# Greenvale Silicon Pty Ltd

DIATOMACEOUS EARTH INVESTMENTS PTY. LTD.

GREENVALE SILICON PTY. LTD.

(Greenvale Silicon Joint Venture - GVSJV)

## **EXPLORATION PERMITS FOR MINERALS (EPM) 19573**

Partial Relinquishment Report For 16 Sub Blocks Relinquished 31 July 2019



#### Prepared By:

Agripower Australia Limited – 3 September 2019

#### Distribution:

1 x Agripower Australia Ltd, Sydney 1 x Greenvale Silicon Pty Ltd, Charters Towers

Cover Photo: Upper Basin DE – Site 120181 in EPM19573

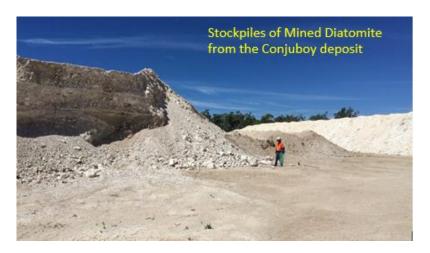
## **SUMMARY**

Diatomaceous Earth Investments Pty Ltd. ("DEI") and Greenvale Silicon Pty. Ltd. ("GVS"), under Joint Venture Agreement, namely, "Greenvale Silicon Joint Venture (GVSJV)" hold two Mineral Development Licences (MDL's 325 and 326), four Exploration Permits for Minerals (EPM's 13236, EPM13995, EPM19573 and EPM25110); and one Mining Lease (ML 10279) over the Conjuboy Diatomaceous Earth Deposit.

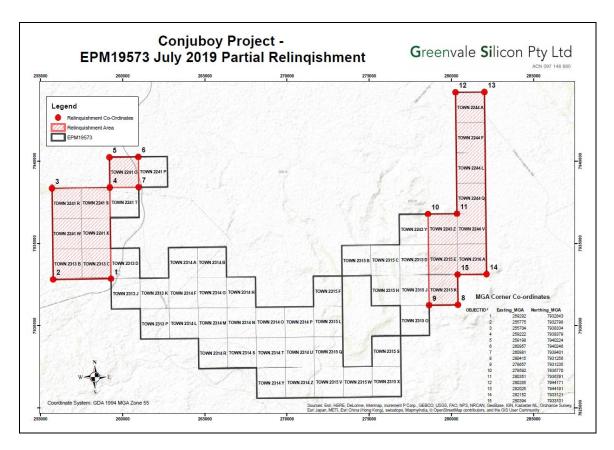


These tenements cover the Conjuboy Diatomaceous Earth Deposit, 48km north of the town of Greenvale, North Queensland. The project comprises a diatomite-bearing sequence.

Diatomaceous Earth, more commonly known as "Diatomite" in as an industrial mineral and are found more commonly in sedimentary successions formed from collections of the fossilized skeletal remains of single-celled aquatic algae.



This report is presented as the partial relinquishment report of 16 sub-blocks relinquished from EPM19573 that was submitted to the Department of Natural Resources and Mines on 31 July 2019 and approved as same by an authorised delegate for the Minister on 31 July 2019.



The relinquished areas of EPM19573 lie considered to be outside of the geological, geophysical and geochemical region of interest in terms of the GVSJV exploration model.

The area has also been fully assessed by the GVSJV geology team by ongoing field mapping and it is understood that the area does not contain diatomite bearing sequences of economic interest to the group.

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## 1. INTRODUCTION

The information contained within this report relates to exploration activities conducted over and on the 16 sub-blocks that were partially relinquished from EPM19573 up until the partial relinquishment approval date of 31 July 2019.

#### 1.1. Location

The Conjuboy Project area located some 48km northwest of Greenvale, North Queensland (Figure 1), and is located equidistantly from both Cairns and Townsville.

Diatomaceous Earth Investments Pty Ltd. ("DEI") and Greenvale Silicon Pty. Ltd. ("GVS"), under Joint Venture Agreement, "Greenvale Silicon Joint Venture (GVSJV)" hold two Mineral Development Licences (MDL's 325 and 326), four Exploration Permits for Minerals (EPM's 13236 EPM13995, EPM19573 and EPM25110); and one Mining Lease (ML 10279) over the Conjuboy Diatomaceous Earth Deposit.



