



PLTP-01



PLTP-02



PLTP-03



PLTP-04



PLTP-05



PLTP-06



PLTP-07



PLTP-08



PLTP-09



PLTP-10



PLTP-11



PLTP-12



PLTP-13



RTP-10



RTP-11



RTP-12



RTP-13



RTP-14



RTP-15



RTP-16



RTP-17



RTP-19



RTP-20



RTP-21



RTP-22



RTP-24



RTP-25



RTP-26



RTP-27



RTP-28



RTP-29



RTP-30



RTP-31



RTP-32



RTP-33



RTP-34



RTP-35



RTP-36



RTP-37



RTP-38



RTP-39



RTP-40



RTP-41



RTP-42



RTP-44



RTP-45



RTP-46



RTP-47



RTP-48



RTP-49



RTP-50



RTP-51



RTP-52



RTP-53



RTP-54



RTP-55



RTP-56



RTP-57



RTP-58

DATE STARTED 27/10/16

COMPLETED

R.L. SURFACE 328.6

DATUM m AHD

LOCATION 426447.2, 7352171

INCLINATION 90°




BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Water level in hole 7.53 m 30 Oct. & 1 November 2016

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength							Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm	Defect Description
									EL	V	L	M	H	VH	EH			
inferred▼		66		328			CLAY Very stiff, red brown, fissured, with sand	EW										
							GRANITE Extremely weathered, friable and weakly cemented, red brown and pale brown, massive											
		92	26	327	1		MEGA CRYSTALLINE GRANITE Highly weathered, pale grey, pink and brown, massive coarse mineral texture, very low to low strength	HW										
							becoming moderately weathered, low to medium strength	HW/MW										
		100	60	326			becoming medium to very high strength											
				325														
		100	72	324			4.33 m - 4.7 m fractured zone											
				323														
					322													

DATE STARTED 27/10/16 COMPLETED R.L. SURFACE 328.6 DATUM m AHD
LOCATION 426447.2, 7352171 INCLINATION 90° BEARING ---
EQUIPMENT HQ Diamond Rig LOGGED BY CJ CHECKED BY JL
REMARKS Diamond Drill Rig (HQ). Water level in hole 7.53 m 30 Oct. & 1 November 2016

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description		Weathering	Estimated Strength						IS ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm	Defect Description
							Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Rock: type, weathering, colour, fabric, estimated strength, structure and bedding		EL	VL	L	M	H	VH			
							MEGA CRYSTALLINE GRANITE Moderately weathered, pale pink and grey, massive coarse mineral texture, medium to very high strength <i>(continued)</i>	SW										
		100	41		318	+												
					11	+												
					317	+												
					12	+												
					316	+												
					13	+												
					315	+												
		100	81		14	+												
					314	+												
					15	+												
					313	+												
					16	+												
		100	57		312	+												
					17	+												
					311	+												
					18	+												
					310	+												
		100	55		19	+												
					309	+												
					20	+												

11.87 m joint 75° dip, planar, rough with surface staining

joint surfaces predominantly irregular, rough with oxide staining

17.93 m - 18.91 m fractured zone 30 mm - 80 mm joint spacings



FIGURE
BOREHOLE NUMBER CTBH-01
SHEET 3 OF 5

JOB LOCATION Gifford Creek Station WA

DATE STARTED	27/10/16	COMPLETED		R.L. SURFACE	328.6	DATUM	m AHD
LOCATION	426447.2 ,7352171			INCLINATION	90°	BEARING	---
EQUIPMENT	HQ Diamond Rig			LOGGED BY	CJ	CHECKED BY	JL
REMARKS	Diamond Drill Rig (HQ). Water level in hole 7.53 m 30 Oct. & 1 November 2016						

[illegible]

DATE STARTED 27/10/16

COMPLETED

R.L. SURFACE 328.6

DATUM m AHD

LOCATION 426447.2, 7352171

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Water level in hole 7.53 m 30 Oct. & 1 November 2016

