



Greater Dandenong City Council attn: Planning Department PO Box 200 Dandenong VIC 3175

16 August 2023

To whom it may concern,

This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright

RE: Proposed Warehouse Development, 7 Princes Highway, Dandenong South VIC 3175 - Matters relating to the *Aboriginal Heritage Act 2006*

Aliro Group, on behalf of ISPT, has requested Jem Archaeology Pty Ltd to provide you with clarification regarding the legislative requirements under the *Aboriginal Heritage Act 2006* and the *Aboriginal Heritage Regulations 2018* for a proposed warehouse development at 7 Princes Highway, Dandenong South VIC 3175 (hereafter referred to as the 'activity area').

Under the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, the preparation of a Cultural Heritage Management Plan (CHMP) is mandatory for any project in which the proposed activity is a high impact activity, and the activity area is situated within a mapped area of cultural heritage sensitivity. If the land within an area of cultural heritage sensitivity has been subject to previous significant ground disturbance, then that area of land is no longer considered to be an area of cultural heritage sensitivity.

The activity area is approximately 12ha in size and comprises land within 7 Princes Highway, Dandenong. The activity area is located approximately 145m west of Eumemmering Creek and is bounded by the Princes Highway road reserve to the north, the Cranbourne/Pakenham rail reserve to the south, and private properties to the east and west. Recent satellite imagery indicates that the activity area currently comprises land within a large commercial/industrial development (Figure 1). A large rectangular structure is present to the centre of the activity area, which is surrounded by an array of smaller structures and asphalt hardstand, which is partly used for car parking. The far western portion of the activity area is characterised by a mix of smaller structures, internal roads and landscaping, with minimal trees present. Small areas of landscaping are present along the activity area's boundaries, and various services, including an electrical substation, are present along its northern boundary. Remnants of a former car park and areas of ground disturbance are present in the southeast corner of activity area. Various materials and vehicles are stockpiled throughout the activity area, particularly in proximity to its southern boundary.

Jem Archaeology Pty Ltd ABN 33 623 815 323 t 03 9726 4498 e contact@jemarchaeology.com.au 3/7 and 7/5 Corporate Boulevard, Bayswater VIC 3153 PO Box 520, Croydon VIC 3136



Figure 1: Satellite image dated to 26 April 2023 showing the current state of the activity area (Nearmap 2023).

It is my understanding that the applicant is proposing to develop the activity area into warehouses. The proposed activity will involve the demolition of most existing buildings within the activity area, and the construction of seven new warehouses with ancillary car parking. Under the *Aboriginal Heritage Regulations 2018*, the proposed activity is considered to be a high impact activity, specifically as it involves the construction of a building or the construction or carrying out of works on land for, or associated with, a specific purpose: a car park (r.46[1][b][iii]) and a warehouse (r.46[1][b][xxix]).

Under the *Aboriginal Heritage Regulations 2018* the activity area lies within one mapped area of cultural heritage sensitivity, specifically as it is located within 200m of a waterway, Eumemmering Creek (r.26). This mapped area of cultural heritage sensitivity is shown in Figure 2.



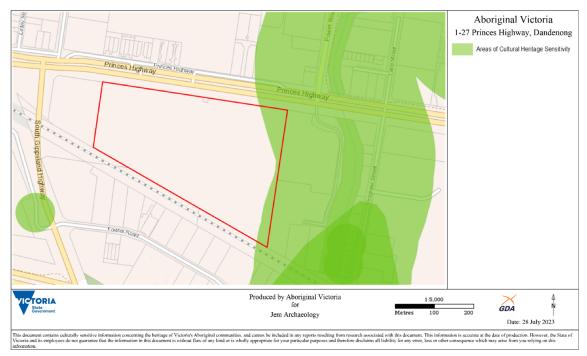


Figure 2: Activity area shown in red, and area of mapped cultural heritage sensitivity highlighted in green.

The Aboriginal Heritage Regulations 2018 defines 'significant ground disturbance' as "disturbance of the topsoil or surface rock layer of the ground or a waterway by machinery in the course of grading, excavation, digging, dredging, or deep ripping, but does not include ploughing other than deep ripping".