Figure 1 - Conjuboy Project Location

The project comprises a diatomite-bearing sedimentary sequence that is mined and transported to the Diatomaceous Earth Processing Facility located at Charters Towers, Queensland.

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## 1.2. Topography

The Conjuboy Project is located at an elevation of about 520m and lies on the southern margins of a basalt dome of about 5000km<sup>2</sup> that forms the McBride Plateau. The centre of the dome reaches an elevation of 1,028 metres. The dome comprises numerous basalt lavas that flowed radially outward from 164 volcanic centres. The volcanic centres range from low hills formed by eroded plugs to well preserved cones with craters.

Around the margins, where the basalt is locally 5m thick, surface drainage features are separated by, and run parallel to the basalt flows (Figure 2 B). Basalt flow fronts present low, but distinctive 'jump ups' in the generally subdued topography (Figure 2 A).

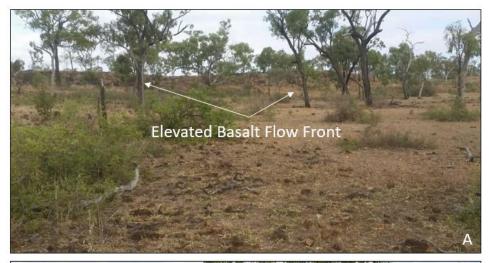




Figure 2 – Typical Local topographic variations seen at the Project Site

The mining project is immediately adjacent to a low basalt wall that represents the southernmost extension of the lava flows. It is located largely on a topographic feature known as Greasy Plain – an area of heavy dark clay. Greasy Plain is located on the fringe of the southern extent of the basalt lava flow and has been developed by intensive in situ chemical weathering of the underlying clayey Tertiary to Quaternary rocks (Figure 2 B), some of which are diatomaceous. It is around 5 metres lower in elevation than the basalt flow.

## 2. General Tenure Information

## 2.1. Percentage Holding

The Conjuboy Project and all related tenement holdings over the Conjuboy Diatomaceous Earth Project were subject to a Joint Venture between Greenvale Silicon Pty Ltd and Diatomaceous Earth Investments Pty Ltd.

This Joint Venture is known as the Greenvale Silicon Joint Venture ("GVSJV"). Greenvale Silicon Pty Ltd. has 80% interest in the project and Diatomaceous Earth Investments Pty. Ltd. has a 20% interest holding.

Table 1 - Percentage Holdings of Diatomaceous Earth Joint Venture Partners

HOLDER	PERCENTAGE (%)	
Diatomaceous Earth Investments P	20.0	
Greenvale Silicon Pty. Ltd.	80.0	
-	TOTAL	100.0

Greenvale Silicon Pty. Ltd. is the nominated principal holder of all Conjuboy Project tenements.

## 2.2. Grant and Expiry Dates for the Project Tenements

Prior to the Partial Relinquishment of the 16 sub-blocks from EPM19573; Exploration Permit for Minerals (EPM) 13236 and EPM13995, EPM19573, EPM25110, Mineral Development Licences (MDLs) 325 & 326; Mining Lease (ML) 10279 grant dates & expiry dates were as follows:

**Table 2 - Conjuboy DE Project Tenement Assignments** 

Conjuboy Diatomaceous Earth Project							
TENEMENT	GRANT DATE	Tenement Size					
EPM 13236	9 March 2001	8 March 2021	6 Sub-blocks				
EPM 13995	M 13995 6 June 2003 6 June 2020		6 Sub-blocks				
EPM 19573	17 Sept 2013	17 Sept 2019 (Renewal Lodged)	52 Sub-blocks				
EPM 25110	9 Sept 2014	9 Sept 2019 (Renewal Lodged)	50 Sub-blocks				
MDL 325	20 April 2001	1 May 2021	3,429 Ha				
MDL 326	20 April 2001	1 May 2021	1,943 Ha				
ML 10279	28 Oct 2004	31 October 2054	133 Ha				

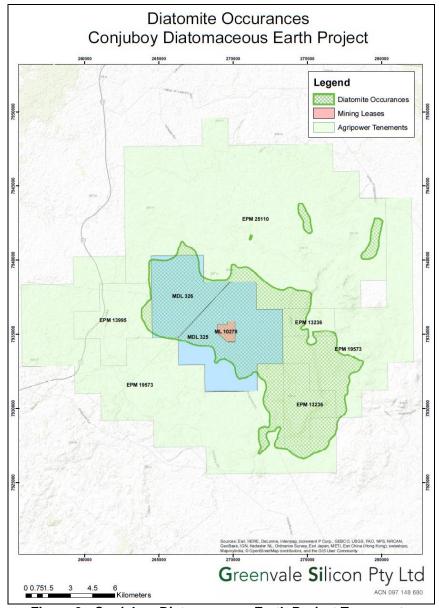


Figure 3 - Conjuboy Diatomaceous Earth Project Tenements

The abovementioned tenements form the 'Conjuboy Diatomaceous Earth Project'.