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description	Weathering	Estimated Strength						Is ₍₅₀₎ MPa	Defect Spacing mm				Defect Description	
							Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	EL	VL	L	M	H	VH	EH	D- diam- A- axial	20	60		200
							MEGA CRYSTALLINE GRANITE Fresh, grey white and pale pink, very high to extremely high strength (<i>continued</i>)	FR													
					298	+															
		100	89		31	+															
					297	+															
					32	+															
						+															
					296	+															32.22 m joint 70° dip, undulate, rough, clean
					33	+															
						+															
					295	+															
		100	96		34	+															
					294	+	34.4 m - 34.65 m veins, 65° - 80° dip														
					35	+															
						+															
					293	+															35.5 m - 36.5 m no fractures in core run (drilling only)
		100	100		36	+															
					292	+															
					37	+															
						+															
					291	+															
		100	97		38	+															
					290	+															38.25 m joint, irregular, rough, tight and clean
					39	+															
						+															
					289	+															
		100	100		40	+															39.5 m - 40.5 m no fractures in core run (drilling only)

CLIENT Hastings Technology Metals
JOB NUMBER 112391.11

JOB NAME Yangibana Rare Earth Project
JOB LOCATION Gifford Creek Station WA

DATE STARTED 27/10/16 **COMPLETED** **R.L. SURFACE** 328.6 **DATUM** m AHD
LOCATION 426447.2 ,7352171 **INCLINATION** 90° **BEARING** ---
EQUIPMENT HQ Diamond Rig **LOGGED BY** CJ **CHECKED BY** JL
REMARKS Diamond Drill Rig (HQ). Water level in hole 7.53 m 30 Oct. & 1 November 2016

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						IS ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm					Defect Description
									EL	VL	L	M	H	VH		EH	20	60	200	600	
		100	100			+ + + +	MEGA CRYSTALLINE GRANITE Fresh, grey white and pale pink, very high to extremely high strength (<i>continued</i>)	FR													
				288			CTBH-01 terminated at 40.5m														
					41																
				287																	
					42																
				286																	
					43																
				285																	
					44																
				284																	
					45																
				283																	
					46																
				282																	
					47																
				281																	
					48																
				280																	
					49																
				279																	
					50																

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 7/11/16

COMPLETED

R.L. SURFACE 329.1

DATUM m AHD

LOCATION 426838.8, 7352234

INCLINATION 90°

BEARING ---

EQUIPMENT RC Rig - Air Flush

LOGGED BY KF

CHECKED BY JL

REMARKS RC Rig (air flush). Groundwater strike at 54 m depth whilst drilling.

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm					Defect Description	Well Details																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
							Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	EL	VL	L	M	H		VH	EH	20	60	200			600	2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				328	2	+	GRANITE Extremely / moderately weathered, dark grey and brown																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

DATE STARTED 29/10/16

COMPLETED

R.L. SURFACE 334.4

DATUM m AHD

LOCATION 427499.2, 7352255

INCLINATION 90°





















BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength					Is ₍₅₀₎ MPa D- diam- A- axial	Defect Spacing mm	Defect Description	
									EL	VL	L	M	H				VH
		75	0	334			CLAY Very stiff, medium to high plasticity, red brown, with sand	EW									
					1		CLAYEY SAND Dense and weakly cemented, pale red brown, fine to coarse sand trace gravel										
		86	0	333			CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense / dense, green grey and pale grey and black, with gravel	HW									joint surfaces predominantly irregular, planar and rough with staining and no infill.
					2		MEGA CRYSTALLINE GRANITE Highly weathered, dark green grey and black, massive, very low to medium strength.										
		100	56	332			GRANITE Moderately weathered, dark green grey and pale grey, equigranular, massive, low to medium strength	MW									
					3		3.5 m becoming dark grey										
		100	58	330													
					4												
					5												
		100	82	329			5.5 m with irregular foliations										
					6												
					7		7.0 m - 8.1 m highly weathered, grey and green grey, very low / medium strength		HW								
		94	16	327			7.38 m - 8.1 m highly weathered, micaceous rubble core										7.38 m - 8.1 m highly fractured shear zone
					8												
							GRANITE Moderately weathered to slightly weathered, dark green grey, white and black, equigranular, massive, low to medium strength	MW									
		100	92	326													
					9												9.36 m joint 40° dip, planar, clay infill
							9.5 m slightly weathered		SW								
		100	92	325													
					10												