Based on the most recent satellite imagery of the activity area (Figure 1), it is considered possible that the activity area may have experienced significant ground disturbance. Therefore, an examination of its land use history has been undertaken.

Historical aerial imagery indicates that the activity area has been subject to modification as early as 1939 (Figure 3). By this time, the activity area had been cleared of most remnant vegetation and comprised of pastoral land. A fence line bisected the activity area approximately to its centre, with small structures present to the centre of the northern boundary. A track running south from the road currently known as Princes Highway was present in the northeast corner of the activity area. By 1951, the Dandenong International Harvester Factory had been constructed within the activity area (Figure 4). The primary structure was present towards the centre of the activity area and surrounded by ancillary structures. Unsealed internal roads were present in the western, eastern and central portions of the activity area. The balance of the activity area was cleared, undeveloped land. By 1968, further development had occurred within the activity area (Figure 5). Extensions to the factory were built to the northeast and east, with formal car parking and/or vehicle storage now present to the north and south. Most internal roads appear to have been sealed. Additional smaller structures had also been constructed to the far west and south of the activity area. Some cleared land remained to the east. Aerial photography dated to 1984 (Figure 6) shows further development within the activity area, particularly in the eastern portion where an additional structure and sealed asphalt car park were now present. Possible ground disturbance can be seen along the activity area's eastern boundary.

An additional car park was also present in the southeast corner of the activity area, and This copied document to be made available, were present along its northern boundary with Princes Highway.



Figure 3: Aerial image dated to December 1939 showing the activity area in red, and earliest evidence of ground disturbance within the activity area (Geoscience Australia 2023).



Figure 4: Aerial image dated to 1951 showing the activity area in red (Landata 2023).



Figure 5: Aerial image dated to 1968 showing the activity area in red (Landata 2023).



Figure 6: Aerial image dated to 17 March 1984 showing the activity area in red (Geoscience Australia 2023).

By 1992, further structures were present in the far eastern corner and southeastern portion of the activity area (Figure 7). This copied document to be made available



Figure 7: Aerial image dated to 29 October 1992 showing the activity area in red (Geoscience Australia 2023).

Satellite imagery dated to April 2005 demonstrates that land in the southeastern corner of the activity area was developed into a sealed asphalt car park and storage area (Figure 8).



Figure 8: Satellite image This copied document tarber example ages 2023, for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any

Conditions within the activity area have remained generally consistent since this time and are comparable with those depicted in Figure 1.

There are two mapped geological formations in the activity area: Red Bluff Sandstone (Nbr) in the western portion, and alluvium (Qa1) in the eastern portion where the area of cultural heritage sensitivity is located. Alluvium (Qa1) is characterised by alluvial floodplain deposits of gravel, sand and silt that were laid down within the last 2.58 million years. To understand the nature and extent of sub surface deposits within the areas of cultural heritage sensitivity present in the activity area, geotechnical investigations were undertaken by AS James Pty Ltd in July 2023 and Greencap in January 2022 (see attached). A total of nine boreholes were excavated along the activity area's eastern boundary to various depths, demonstrating the widespread presence of filling material. In the southern portion of the area of cultural heritage sensitivity, excavation of BH1 demonstrated a silty sandy topsoil fill with organics to 20cm, over a grey/brown mottled orange silty sandy clay fill with gravel inclusions to 110cm, over a pale grey mottled orange clay. To the centre of the area of cultural heritage sensitivity, BH55 demonstrated grass/topsoil to 5cm, over a pale brown/grey sandy gravel fill to 40cm, over a brown/pale brown natural silty clay to 300cm. To the far north of the area of cultural heritage sensitivity, BH7 demonstrated a grey/brown silty clayey topsoil fill with organics and gravel inclusions to 20cm, over a grey silty clay fill with trace gravel inclusions to 100cm, over a grey/mottled orange clay. The results of the remaining boreholes are presented in Appendix A. These investigations demonstrate that all natural topsoils in the activity area associated with the alluvium (Qa1) formation within the area of cultural heritage sensitivity have been removed, causing significant ground disturbance as defined by the Aboriginal Heritage Regulations 2018 (r.5).

