

# Appendix 15.

SLR Consulting Australia (2020f) *Rum Jungle Rehabilitation – Stage 2A- Geotechnical Investigation Waste Storage Facilities and Borrow Areas*. Report to the Department of Mines and Energy, Northern Territory. PART E.



STP-05 Looking South East



STP-05 Looking West



STP-05 Backfilled Looking South West



STP-05 Western Pit Wall



Spoil Pile 0.00m to 0.40m



Spoil Pile 0.40m to 1.00m



Spoil Pile 1.00m to 1.40m



Spoil Pile 1.40m to 2.30m

File Location: \\WU.SLR.Local\Corporate\Projects\SLR\



2 LINCOLN STREET  
LANE COVE  
NEW SOUTH WALES 2066  
AUSTRALIA  
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Title:	SLR-STP-05 Photo Log	Drawn:	BT
Client:	DPIR	Reviewed:	CDM
Project:	Rum Jungle Rehabilitation	Size:	A3
Project No.:	680.10421	Version:	1.0
Status:	Design	Datum:	None
Date:	09/07/2019		





# TEST PIT EXCAVATION LOG

HOLE NO.: STP-06

PROJECT : Rum Jungle Rehabilitation

LOCATION : Granular &amp; Growth Borrow

FILE / JOB NO.: 680.10421

DATE STARTED : 11/07/19

POSITION : E: 718815, N: 8559161 (52 AMG84)

SURFACE ELEVATION : 99.19m (AHD)

LOGGED BY : BT

DATE COMPLETED : 11/07/19

RIG TYPE : 20t Excavator

ANGLE FROM HORIZONTAL : 90°

CHECKED BY : FC

DATE LOGGED : 11/07/19

DRILLER : C. McGregor

STABILITY : Stable

DRILLING					MATERIAL							OBSERVATION	
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION SOIL/ROCK TYPE; colour, grain characteristics, structure, minor components	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations
Excavator  600mm Toothed Bucket		Groundwater Not Encountered	0.00m (ES) 0.01m (ES)	99		SM	SM - silty SAND trace gravel, fine to medium grained, brown and grey; silt, medium plasticity; gravel, fine to medium grained, sub-angular.	D				Topsoil	1.5m: Recovered as cobbles <200-300mm, sub-angular to angular.
			0.70m (B) 0.70m (ES)			SW	SW - gravelly SAND, fine to coarse grained, orange brown; gravel, fine to medium grained, sub-rounded to sub-angular.	L - MD				Residual Soil	
						MIXTURE OF SOIL AND COBBLES/BOULDERS (MATRIX SUPPORTED) SW gravelly SAND, well graded, fine to coarse grained, orange brown; gravel, fine to coarse grained, sub-rounded to sub-angular; cobbles; <100mm, sub-rounded to sub-angular, granite.	VD	Extremely Weathered Bedrock					
						META SANDSTONE, fine to medium grained, yellow brown and red brown, extremely low strength, extremely weathered, moisture within defects.	M						
				2	EOH: 2.00m - Refusal								
				97									
					3								
				96									
					4								
				95									



STP-06 Looking South



STP-06 Looking East



STP-06 Backfilled Looking South West



STP-06 EWestern Pit Wall



Spoil Pile 0.00m to 0.50m



Spoil Pile 0.50m to 1.00m



Spoil Pile 1.00m to 1.50m



Spoil Pile 1.50m to 2.00m

File Location: \\WU.SLR.Local\Corporate\Projects\SLR\



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Title:	SLR-STP-06 Photo Log	Drawn:	BT
Client:	DPIR	Reviewed:	CDM
Project:	Rum Jungle Rehabilitation	Size:	A3
Project No.:	680.10421	Version:	1.0
Status:	Design	Datum:	None
Date:	09/07/2019		





# TEST PIT EXCAVATION LOG

HOLE NO.: STP-07

PROJECT : Rum Jungle

LOCATION : Granular &amp; Growth Borrow

FILE / JOB NO.: 680.10421

DATE STARTED : 11/07/19

POSITION : E: 719190, N: 8559750 (52 AMG84)

SURFACE ELEVATION : 93.82m (AHD)