joint surfaces predominantly irregular, planar and rough with staining and no infill.

7.38 m - 8.1 m highly fractured shear zone

9.36 m joint 40° dip, planar, clay infill

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 29/10/16

COMPLETED

R.L. SURFACE 334.4

DATUM m AHD

LOCATION 427499.2, 7352255

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength					Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm 20 60 200 600 2000	Defect Description		
									EL	VL	L	M	H				VH	EH
					324	+	GRANITE Moderately weathered to slightly weathered, dark green grey, white and black, equigranular, massive, low to medium strength (<i>continued</i>)	SW										
		100	92		11	+												
					323	+												
					12	+												
					322	+												
					13	+												
					321	+			13.1 m dark green grey and white, medium to very high strength									
		100	65		14	+												
					320	+												
					15	+			14.6 m moderately weathered, dark green grey and pale grey,	MW/HW								14.65 m joint 75° dip, planar, rough tight
					319	+												
					16	+	15.67 m - 15.80 m moderately to highly weathered zone	SW/MW										
					318	+	becoming slightly to moderately weathered											
					17	+												
					317	+												
					18	+												
					316	+												
					19	+												
		100	57		315	+												
					20	+												

JOB NUMBER 112391.11

JOB NAME Yangibana Rare Earth Project

JOB LOCATION Gifford Creek Station WA

DATE STARTED 29/10/16

COMPLETED

R.L. SURFACE 334.4

DATUM m AHD

LOCATION 427499.2, 7352255

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

[illegible]



FIGURE
BOREHOLE NUMBER CTBH-03
SHEET 4 OF 6

JOB LOCATION Gifford Creek Station WA

DATE STARTED	29/10/16	COMPLETED		R.L. SURFACE	334.4	DATUM	m AHD
LOCATION	427499.2, 7352255			INCLINATION	90°	BEARING	---
EQUIPMENT	HQ Diamond Rig			LOGGED BY	CJ	CHECKED BY	JL
REMARKS	Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)						

[illegible]

CLIENT Hastings Technology Metals
JOB NUMBER 112391.11

JOB NAME Yangibana Rare Earth Project
JOB LOCATION Gifford Creek Station WA

DATE STARTED 29/10/16 **COMPLETED** **R.L. SURFACE** 334.4 **DATUM** m AHD
LOCATION 427499.2, 7352255 **INCLINATION** 90° **BEARING** ---
EQUIPMENT HQ Diamond Rig **LOGGED BY** CJ **CHECKED BY** JL
REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength					Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm 20 60 200 600 2000	Defect Description
									EL	VL	L	M	H	EH		
				294		+	MEGA CRYSTALLINE GRANITE Slightly weathered / fresh, pale grey and dark grey and pink crystalline texture, massive, very high to extremely high strength. <i>(continued)</i>	FR								40.61 m joint subhorizontal, planar, rough, tight, slight staining 40.7 - 41.33 m set of poorly developed foliations evident (25° dip).
		100	99		41	+										
				293		+										
					42	+										
				292		+										
					43	+										
				291		+										
		100	100		44	+										
				290		+										
					45	+										
				289		+	43.0 m pale grey, large quartz crystals									only drill fractures evident below 42.3 m.
					46	+										
		100	100		47	+										
				288		+										
					48	+										
				287		+										
					49	+										
				286		+										
					50	+										
		100	100			+	45.4 m - 46.4 m dark grey, poorly developed foliations evident									
						+										
						+										
						+										
						+										
						+										
						+										
						+										
						+										
						+										
		100	100			+										