- MDLs 325 and 326 are located approximately 48km north west of the town of Greenvale.
- EPM 13236 is located approximately 30km north of the town of Greenvale.
- EPM 13995 is located approximately 30km north of the town of Greenvale.
- EPM 19573 is located approximately 22km north of the town of Greenvale.
- EPM 25110 is located approximately 30km north of the town of Greenvale.

#### 2.3. Blocks and sub-block Information EPM19573

Exploration Permit for Minerals (EPM) 19573 (called "Gilldale Project") covers an area of approximately 146km<sup>2</sup> and consists a contiguous portion of the Conjuboy Diatomaceous Earth Deposit.

Prior to the Partial Relinquishment of the 16 sub-blocks from EPM19573; The blocks and sub-blocks or areas which comprise EPM19573, are tabulated below:

Table 3 - Tenement Details for the EPM19573 prior to the partial relinquishment being approved

EPM19573 Tenement details								
Description	TENEMENT	Number of sub-cells	**BIM	*BLOCK No.	SUB-BLOCK No.			
			TOWN	2241	o, p, r, s, t, w, x			
	its for FPM 19573		TOWN	2243	y, z			
		52	TOWN	2244	a, f, l, q, v			
Exploration Permits for Minerals			TOWN	2313	b, c, d, j, k, p			
(EPM's)			TOWN	2314	a, b, f, g, h, l, m, n, o, p, r, s, t, u, y, z			
	TOWN 2315 b, c, d  TOWN 2316	b, c, d, e, f, h, j, k, l, o, q, s, v, w, x						
				TOWN	2316	а		

<sup>\*</sup>BIM = Block Identification Map

## 2.4. Partial Relinquishments

Greenvale Silicon maintain a partial relinquishment strategy to remain in good standing the Department of Natural Resources and Mines (DNRM) and endeavour to relinquish the required amount of sub-blocks within the relinquishment year unless nil-relinquishment is granted for the Tenement Assignment by the Minister or authorised delegate of the Minister upon request under special circumstances by Greenvale Silicon.

Greenvale Silicon Pty Ltd on behalf of the GVSJV as per the agreed relinquishment schedule within the accepted tenement assignment documentation conditions of grant

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<sup>\*\*</sup>TOWN is an abbreviation of Townsville

for EPM19573 and pursuant to s139, s140 and s141 of the Mineral Resources Act 1989 (MRA); submitted the following 16 sub-blocks (listed below) for voluntary partial relinquishment from EPM19573.

EPM19573 – 16 Partial Relinquishment nomination								
BIM	BLOCK	Number of sub- blocks						
TOWN	2241	O, R, S, W, X	5					
TOWN	2243	Z	1					
TOWN	2244	A, F, L, Q, V	5					
TOWN	2313	B, C	2					
TOWN	2315	E, K	2					
TOWN	2316	S	1					
	Total 16							

The partial relinquishment report of 16 sub-blocks relinquished from EPM19573 was submitted to the Department of Natural Resources and Mines on 31 July 2019 and was approved as same by an authorised delegate for the Minister on the same date. The relinquishment becomes effective as at 17 September 2019.