LOGGED BY : BT

DATE COMPLETED : 11/07/19

RIG TYPE : 20t Excavator

ANGLE FROM HORIZONTAL : 90°

CHECKED BY : FC

DATE LOGGED : 11/07/19

DRILLER : C. McGregor

STABILITY : Stable

DRILLING				MATERIAL						OBSERVATION			
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION SOIL/ROCK TYPE; colour, grain characteristics, structure, minor components	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations
Excavator  600mm Toothed Bucket	<div><div>0.00m</div><div>0.01m</div><div>0.40m</div><div>0.40m</div><div>0.90m</div><div>1.60m</div><div>2.70m</div></div>	Groundwater Not Encountered		93	1		SW	SW - SAND with gravel, fine to coarse grained, well graded, grey; gravel, fine to medium grained, rounded to sub-rounded.	D			Topsoil	
							GW	GW - sandy GRAVEL trace silt, well graded, fine to coarse grained, yellow brown; sand, fine to coarse grained.	MD				
							SC	SC clayey SAND, medium plasticity, well graded, fine to medium grained, red brown, grey and orange brown; with occasional granite cobbles, <100mm, sub-rounded to sub-angular.	D				
									M				
									VD				
				92	2								
				91	3			GRANITE, fine to medium grained, pale grey and red brown, extremely low strength, extremely weathered., EOH: 3.00m - Refusal				Extremely Weathered Bedrock	
				90	4								
				89									



STP-07 Looking North



STP-07 Looking West



STP-07 Backfilled Looking South West



STP-07 Eastern Pit Wall



Spoil Pile 0.00m to 0.75m



Spoil Pile 0.75m to 1.50m



Spoil Pile 1.50m to 2.25m



Spoil Pile 2.25m to 3.00m

File Location: \\WU.SLR.Local\\Corporate\\Projects\\SLR\\



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Title:	SLR-STP-07 Photo Log	Drawn:	BT
Client:	DPIR	Reviewed:	CDM
Project:	Rum Jungle Rehabilitation	Size:	A3
Project No.:	680.10421	Version:	1.0
Status:	Design	Datum:	None
Date:	09/07/2019		



# SLR TEST PIT LOGS

## HAUL ROADS

SLR **OCTOBER 2019** INVESTIGATION

SLR 

HOLE NO.: HR-SLR-TP01

FILE / JOB NO.: 680.10421.02300

LOGGED BY : FC

CHECKED BY : BT

STABILITY : Stable

DRILLING				MATERIAL				OBSERVATION					
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations
<div>Excavator</div> <div>600mm Toothed Bucket</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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Looking South



Looking East



Eastern Pit Wall



Spoil Pile



Spoil Pile

Title:	SLR-HR-SLR-TP01 Photo Log	Drawn:	FC
Client:	DPIR	Reviewed:	BT
Project:	Rum Jungle Rehabilitation	Size:	A3
Project No.:	680.10421	Version:	1.0
Status:	Design	Datum:	AHD
Date:	02/10/2019		



# TEST PIT EXCAVATION LOG

**HOLE NO.: HR-SLR-TP02**
**PROJECT :** Rum Jungle Geotechnical Investigation

**LOCATION :** Former Rum Jungle Mine Site **FILE / JOB NO.:** 680.10421.02300

DATE STARTED : 02/10/19	POSITION : E: 717372, N: 8561971 (52 MGA94)	SURFACE ELEVATION : 71m (AHD)	LOGGED BY : FC
DATE COMPLETED : 02/10/19	RIG TYPE : 20T Tracked Komatsu Excavator	ANGLE FROM HORIZONTAL : 90°	CHECKED BY : BT
DATE LOGGED : 02/10/19	DRILLER : C. McGregor	STABILITY : Stable	

DRILLING				MATERIAL							OBSERVATION				
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations		
<div>Excavator</div> <div>600mm Toothed Bucket</div>	<div>Penetration</div>	<div>Groundwater Not Encountered</div>		70	1	<div></div>	SW	SW gravelly SAND trace organic matter (root fibres less than 2mm diameter), well graded, fine to coarse grained, pale grey and brown mottle; gravel, fine to medium grained, rounded to sub-angular, weathered granite.	D	<div>St - VSt</div>	<div></div>	Topsoil			
				69	2	<div></div>	SW	SW clayey gravelly SAND, medium plasticity, well graded, fine to medium grained, red brown and mottled grey; gravel, fine to medium grained, weathered granite.  1.5m: Frequent sub-rounded cobble of weathered granite.		<div>VD</div>	<div></div>	Residual Soil			
								EOH: 2.10m - Target depth							
				68	3										
				67	4										
				66	5										