DATE STARTED 29/10/16

COMPLETED

R.L. SURFACE 334.4

DATUM m AHD

LOCATION 427499.2, 7352255

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm				Defect Description	
									EL	VL	L	M	H	VH		EH	20	60	200		600
		100	100	284	+	MEGA CRYSTALLINE GRANITE Slightly weathered / fresh, pale grey and dark grey and pink crystalline texture, massive, very high to extremely high strength. <i>(continued)</i>	FR														
					+																
					+																
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FIGURE
BOREHOLE NUMBER CTBH-04
SHEET 1 OF 2

JOB LOCATION Gifford Creek Station WA

DATUM m AHD

BEARING ---

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)


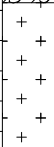
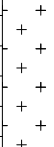
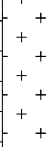
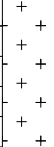
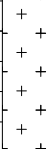
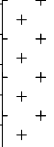

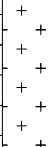
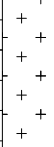


[illegible]

CLIENT Hastings Technology Metals **JOB NAME** Yangibana Rare Earth Project
JOB NUMBER 112391.11 **JOB LOCATION** Gifford Creek Station WA

DATE STARTED 1/11/16 **COMPLETED** **R.L. SURFACE** 333.6 **DATUM** m AHD
LOCATION 426936.9, 7351880 **INCLINATION** 90° **BEARING** ---
EQUIPMENT HQ Diamond Rig **LOGGED BY** CJ **CHECKED BY** JL
REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm					Defect Description
									EL	VL	L	M	H	VH		EH	20	60	200	600	
		97	81	323	11	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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DATE STARTED 26/10/16 COMPLETED R.L. SURFACE 330.5 DATUM m AHD
LOCATION 427008.2, 7352741 INCLINATION 90° BEARING ---
EQUIPMENT HQ Diamond Rig LOGGED BY CJ CHECKED BY JL
REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength					IS ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm				Defect Description			
									EL	VL	L	M	H		VH	EH	20	60		200	600	2000
		37		330			CLAYEY GRAVEL Dense/very dense, fine to coarse, brown and grey, medium plasticity.															
		100	83	329	1		GRANITE Moderately weathered, grey and light grey, equigranular medium gravel, massive, medium/ high strength 1.2 m - 2.2 m dark grey and white, high / very high strength	MW														joints irregular, rough, clean or with slight iron oxide staining
					2		2.2 m - 5.95 m moderately weathered, green grey, massive, medium / high strength									D 1.88						
		100	77	328																		5.3 m - 5.38 m highly fractured zone
					3																	
		100	65	326																		
					4																	
		100	47	325																		
					5		5.95 m - 6.5 m highly weathered zone, closely fractured, low / medium strength	HW														
		100	77	324			6.5 m moderately weathered, grey, white and crystalline, high/ very high strength	MW														6.54 m - 6.67 m closely fractured zone
					6																	
		93	81	323			GRANITE Slightly weathered, grey and light grey, equigranular medium gravel, massive, medium/ very high strength	SW														
					7																	
		100	96	322																		
					8																	
		100		321																		
					9																	
					10																	

CLIENT Hastings Technology Metals **JOB NAME** Yangibana Rare Earth Project
JOB NUMBER 112391.11 **JOB LOCATION** Gifford Creek Station WA

DATE STARTED 26/10/16 **COMPLETED** **R.L. SURFACE** 330.5 **DATUM** m AHD
LOCATION 427008.2, 7352741 **INCLINATION** 90° **BEARING** ---
EQUIPMENT HQ Diamond Rig **LOGGED BY** CJ **CHECKED BY** JL
REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm 20 60 200 600 2000	Defect Description
									EL	VL	L	M	H	VH			
		100	96			+ +											

DATE STARTED 23/10/16

COMPLETED

R.L. SURFACE 330.2

DATUM m AHD

LOCATION 427418.3, 7353922

INCLINATION 90°

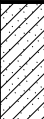
BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength							Is ₍₅₀₎ MPa D- diam- A- axial	Defect Spacing mm					Defect Description																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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		100		330			CLAYEY SAND Very dense / dense, fine to coarse, red brown and grey, medium plasticity.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Core alternating between extremely weathered granite and highly weathered granite.

