The claystone fragments contain quartz clasts but are not as complex as those from higher in the profile.				

TABLE A5.3: Petrography of Hopeful Hill regolith drillhole THHRDD-1 core samples. **Hopeful Hill, cored hole #: THHRDD-1: Coords:** Zone 53J, 0492082mE, 6575794mN. Attitude: vertical,

406687	R406687	8.65-8.73	Claystone-Quartz Arenite. A highly complex sediment consisting mainly of large clasts (5-20 mm) largely of a dark claystone, some of which itself contain smaller clasts of claystone and subangular to sub-round quartz grains. Other, less abundant, clasts are Fe-oxide granules. These are set in a matrix of fine- grained angular quartz and dark-brown stained kaolinite. Parts of the matrix have been broken and re-cemented and coated by brown, banded aluminosilicate that also lines voids. Some of the aluminosilicate has also been broken and re-cemented. Some of the larger claystone clasts show evidence of infilled burrows, which might explain the bimodal nature of the materials in this claystone by bioturbation and mixing of originally separate, attrified and sorted materials
406688	R406688	9.78-9.85	Porous Saprolite. The saprolite consists of a fine-grained flaky mat of smectite and kaolinite with some remnant talc and chlorite, all dusted with Fe-oxides. This has been veined by early gypsum or brucite and later brecciated by near-surface weathering. Voids are now filled with sediment from above, containing a polymict assemblage of saprolite, Fe-oxide granules and small quartz grains in a clay matrix. A few voids and cracks in this porous material are filled with banded, light brown aluminosilicate cement.
406689	R406689	13.35-13.45	Saprock of Ultramafic . Patches of largely opaque material, heavily dusted with Fe-oxides, pseudomorph olivine grains cut by serpentine/antigorite veinlets in what was probably an adcumulate. This is surrounded by chlorite and talc. The whole is cut by meandering veinlets of cryptocrystalline silica and fibrous brucite. Weathering along specific bands has altered the fabric to stained clay (smectite and kaolinite) obliterating the original fabric.
406690	R406690	16.13-16.22	Saprock of Ultramafic . Large islands, consisting of a mat of chlorite and talc, contain acicular pseudomorphs after either metamorphic tremolite of after pyroxene spinifex structures. These are surrounded by broad, meandering veins of coarse, flaky kaolinite in which lie small, unconsumed remnants of the talc-chlorite mat. Fragments of pale, delicately banded aluminosilicate cement has filled voids and been later brecciated.
406691	R406691	38.60-38.70	Highly deformed fresh Ultramafic bedrock. A highly schistose fine-grained mat of acicular tremolite and flakes of chlorite in which chlorite and a dusting of iron ore picks out at least two acutely intersecting, closely spaced cleavages. Coarser granules of iron ore are scattered throughout. Coarser tremolite and chlorite occur in a few small lenses and boudins. There has been only slight staining along some cleavage planes.

Comments

- The ultramafic bedrocks show significant but variable deformation and metamorphism that have largely obscured their character, although some hints of cumulate fabrics remain. The top of the saprolite contains cavities filled with sedimentary materials.
- The majority of the overlying sediments consist of fragments of claystone that imply a pre-existing claystone, consisting of clays and quartz, that have been mixed by bioturbation, before being broken up and redeposited on the ultramafic saprolites.
- Only the top of the sediments are different and probably had a granitic provenance.
- The aluminosilicate cementing material had a complex history, showing evidence of several cycles of cementation, break-up and re-cementation.

Tables cont.

TABLE A5.4: Petrography of Mullina Well regolith drillhole TMWRDD-1 core samples.

Mullina Well, cored hole #: TMWRDD-1: Coords: Zone 53J, 0461096mE, 6592412mN. Attitude: vertical, Total Depth: 40.00 m. Regolith materials, epoxy-resin impregnated, and 50x75 mm thin-sections. Petrologist: I.D.M. Robertson, CSIRO Exploration & Mining / CRC LEME, Perth. W. Aust.

Petrologi	Petrologist: I.D.M. Robertson, CSIRO Exploration & Mining / CRC LEME, Perth, W. Aust.						
PIRSA R No.	Thin-Sect ⁿ No.	Depth (m)	Petrography Description				
406692	R406692	8.05-8.10	 Calcrete Cemented Claystone. This section consists of two samples each of two different materials. i) The first material is a complex sediment of clasts of clay-rich material and both angular and round quartz set in a clay and fine quartz matrix. The clays of both the matrix and the clasts are stained brown by goethite. Numerous cracks and voids within the matrix have been lined with a delicately banded aluminosilicate cement that also forms papules. This fragment has a partial cutan of brown aluminosilicate. The other fragment is similar but has been more intensely stained a deep red-brown. ii) The second material consists of clasts of a broad range of sizes of the first material, ferruginised to varying degrees, set in a very fine-grained carbonate matrix (calcrete) with clasts of angular to sub-round quartz and minor rounded very fine-grained granular carbonate 				
406693	R406693	9.15-9.25	Gravelly Sediment . Polymictic gravel containing rounded clasts of ferricrete, claystone and saprolite set in a matrix of clay scattered with quartz and ferruginous nodules.				
406694	R406694	10.90-10.95	Mottled Gritty Sediment . Large rounded to sub-round and small angular to shardy quartz grains are densely packed into a matrix of ferruginous clay which has been partly replaced by a deep brown aluminosilicate cement.				
406695	R406695	12.45-12.50	Gritty Sediment of Claystone Fragments . Mottling of the matrix of this matrix-supported grit has accentuated its fabric. It consists of clasts of quartz-bearing claystone, talc-chlorite-clay saprolite with a variety of fabrics and weathering states and quartz. These are set in a matrix of Fe-stained clay.				
406696	R406696	12.92-12.97	Mottled Claystone . This is similar to the sediment below but minor microcline occurs among the sand-sized quartz clasts and these are more unevenly distributed throughout. Goethite mottling has stained some clays and minor goethite has been deposited along cracks.				
406697	R406697	15.80-15.90	Mottled Claystone . A mottled claystone with numerous sub- round to subangular quartz clasts (0.1-0.5 mm) and a few ferruginous granules (2 mm). Coarse mottling has stained the clays brown in diffuse zones. There is faint evidence for curved burrows about 5 mm diameter and 15 mm deep.				
406698	R406698	18.80-18.87	Mottled Gritty Sediment of Saprolite Fragments. A complex matrix-supported polymictic gritty sediment. It contains large subangular clasts, mainly of the underlying saprolite (characterized by patches and 'blasts' of fine-grained clay, disaggregated quartz crystals and relics of the metamorphic fabric) and lesser quantities of clasts of claystone with quartz inclusions. This is set in a matrix of rounded similar materials but with claystone and quartz dominating, all in a clay matrix. Part of the specimen, probably representing a large mottle, is intensely ferruginised to goethite, obscuring much of the fabric.				