**Rum Jungle Geotechnical Investigation**

5 Foelsche Street, Darwin,  
NT 0800



Looking South East



Looking North East



Looking South East



Spoil Pile



Spoil Pile



# TEST PIT EXCAVATION LOG

HOLE NO.: HR-SLR-TP03

PROJECT : Rum Jungle

LOCATION : Former Rum Jungle Mine Site

FILE / JOB NO.: 680.10421

DATE STARTED : 03/10/19

POSITION : E: 717529.01, N: 8562381.6 (52 AMG SURFACE ELEVATION : 80m (AHD)

LOGGED BY : FC

DATE COMPLETED : 03/10/19

RIG TYPE : 20T Tracked Komatsu Excavator ANGLE FROM HORIZONTAL : 90°

CHECKED BY : BT

DATE LOGGED : 03/10/19

DRILLER : C. McGregor

STABILITY : Stable

DRILLING				MATERIAL							OBSERVATION		
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION SOIL/ROCK TYPE; colour, grain characteristics, structure, minor components	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations
Excavator  600mm Toothed Bucket		Groundwater Not Encountered	0.40m (D)	79	1		SM	SM - gravelly SAND with silt, poorly graded, fine to medium grained, orange brown; gravel, fine to medium grained, rounded to sub-rounded, weathered granite and quartz	D	VD		Basecourse	
			0.80m (D)				CL - CI	CL - CI - gravelly CLAY with sand, low to medium plasticity, red brown; gravel, fine to medium grained, rounded to sub-angular, weathered granite, meta-sediment and quartz; sand, fine to medium grained; occasional sub-rounded to sub-angular cobbles of meta-sediment and quartz					
							CH	CH - gravelly CLAY with sand, high plasticity, grey brown with red mottle; gravel, fine to coarse grained, rounded to sub-angular, weathered granite, breccia and quartz; sand, fine to medium grained					
							SP	SP - gravelly SAND with clay, poorly graded, fine to coarse grained, dark grey brown with green and red mottle; gravel, rounded to sub-angular, ironstone, weathered granite, quartz and meta-sediment					
			1.60m (D)				GP	GP - sandy GRAVEL trace clay, poorly graded, fine to coarse grained, rounded to sub-angular, ironstone, weathered granite, quartz and meta-sediment, pale grey and brown with green and red mottle; sand, fine to coarse grained; frequent lenses CLAY					
				78	2		EOH: 2.00m - Target depth						



Looking East



Looking East



Looking South



Spoil Pile



Spoil Pile



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Title:	SLR-HR-SLR-TP03 Photo Log
Client:	DPIR
Project:	Rum Jungle Rehabilitation
Project No.:	680.10421
Status:	Design
Date:	03/10/2019

Drawn:	FC		
Reviewed:	BT		
Size:	A3	Version:	1.0
Datum:	AHD		





# TEST PIT EXCAVATION LOG

HOLE NO.: HR-SLR-TP04

PROJECT : Rum Jungle

LOCATION : Former Rum Jungle Mine Site

FILE / JOB NO.: 680.10421

DATE STARTED : 03/10/19

POSITION : E: 717535.09, N: 8562615.37 (52 AM) SURFACE ELEVATION : 80m (AHD)

LOGGED BY : FC

DATE COMPLETED : 03/10/19

RIG TYPE : 20T Tracked Komatsu Excavator ANGLE FROM HORIZONTAL : 90°

CHECKED BY : BT

DATE LOGGED : 03/10/19

DRILLER : C. McGregor

STABILITY : Stable

DRILLING				MATERIAL								OBSERVATION	
METHOD & BUCKET TYPE	PENETRATION	WATER	SAMPLES TESTS REMARKS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION SOIL/ROCK TYPE; colour, grain characteristics, structure, minor components	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	DCP RESULTS	ORIGIN	STRUCTURE & Other Observations
Excavator	600mm Toothed Bucket	Groundwater Not Encountered	0.60m (B)	79	1		ML	ML - sandy SILT trace gravel, low plasticity, grey brown; sand, fine to coarse grained; gravel, fine to medium grained, rounded to sub-angular, siltstone, ironstone and quartz; frequent rootlets (<2mm diameter)	D	St		Topsoil	
					GW		MIXTURE OF SOIL AND COBBLES/BOULDERS (MATRIX SUPPORTED) GW sandy GRAVEL, well graded, fine to coarse grained, rounded to sub-angular, weathered granite, breccia and meta-sediments, orange brown with red mottle; sand, fine to coarse grained.  1.0m: Frequent cobbles.	VD					
				78	2			EOH: 2.00m - Target depth					
				77	3								
				76	4								
				75	5								