Joints in highly weathered granite typically subhorizontal to 15° dip rough and planar. Defect spacing approx. 60 mm - 200 mm in highly weathered material.

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 23/10/16

COMPLETED

R.L. SURFACE 330.2

DATUM m AHD

LOCATION 427418.3, 7353922

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description		Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- A- axial	Defect Spacing mm	Defect Description
							Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Rock: type, weathering, colour, fabric, estimated strength, structure and bedding		EL	VL	L	M	H	VH			
		67		320			CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, pale grey and white, low / medium plasticity, with lithorelicts of low strength granite. <i>(continued)</i>	EW										
					11													
		56		319														
					12													
				318														
		100		317	13													
		100			14													
				316		14.1 m becoming grey and white with core stones of low strength highly weathered granite												
		100		315	15													
		84		314	16	GRANITE Highly weathered, grey green and white, coarse texture massive, very low to medium strength.	HW											
						CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, grey and white, low / medium plasticity, with lithorelicts of very low strength granite.	EW											
					17	GRANITE Highly weathered, grey green and white, coarse texture, massive, very low to medium strength.	HW											
		67		313														
					18													
				312														
					19													
		57		311														
		67			20													

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 23/10/16

COMPLETED

R.L. SURFACE 330.2

DATUM m AHD

LOCATION 427418.3, 7353922

INCLINATION 90°

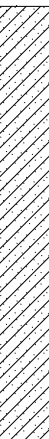
BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						IS ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm					Defect Description			
									EL	VL	L	M	H	VH		EH	20	60	200	600		2000		
		67		310			CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, grey and white, low / medium plasticity, with lithorelicts of very low strength granite. 20.7 m with very low to low strength granite core stones	EW																
			100	309	21																			
			83		22																			
		87		308																				
				307	23		GRANITE Extremely to highly weathered, pale grey and white, coarse texture, massive, very low / low strength, with pockets of very dense clayey sand.	HW																
		100	82		24																			
				306																				
					25		PLBH-01 (CBT1) terminated at 24.5m																	
				305																				
					26																			
				304																				
					27																			
				303																				
					28																			
				302																				
					29																			
				301																				
					30																			

DATE STARTED 24/10/16

COMPLETED

R.L. SURFACE 336.3

DATUM m AHD

LOCATION 427772.4, 7353841

INCLINATION 90°



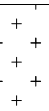
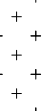
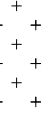
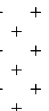
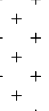
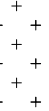
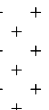
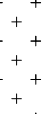
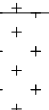
BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm 20 40 60 200 600 2000	Defect Description	
									EL	VL	L	M	H	VH				EH
					336		CLAYEY SAND Dense, fine to coarse, red brown, medium plasticity.	HW									D 0.16	Joints mostly irregular and planar, with rough and oxide stained surfaces
		100					CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, pale grey and white, medium plasticity, with lithorelicts of weathered granite.											
					1			MW									1.4 m joint irregular, rough, with 30 mm of gravelly clay infill	
		84	66		335		MEGA-CRYSTALLINE GRANITE Highly weathered, pale grey and green grey, coarse texture massive, very low/low strength.											
					2		MEGA-CRYSTALLINE GRANITE Moderately weathered, green grey, white and black, coarse texture massive, medium to very high strength.	SW									below 4.8 m, joints 5°- 25° dip, irregular, rough and clean	
					334		MEGA-CRYSTALLINE GRANITE Slightly weathered, pale green grey and white, coarse texture, massive, medium to very high strength.											
		100	90		3												Solid core 5.0 m - 6.5 m	
					333													
					4												9.5 m joints mostly subhorizontal, irregular with rough surfaces	
		100	97		332													
					5													
					331													
		100	100		6													
					330													
					7													
		100	80		329													
					8			FR									D 8.53	
					328		MEGA-CRYSTALLINE GRANITE Freshly weathered, pale green grey and white, coarse texture, massive, high to extremely high strength.											
		100	75		9												D 0.4	
					327													
		100	98		10		9.4 m - 9.45 m locally moderately weathered											