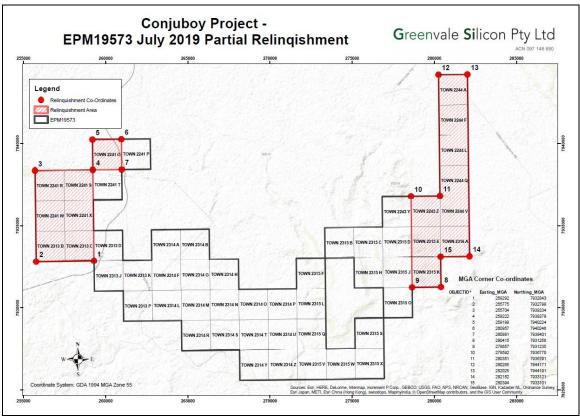


Figure 4 - Partial Relinquishment area of EPM19573 (Larger Image shown in Appendix)

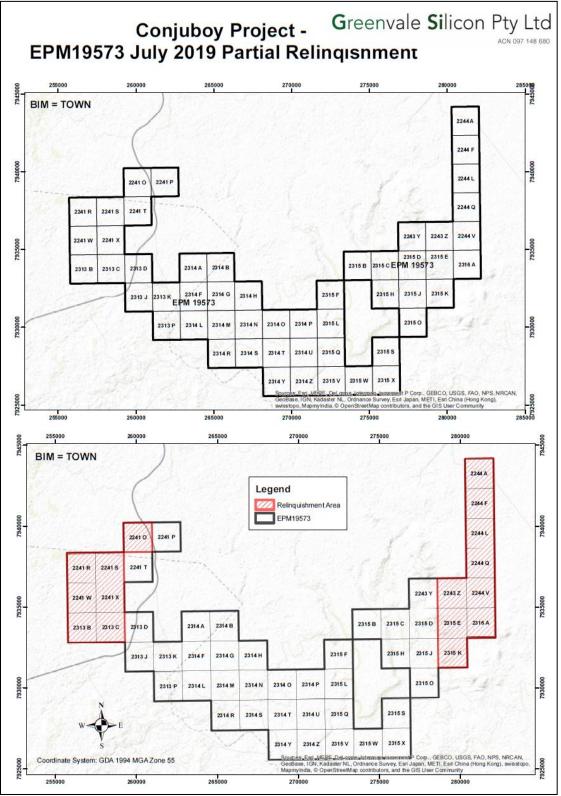


Figure 5 – Comparison maps before and after partial relinquishment of 16 sub-blocks from EPM19573

Table 5 - Tenement Details of EPM19573 after the 16 sub block partial relinquishment was approved

EPM19573 Tenement details								
Description	TENEMENT	Number of sub- cells	**BIM	*BLOCK No.	SUB-BLOCK No.			
			TOWN	2241	P, T			
			TOWN	2243	Υ			
Exploration Permits for	EPM 19573	36	TOWN	TOWN 2313	D, J, K, P			
(EPM's)	Minerals		TOWN	2314	A, B, F, G, H, L, M, N, O, P, R, S, T, U, Y, Z			
			TOWN	2315	B, C, D, F, H, J, L, O, Q, S, V, W, X			

<sup>\*</sup>BIM = Block Identification Map

## 3. LAND USE AND NATIVE TITLE

#### 3.1. Native Title

An Indigenous Land Use Agreement ("ILUA") covering all of the Conjuboy Project tenements was registered on 25 August 2004.

## 3.2. Land Use and Background Tenure

Perpetual Leases ("GHPL"), Grazing Homestead Freehold Leases ("GHFL") and Pastoral Holdings ("PH") as follows:

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<sup>\*\*</sup>TOWN is an abbreviation of Townsville

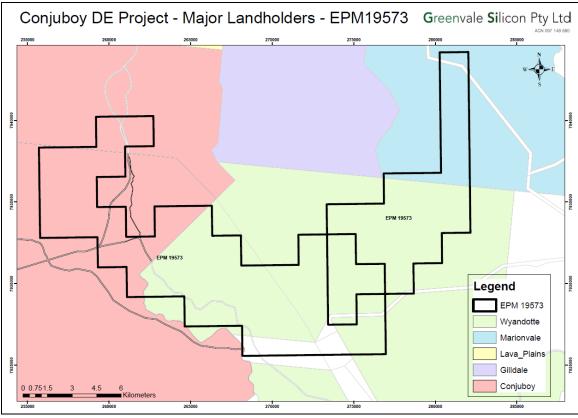


Figure 6 - Background Tenure behind EPM19573

Table 6 - EPM19573 - Background Tenure summary

Mining Tenure	Background Tenure	Tenure Type	Landholder details
	Road/Stock Route	Road	DNRM
EPM19573	Lot 200 on SP232790	GHFL	Wyandotte Station
EFIVIT9373	Lot 4594 on PH1586	PH	Conjuboy Station
	Lot3 GU26	GHFL	Marionvale Station

The effect that the partial relinquishment of the 16 sub-blocks will have on the background tenure of the project is consisted very minor.