Activities involved with the removal of vegetation, preparation of the ground for construction, construction of surfaces, demolition of previous surfaces, construction of new structures and surfaces and the installation of sub surface utilities within the activity area would have involved excavation, grading, scraping and cutting of natural topsoils, and the deposition of introduced filling materials. These activities would have removed all natural topsoils from within the activity area, causing significant ground disturbance, as defined by the *Aboriginal Heritage Regulations 2018*. This is supported by the results of geotechnical investigation detailed above and in Appendix A.

Under the Aboriginal Heritage Regulations 2018, the proposed activity is considered to be a high impact activity (r.46[1][b][iii, xxix]) and the activity area lies within a mapped area of cultural heritage sensitivity (r.26). However, it is concluded that the entirety of the activity area has been subjected to significant ground disturbance as defined by the Aboriginal Heritage Regulations 2018 (r.5), and therefore no longer constitutes an area of cultural heritage sensitivity.

Consequently, in this instance r.26(2) of the *Aboriginal Heritage Regulations 2018* applies and a mandatory CHMP *is not* required to be prepared and approved prior to the commencement of the proposed activity.

Should you wish to discuss this matter further, please do not hesitate to contact me directly.

Kind regards,

Terbonc

Jen Burch (B.Arch [Hons], MAACAI) Director/Archaeologist/Heritage Advisor Jem Archaeology Pty Ltd





JOB: Iveco Site Denotes approximate borehole location - Greencaps	
DANDENONG SOUTH	
Job No: 122382 A Rev1 Date: July `23	Figure 1

Cound Wate: NIL Ground Wate: NIL Ground Wate: NIL Sity Sandy Tosol with Organics Dark Grey, Moist, Loose - Medium Dense Dark Grey, monted Orange Sity, Sandy Clay with Gravels Grey Brown motied Orange Sity, Moist, Sit End of Borehole - Standard Penetration Test - M Mews/150mm, Inc: Undetwiced Sample - Dameter Stated - Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Undetwiced Sample - Dameter Stated - Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: Vane Sheer Strength - Standard Penetration Test - M Mews/150mm, Inc: House State - Penetration Test - M Mews/150mm, Inc: House State - Penetration Test - M Mews/150mm, Inc: House State - Penetration Test - M Mews/150mm, Inc: House State - Penetration Test - M Mews/150mm, Inc: House - Dameter State - Penetration Test - M Mews/150mm, Inc: House - Dameter State - Penetration Test - M Mews/150mm, Inc: House - Dameter State - Penetration Test - Memory - Penetration Tes		A.S.JAMES PTY. LTD. Geotechnical Engineers		Location: 1-27 Princes Highway DANDENONG SOUTH Job No. 122382 A Rev1 Date: July 20					
FILL Sity Sandy Topsoli with Gravels Dark Gray, Moist, Loose - Mudium Dense 0.00 - 0.20 0.00 - 0.20 ADVERTISED PLAN FILL Sity Sandy Clay with Gravels Grey Brown motified Orange Mids, Firm-Stiff 1.00 - 1.10 - 1.1									, ,
Dark Grey, Mold, Luose - Medum Dense 0.20 FILL Sity Sandy Clay with Gravels Grey Brown motified Orange Maist, Frm-Strift 0.20 CLAY (CH) Pate Grey motified Orange Sity, Molet, Strift 1.10 End of Borehole 1.50 This copied document to be made available for the sole purpose of enabling stoosideration and review as part of a planning process under the Planning and Environment Act 1987, The document must not be used for any purpose which may breach any copyright 1.50 + Standard Penetration Test - Nilowal'Sform, Incr. 0. Apparent Cohesion 0. Yuno Skept J L.L. Ligud Limit P.L. Plastic Limit P.L. Plastic Limit P. Plastics Planter	Soil Type	e Description		Depth			Tests	Results	
FLL Sing Stardy Clay with Gravelis Gray Brown motited Orange Moid, Firm-Still CLAY (CH) Paie Grey motited Orange Sing, Moist, Stiff End of Borehole 11.00 This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987, The document must not be used for any purpose which may breach any copyright Claim Planet Planning and Environment I (Charles Angel Compared Compared Stated) * Standard Penetration Test - N blows/150mm, Incr. 1 Undisturbed Sample - Olameter Stated * Vane Shear Strength P Wet Density P Wet Density	FILL								
CLAY (CH) Pale Gray motiled Orange Sity, Moist, Stiff End of Borehole 1.50 This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright L + Standard Penetration Test - N blows/150mm, incr. 1 Undisturbed Sample - Diameter Stated 5 Vane Shear Strength P Wet Density P Met Density P I. Plastic Limit Figure P I. Plastic Limit P I. Plastic Li	FILL	Grey Brown mottled Orange							
This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright • Standard Penetration Test - N blows/150mm. incr. I Undisturbed Sample - Diameter Stated s Vane Shear Strength C Apparent Cohesion C Apparent Cohesion L. L. Liquid Limit Figure 2 P Wet Density P. J. Plasticity Index 2	CLAY (CH)	Silty, Moist, Stiff							
+ Standard Penetration Test - N blows/150mm. incr. I Undisturbed Sample - Diameter Stated S Vane Shear Strength I Undisturbed Sample - Diameter Stated I Undisturbe	Т	for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any			· · · · · · · · · · · · · · · · · · ·				
I Undisturbed Sample - Diameter StatedØ Friction AngleP.L. Plastic LimitFigures Vane Shear StrengthP Wet DensityP.I. Plasticity Index2									
s Vane Shear Strength P Wet Density P.I. Plasticity Index 2					n				Figuro
				-					_
D. POCKET PERETOMETER RESISTANCE I W. MOISTURE Content I S. Linear Shrinkade I		snear strengtn It Penetrometer Resistance		-				inear Shrinkage	_