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 24/10/16

COMPLETED

R.L. SURFACE 336.3

DATUM m AHD

LOCATION 427772.4, 7353841

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	ROD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm					Defect Description
									EL	VL	L	M	H	VH		EH	20	60	200	600	
		100	98	326	11	+ + + + +	MEGA-CRYSTALLINE GRANITE Freshly weathered, pale green grey and white, coarse texture, massive, high to extremely high strength. <i>(continued)</i>	FR													
				325	12		PLBH-02 (CBT3) terminated at 11m														
				324	13																
				323	14																
				322	15																
				321	16																
				320	17																
				319	18																
				318	19																
				317	20																

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 25/10/16

COMPLETED

R.L. SURFACE 333.5

DATUM m AHD

LOCATION 427601.8, 7353923

INCLINATION 90°































BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm	Defect Description
									EL	VL	L	M	H	VH			
		95	0	333			CLAYEY SAND Very dense / dense, fine to coarse, red brown and grey, medium plasticity.	HW									
					1		MEGA-CRYSTALLINE GRANITE Highly weathered, red brown and grey, coarse texture massive, very low to low strength.										
		92	0	332													
					2		MEGA-CRYSTALLINE GRANITE Moderately weathered, red brown and white and pale grey, coarse texture massive, low & medium strength.	MW									
																	
		91	0		3												
																	
																	
																	
																	
							GRANITE Highly weathered, red brown and pale grey, coarse texture massive, low strength.	HW									
					4												
																	
		93	0	329													
					5		4.9 - 5.5 m, pale brown, very low strength										
																	
																	
																	
		100	0		6		5.5m - 6.6 m, pale pink and grey with pockets of clayey gravel, very low strength										
																	
																	
																	
																	
		58	0		7		6.6 m - 7.8 m pale yellow brown and green grey, very low strength										
																	
																	
																	
																	
																	
		45			8		CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, pale grey and white, low plasticity, with lithorelicts of weathered granite.										

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 25/10/16

COMPLETED

R.L. SURFACE 333.5

DATUM m AHD

LOCATION 427601.8, 7353923

INCLINATION 90°

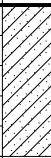
BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- A- axial	Defect Spacing mm					Defect Description
									EL	VL	L	M	H	VH		EH	20	60	200	600	
		100		323	11		CLAYEY SAND (EXTREMELY WEATHERED GRANITE) Very dense, fine to coarse, pale grey and white, low plasticity, with lithorelicts of weathered granite. (continued)														
				322	12		PLBH-03 (CBT4) terminated at 11m														
				321	13																
				320	14																
				319	15																
				318	16																
				317	17																
				316	18																
				315	19																
				314	20																

JOB NUMBER 112391.11

FIGURE
BOREHOLE NUMBER PLBH-04 (CBT5)