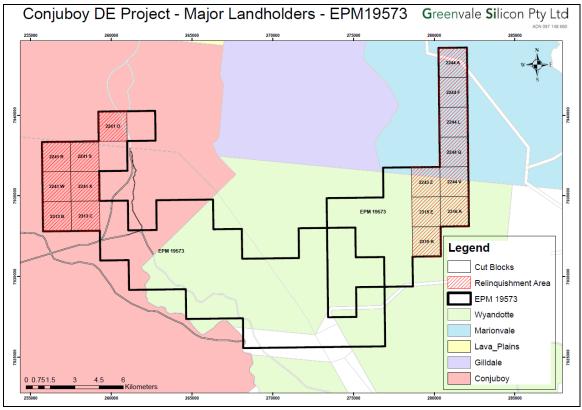


Figure 7 – Background Tenure behind EPM19573 and the relationship of Landholders with the relinquished sub-blocks

## 4. GEOLOGICAL DATA

## 4.1. Regional Geology

Tertiary-Quaternary basalt in the project area is underlain by two superimposed lacustrine basins that both contain diatomaceous earth. Both of these basins sit atop a weathered regolith profile of a Cambrian metamorphic sequence (Figure 8). Other basement sequences in the region include meta-sedimentary rocks of the Upper Cambrian Balcooma Meta-volcanics and igneous rocks of the Upper Cambrian Ringwood Park Microgranite and Silurian Dido Granodiorite.

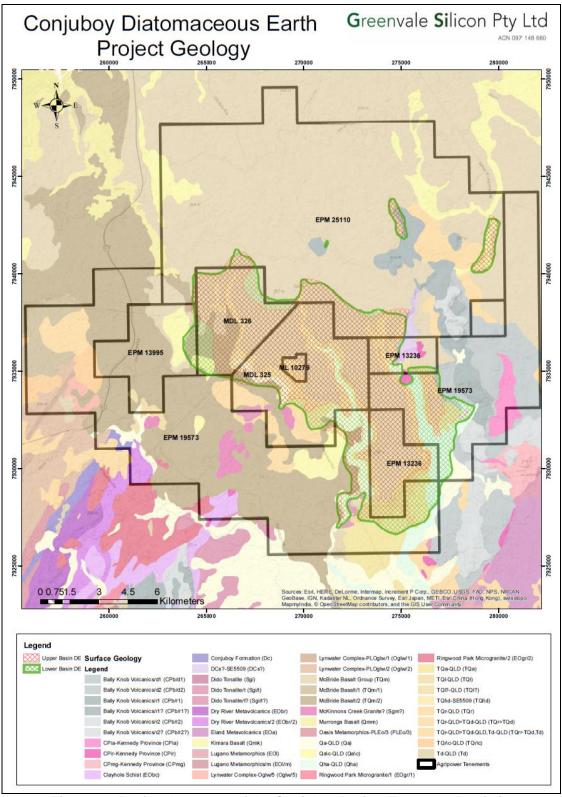


Figure 8 - Regional Geology of the Conjuboy Project Tenement Portfolio

The surface geology of the project is dominated by Tertiary-Quaternary basalt cover that is dissected by the drainage channels of the Wyandotte and Forester Creeks, exposing the Tertiary-Quaternary lacustrine sedimentary basinal and bedrock sequences.

Two separate basin environments have been identified at the project, respectively called the "Upper" and "Lower" Basins.

A thick layer of diatomaceous earth (up to 30m) dominates the Upper Basin sequence. Regionally, the diatomaceous earth within the Upper Basin unit is typically poorly cemented, containing a few clay lenses and minor sandstone intercalations. Where exposed in creek cuttings, the diatomite horizon is around 10-15 metres in thickness, and is covered by 0-5 metres of sandy clay, diatomite rubble, basalt rubble and soil. Locally, the diatomite horizon reaches thicknesses of up to 30m. Minor, with narrow, (10cm), sub-vertical diapric pressure release dykes cutting the sequence sporadically.

This Upper Basin sequence sits stratigraphically above the Lower Basin sequence. The Lower Basin sedimentary sequence is primarily dominated by thin (up to 1m layers of intercalated diatomite layers, high energy lacustrine (normal graded) sediments and volcaniclastic tuff layers that were deposited in an older lake environment prior to the deposition of the low energy Upper Basin Sediments.