	A.S.JAMES PTY. LTD. Geotechnical Engineers			Location: Job No. Ground W	DAND 122382	Highway G SOUTH	Borehole 2 Date: July 2023		
Soil Ty	pe Description			Depth		Tests	Results		
FILL	Silty Sandy Topsoil with Organics Dark Grey, Moist, Loose - Medium Dense			0.00 0.20 .	///				
FILL	Silty Clay Dark Grey Moist, Firm-Stiff			0.50					
FILL	Silty Clay trace Gravels Pale Grey tending Grey Dry-Moist, Stiff			· · · · ·					
	ADVERTISED PLAN			2.00					
FILL	Silty Clayey Crushed Rock Brown Dry-Moist, Medium Dense								
	End of Borehole			3.50					
	This copied document to be made availabl for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	le		· · · · · · · · · · · · · · · · · · ·					
I Undi	dard Penetration Test - N blows/150mm. incr. sturbed Sample - Diameter Stated e Shear Strength	Ø	Apparer Friction Wet De			P.L. F	iquid Limit Plastic Limit Plasticity Index	Fi	gure 3
p Poc	ket Penetrometer Resistance	w	Moistur	e Content		L.S. L	inear Shrinkage		

	A.S.JAMES PTY. LTD. Geotechnical Engineers			Location: Job No.	DAND 122382	Borehole 3 Date: July 2023		
Soil Ty	pe Description			Ground W Depth	ater:	NIL Tests	Results	
FILL	Silty Clayey Topsoil with Organics Dark Grey, Moist, Loose - Medium Dense			0.00 0.40 .		10010	nesals	
FILL	Silty Clay trace Gravels Grey Dry-Moist, Firm-Stiff			· · · · · · · · · · · · · · · · · · ·				
	ADVERTISED PLAN			 2.10 .				
FILL	Silty Clayey Crushed Rock Brown Dry-Moist, Medium Dense			· · · ·				
	End of Borehole			3.50				
	This copied document to be made availab for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	le		· · · · ·				
I Und	dard Penetration Test - N blows/150mm. incr. isturbed Sample - Diameter Stated e Shear Strength	Ø	Appare Frictio Wet D		1	P.L. F	iquid Limit Plastic Limit Plasticity Index	Figure 4
	ket Penetrometer Resistance			re Content			inear Shrinkage	