SHEET 1 OF 1

JOB NAME Yangibana Rare Earth Project

JOB LOCATION Gifford Creek Station WA

DATE STARTED 25/10/16

COMPLETED

R.L. SURFACE 332.3

DATUM m AHD

LOCATION 427532.6, 7353766

INCLINATION 90°

BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength						Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm 20 60 200 500 2000	Defect Description
									EL	VL	M	H	VH	EH			
		81	29	332	+	<div><div>MEGA-CRYSTALLINE GRANITE Highly weathered, pale grey and red brown, coarse texture, massive, medium to high strength.</div><div>MEGA-CRYSTALLINE GRANITE Moderately weathered, pale grey, white and black, coarse texture, massive, medium to very high strength.</div><div>MEGA-CRYSTALLINE GRANITE Slightly weathered, pale grey, white and black, coarse texture, massive, high to extremely high strength.</div><div>MEGA-CRYSTALLINE GRANITE Freshly weathered, pale grey, white and black, coarse texture, massive, very high to extremely high strength.</div></div>	HW										<div>Joints predominantly rough, iron oxide stained and clean</div> <div>joints irregular, rough and clean</div> <div>fractured zone 3.1 m - 3.5 m, closely spaced irregular fractures, clean</div> <div>UCS = 76.8 MPa</div> <div>5.11 m joint 70° dip, planar, rough, clean minor staining</div> <div>5.61 m joint 75° dip, planar, smooth and clean</div>
		91	62	331	+		MW										
					1		+	SW									
		100	68	330	+		+	FR									
					2		+										
					3		+										
				329	+		+										
		100	87	328	+		+										
					4		+										
					5		+										
		100	39	327	+	+											
					6	+											
				326	+	+											
						+	PLBH-04 (CBT5) terminated at 6.5m										
					7												
				325													
					8												
				324													
					9												
				323													
					10												

CLIENT Hastings Technology Metals

JOB NAME Yangibana Rare Earth Project

JOB NUMBER 112391.11

JOB LOCATION Gifford Creek Station WA

DATE STARTED 26/10/16

COMPLETED

R.L. SURFACE 333.2

DATUM m AHD

LOCATION 427602.7, 7354051

INCLINATION 90°


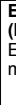








BEARING ---

EQUIPMENT HQ Diamond Rig

LOGGED BY CJ

CHECKED BY JL

REMARKS Diamond Drill Rig (HQ). Groundwater depth not observed (drilling fluid)

Method	Water	TCR %	RQD %	RL (m)	Depth (m)	Graphic Log	Material Description Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Rock: type, weathering, colour, fabric, estimated strength, structure and bedding	Weathering	Estimated Strength							Is ₍₅₀₎ MPa D- diam- etral A- axial	Defect Spacing mm	Defect Description
									EL	VL	L	M	H	VH	EH			
				333			CLAY Very stiff, red brown and grey, with fine sand W>Wp.											
		100		332	1		1.2 m with grey weakly cemented claystone material											
		100		331	2		EXTREMELY WEATHERED GRANITE (LATERITIZED) Extremely weathered, red brown, massive, very low to medium strength	EW										
		100		330	3		MEGA-CRYSTALLINE GRANITE Extremely to highly weathered, purple red brown with white speckling, very low strength with pockets of stiff clay material	EW/HW										
		100	83	329	4		MEGA-CRYSTALLINE GRANITE Moderately weathered, white, black and red brown, massive, medium to high strength.	MW										
				328	5		4.6 m with poorly developed veining 4.65 m becoming purple and white speckled 4.9 m predominantly white/cream with black crystals											
		100	85	327	6													
		95	78	326	7		7.1 m becoming white and brown, increasingly weathered, low to medium strength	MW/HW										
				325	8		GRANITE Highly weathered to moderately weathered, greenish brown and grey, massive, fine and medium texture, medium to very high strength.											
		100	84	324	9		dark green grey											
					10													

PLBH-05 (CBT2) terminated at 10m



CTBH1 (0.00 - 10.10 m)



CTBH1 (10.10 - 20.30 m)



CTBH1 (20.30 - 29.80 m)



CTBH1 (29.80 - 39.50 m)



CTBH1 (39.50 - 40.50 m)



CTBH3 (0.00 - 09.50 m)



CTBH3 (09.50 - 20.30 m)



CTBH3 (20.30 - 30.50 m)