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406699	R406699	23.70-23.78	Saprolite of presumed Ultramafic . The ultramafic has been altered pervasively, leaving only minute remnants of the talc fabric in a mass of circular patches of very fine-grained, flaky clay and vermiform clay stacks between, dusted with opaque Fe-oxides and rutile. Clays have penetrated between the grains of the veins and patches of metamorphic quartz, producing a loose jig-saw structure or patches of disaggregated grains. Iron staining is confined to cracks and these and voids are filled with brown, banded aluminosilicate.
406700	R406700	30.08-30.18	.Saprolite of Ultramafic. A mat of talc and chlorite with veinlets and patches of granular metamorphic quartz has been intensely altered to very fine-grained clay (smectite and kaolinite) in numerous diffuse patches that contain unconsumed or partly consumed remnants of the metamorphic assemblage. Iron staining, which has largely penetrated from fractures, cleavages and along quartz vein margins has spread into the metamorphic fabric to a limited extent.
406701	R406701	34.45-34.52	Saprock of Ultramafic. A mat of talc and chlorite, dusted with fine-grained Fe-oxides contains some acicular structures pseudomorphed by the talc. Small diffuse patches and veinlets within the metamorphic fabric have altered to very fine-grained flaky clay (smectite and kaolinite) that has lost the acicular structure. The clays are very faintly stained and the metamorphic fabric is unstained.
406702	R406702	39.15-39.21	Relatively Fresh Mafic Bedrock . Fine-grained acicular tremolite and fibrous chlorite forms a mesh with interstitial plagioclase and minor quartz. The whole is dusted with granular Fe-oxides and brown rutile. The proportions of mafic and felsic minerals varies. Some parts are schistose, with a cleavage of aligned mafic minerals and small lenses of granular quartz. Cracks have developed, some along the cleavage, and these are lined with clay and goethite. Goethite has spread from these to a limited extent, to stain the mafic minerals.

Comments

• The mafic-ultramafic bedrocks show significant deformation, which have largely obscured their character, although some hints of cumulate fabrics remain. The top of the saprolite contains cavities filled with sedimentary materials.

• Although the base of the sediments is a breccia of saprolite fragments, succeeding layers are of a claystone, similar to that of the palaeochannel sediments on the Yilgarn Craton, consisting of a bimodal mixture of clays and quartz. These have been broken up and redeposited higher in the succession.

• Logging of even diamond core of regolith, and locating the unconformity between transported and *in situ* materials are very difficult in places. The core can have different appearances when wet and dry and can show different features in these two states. Thus, it is inevitable that the core needs revisiting and initial logs need revision, particularly when additional chemical, mineralogical and petrographic evidence becomes available.
A5.2 Lake Harris Drill Section AEM derived conductivity profile

Compiled by Richard Lane, Geoscience Australia, Dec. 2001.

Conductivity values have been extracted from a gridded volume (50 by 50 by 2 m voxels) along the drill traverse near the western edge of Lake Harris.

The attribute table associated with the drillhole location Arcview theme indicates all holes are vertical.

The conductivity values are given at 50 m intervals along the drill traverse, linearly interpolating between each pair of holes and extrapolating 1 km beyond the end of the drill traverse. The position of the holes can be cross-referenced with the conductivity values through the "distance" value in both the drillhole spreadsheet and conductivity data.

The intention is to compare the conductivity section with the regolith logging carried out by M.J. Sheard.



Comment by M.J. Sheard, 2002. The section on the next page displays a conductive zone that is coincidental with the weathering zone, and in particular with the combined saprock-pedolith zones. However, it does not indicate the transported versus *in situ* materials boundary over the greenstones and barely does so over the felsic hosts at the section's southern end but not at the northern end. The conductive zone is also coincidental with a lens of highly saline groundwater that intrudes from nearby Lake Harris and along the palaeochannel between 4500 and 6500 m. Compare with cross-section Figure 6 in Volume 1 and that of the Regolith Landform Map (Rear pocket of this Volume).



Appendix 6

Lake Harris Regolith Landform Map

A hard copy printout of the Lake Harris Regolith Landform Map in the plastic pocket over leaf.

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Appendix 7

The CD-ROM containing all relevant Data files, the Report Volumes 1 and 2 as pdf files, the Lake Harris Regolith Landform Map pdf and its active ArcReader equivalent (with drivers) is located on the rear cover of this Volume.