The exploitable low energy diatomite resources contained within the Upper Basin seem to be constrained as a somewhat "perched" profile zone above the current day drainage landform.

The fundamental importance of this identification described above in recent years by the exploration team engaged by the GVSJV is the identification of type "Upper Basin" diatomite sequences, their locations and RL's compared to those diatomaceous sediments of the "Lower Basin" which can at this stage not be mined and processed economically.

## 4.2. Paleoclimate History, Basin Architecture and Observed Local Geology

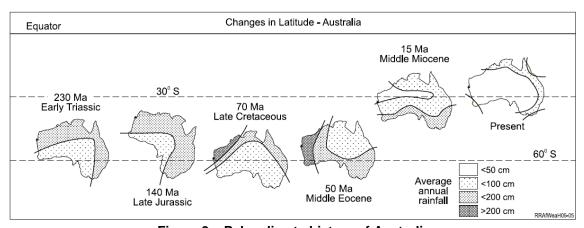


Figure 9 - Paleoclimate history of Australia

The driving force for climate change during the Tertiary was Australia's separation from Antarctica, which began in the latest Early Cretaceous, coupled with global cooling

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which started in the latest Early Eocene and continues to the present. Australia was 25°S of its current position at the beginning of the Tertiary and has since continued to move North through a series of climatic zones, which were themselves changing position over the Tertiary.

In the Palaeocene and Eocene, the climate was warm and wet, rainforests covered most of land and weathering of bedrock in these timeframes was associated with extreme hyper-leaching forming large and thick blankets of regolith, platforms of these are still evident today throughout Australia.

During the Oligocene, the overall temperature became cooler and nearer the present day temperatures. This geological timeframe was associated with dryer climates and the formation of laterites.

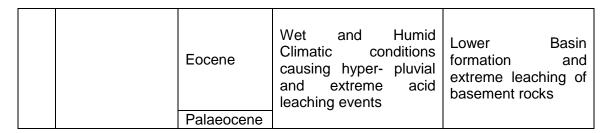
Moving through into the Miocene, the climate again shifted to hotter and wetter conditions with periods of intense rainfall. By the Mid- to Late Miocene the permanent southern icecap had already formed and thereafter the cooling trend again became evident and subsequently drying out of the Australian continent accelerated as the world cooled.

During the Quaternary (approx. the last 2 Ma) there have been at least 20 oscillations from glacial to interglacial climates, caused at least in part, by the changes in the thermal equilibrium. The continent was however tectonically quiescent by the Quaternary and volcanic activity was primarily confined to North Queensland, parts of Victoria and South Australia.

Table 7 – Climatic evolution and associated Local Geology Observations of the Project

	Conjuboy Diatomaceous Earth Project – Geological Evolution							
	Geological Time	eframe	Climate	Geology and Landscape				
Cenozoic	Quaternary (2.6Ma – Today)	Holocene	Current day Weatheri Evolution in the dryer, co	•				
		Pleistocene		McBride Basalts				
	Neogene (23Ma – 2.6Ma)	Pliocene	Dry, cooler periods	(8Ma – 2.7Ma)				
		Neogene		forming lateritic profiles	Laterites developed over the Lower Basin			
		Miocene	Wet and Humid Climatic conditions causing hyper- pluvial and extreme acid leaching events	Upper Basin formation				
	Paleogene (66Ma – 23Ma)	Oligocene	Dry, cooler periods forming lateritic profiles	Thin Lateritic Horizon developed over the Lower Basin				

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Geological interpretation from mapping exercises around the Conjuboy Diatomaceous Earth Project suggests that both the Upper (Lower Energy) and Lower (Higher Energy) Basin lacustrine sediments (Diatomite deposits) were deposited in a fairly shallow basin that was "cut-off" by localized tectonic movements from the south-east.

This tectonic movement elevated and formed ridges to the south of the Conjuboy area and thus blacked off and dammed the freshwater sources to form an inland lake within which the diatomite deposits formed.

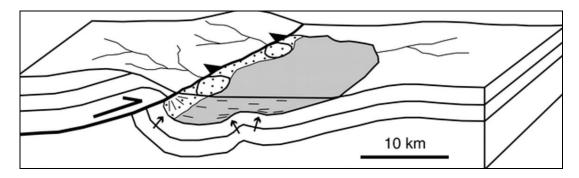


Figure 10 – Basin Architecture where tectonic movement from the south stopped river flow and formed an inland lake

Underneath the two basins containing the diatomite sequences, a basal weathered regolith unit (up to 30m in thickness) is identified. This weathered regolith profile lies above the fresh basement sequences (saprolite) in the project area and was formed over millions of years though the extreme hyper-leaching and chemical weathering of the basement volcanic and igneous rocks.

A laterite profile normally develops above the regolith horizon and this can be identified at numerous sites throughout the project area. Where laterite in mapped on surface, it is a common tell-tale sight that no diatomite will be found underneath it — Geologists should be careful in interpreting this as fact as above the Lower Basin is a thin well developed laterite which formed prior to the deposition of the Upper Basin.

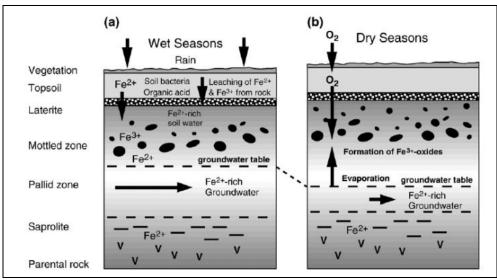


Figure 11 - Chemical weathering processes that form a regolith profile

Tertiary basalt cover overlies the diatomite-bearing sequence at the Conjuboy deposit and has an apparent gentle slope to the west. This slope is accentuated in the southern portion of the area where elevation differences at the base of the basalt straddling Wyandotte Creek infers either some late stage faulting or alternatively, two separate flow events have been mapped at the project site.

Typically the geological profile of the Conjuboy Diatomaceous Earth Deposit can be summarised by Figure 12 and Table 8.

Table 8 - Typical Geological mapping sections identified at the Project Site

Diatomite commonly present where this geological profile is observed		No Diatomite occurs where these geological profiles are observed				
Geological Section 1	Geological Section 2	Geological Section 3	Geological Section 4	Geological Section 5	Geological Section 6	Geological Section 7
Soil Cover	Soil Cover	Soil Cover	Soil Cover	-	Soil Cover	Soil Cover
Tertiary Basalt	-	Tertiary Basalt	-	-	Tertiary Basalt	Tertiary Basalt
Thin soil profile	-	Thin ancient soil and laterite profile	-	-	-	-
Diatomite bearing sequence	Diatomite bearing sequence	-	-	-	-	Thin ancient laterite profile
Thin weathered laterite	Thin weathered laterite	Thin ancient soil and laterite profile	Thin ancient soil and laterite profile	-	-	Older Basalt Flow
Weathered Regolith	Weathered Regolith	Weathered Regolith	Weathered Regolith	Weathered Regolith	Weathered Regolith	Weathered Regolith
Basement Volcanic Rocks	Basement Volcanic Rocks	Basement Volcanic Rocks	Basement Volcanic Rocks	Basement Volcanic Rocks	Basement Volcanic Rocks	Basement Volcanic Rocks

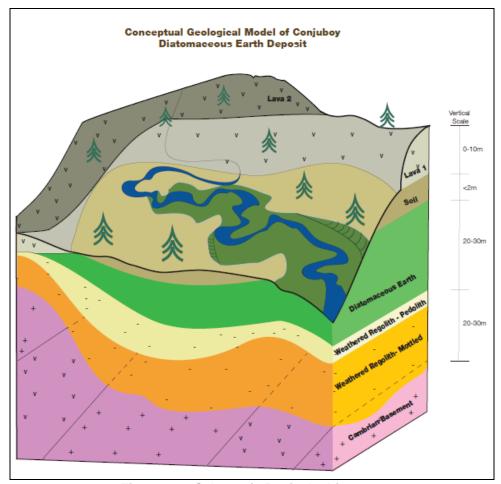


Figure 12 - Schematic Basin Architecture

## 4.3. Local Geology of the Relinquished area of EPM19573

Assessing the typical geological sections from

Table 8 above, diatomite bearing sequences have only assessed to have been identified in areas that resemble cross sections 1 and 2 of the logs – Typical diatomite outcrops are depicted in Figure 16.

Geological field mapping exercises have been continuously conducted over the area of the tenement portfolio and where geological sections 3 through 7 have been identified to exist in an area, this area has no chance of containing any diatomite bearing sequences of any significant interest. Understanding sections 3 through 7, a laterite profile normally develops above the regolith horizon (that significantly predates the deposition of the diatomite bearing sequence in the area), it is a common tell-tale sight that no diatomite will be found underneath it.

Geological mapping exercises have been conducted by the GVSJV geology team over the entire areas of the Conjuboy Project and also on the areas that have been partially relinquished from EPM19573. The local geology of the area is typically covered by either

- 1. A older lateritic profile (Figure 14), or
- 2. a deep weathered basalt plain that directly overlies the Cambrian Basement sequences
- 3. the surface expressions of the deep weathered Cambrian Basement sequence that sits stratigraphically below the Miocene diatomite bearing sequences (Figure 15)

All three of these areas from field mapping alone confirm that no diatomite bearing sequences of significant interest will occur within these relinquished areas and no geochemical testing or samples were taken from the area that has been relinquished.

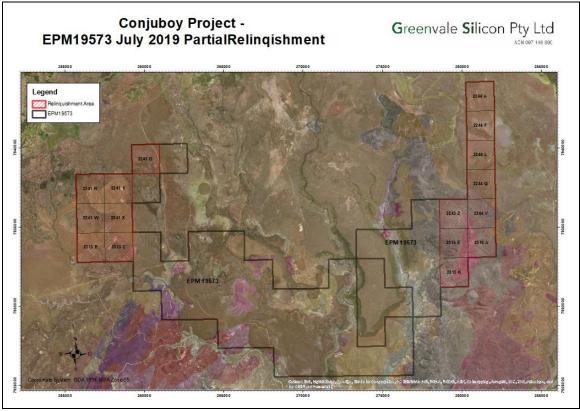


Figure 13 – Satellite image of the relinquished parts of EPM19573



Figure 14 – Typical Pisolitic laterite profile sitting atop of older weathered Cambrian Basement sequences within the project area



Figure 15 – Typical illustration of the weathered basement Cambrian Volcanics that underlie the Diatomite resources at the Conjuboy Diatomite Deposit.



Figure 16 - Examples of mapping sites where diatomite has been identified and sampled within EPM19573

## 5. EXPLORATION RATIONALE

The Conjuboy Diatomaceous Earth Deposit is unique in its architecture. The diatomite bearing sequences are close to surface and has been preferentially preserved to a high degree due to the capping basalts that have ensured only small portions of the deposit have eroded.

Typical exploration techniques such as geological field mapping, aerial photograph interpretation, geochemical sampling, architectural element analysis and drilling and consisted sufficient to define the outcrop extents and provide further information for JORC 2012 Resource categorisation.

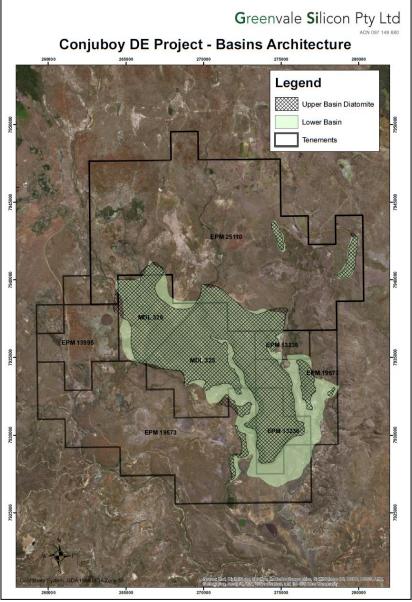


Figure 17 - Diatomaceous Earth Resources within the Tenement Portfolio - July 2019

Over the areas covered by the GVSJV tenement package, and because the package is quite large, there remains a high degree of confidence that further diatomite bearing sequences will be located in the near proximity to the existing mineral resources that have already been defined in the project package.

The GVSJV team has been systematically and constantly assessing potential for further diatomite bearing sequence within the tenement package and have identified areas within the tenement package where no diatomite bearing sequences of economic benefit exist. These areas will be partially relinquished in due course.

## 6. REASON THE HOLDER HAS PARTIALLY RELINQUISHED THE AREA

The 16 sub-blocks relinquished from EPM19573 lie outside of the geological, geophysical and geochemical region of interest in terms of the GVSJV exploration model.

The area has also been fully assessed by the GVSJV geology team by ongoing field mapping and it is understood that the area does not contain diatomite bearing sequences of economic interest to the group.

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## 7. APPENDIX