	A.S.JAMES PTY. LTD.			Location		Dringoog	Llighway P	orehole 4	
	Geotechnical Engineers			Location			G SOUTH	Sienole 4	
	deoteonnou Engineero			Job No.		A Rev1	a 000 m	Date: July 2023	
				Ground V	Vater:				
Soil Typ	pe Description			Depth		Tests	Results		
FILL	Silty Clayey Topsoil with Organics			0.00					
	Dark Grey, Moist, Loose - Medium Dense			0.10 .					
FILL	Silty Clay								
	Grey				///		ADVE	RTISED	
	Moist, Firm-Stiff						PL	AN	
				0.70 .					
CLAY (CI	H) Pale Grey mottled Orange Silty, Moist, Firm-Stiff			•					
	End of Borehole			1.50					
				•					
	This copied document to be made availa for the sole purpose of enabling	ble		•					
	its consideration and review as								
	part of a planning process under the								
	Planning and Environment Act 1987. The document must not be used for an	v							
	purpose which may breach any	, ,							
	copyright								
				•					
				· ·					
		1						1	
	dard Penetration Test - N blows/150mm. incr.			nt Cohesion			iquid Limit	Ciaura	
	sturbed Sample - Diameter Stated		Friction Wet De				Plastic Limit	Figure 5	
	e Shear Strength ket Penetrometer Resistance			ensity re Content			Plasticity Index .inear Shrinkage	5	
P 100		,				L		I	

A .5	S.JAMES PTY. LTD.		Location: 1-27 Princes Highway Borehole 5							
Geot	echnical Engineers			DANE	DENONO	GSOUTH				
			Job No.		A Rev1		Date: July 2023			
0.117			Ground W	ater:	NIL					
Soil Type	Description 40mm Asphalt		Depth		Tests	Results				
FILL	Silty Clayey Crushed Rock Brown, Moist, Medium Dense		0.00 0.20 .							
FILL	Silty Clay trace Gravels Grey Brown Moist, Stiff		0.50				RTISED .AN			
CLAY (CH)	Grey Silty, Moist, Stiff		· · · · · · · · · · · · · · · · · · ·							
	End of Borehole		1.50							
pa Pla The	copied document to be made availabl for the sole purpose of enabling its consideration and review as art of a planning process under the anning and Environment Act 1987. e document must not be used for any purpose which may breach any copyright	le								
+ Standard Pe	netration Test - N blows/150mm. incr.	c Appar	ent Cohesion		L.L. Li	quid Limit				
I Undisturbed	Sample - Diameter Stated	Ø Frictio	on Angle		P.L. P	lastic Limit	Figure			
s Vane Shear	Strength	P Wet D	ensity		P.I. P	lasticity Index	6			
p Pocket Pene	etrometer Resistance	w Moist	ure Content		L.S. L	inear Shrinkage				

	A.S.JAMES PTY. LTD			I						
	A.J.JAIVIES PTY. LTD Geotechnical Engineers	-		Location			Highway B G SOUTH	orehole 6		
	Geolechnical Engineers			Job No.		2 A Rev1	G 3001H	Date: July 2023		
				Ground W	later:	NIL				
Soil Typ	pe Description			Depth	_	Tests	Results			
FILL	Silty Clayey Topsoil with Organi	ics		0.00						
	Grey Brown, Moist, Loose - Me	dium Dense								
FILL	Silty Clay trace Gravels			0.20 .						
	Grey					1	ADVE	RTISED		
	Moist, Stiff									
					V//	1	PL	.AN		
				0.90 .		1				
CLAY (CH	H) Grey mottled Orange Silty, Moist, Stiff									
	End of Borehole			1.50						
]							
	This copied document to be made for the sole purpose of enab			•						
	its consideration and review									
	part of a planning process un									
	Planning and Environment Ac The document must not be used									
	purpose which may breach									
	copyright									
L			-							
								ſ		
	dard Penetration Test - N blows/150mm. incl			ent Cohesion			iquid Limit	F !		
	sturbed Sample - Diameter Stated e Shear Strength		Ø Frictio P Wet D				Plastic Limit Plasticity Index	Figure 7		
	e Snear Strengtn ket Penetrometer Resistance			ure Content			Linear Shrinkage	/ / /		
P 1001						L		1		

Clark (CH) Clark (CH) This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must be used for any purpose which may breach any copyright Subtract of a planning process under the Planning and Environment Act 1987. The document must be used for any purpose which may breach any copyright Subtract of a planning to be subtracted any copyright ADVERTISE		A.S.JAMES PTY. LTD.			Location: 1-27 Princes Highway Borehole 7							
Soil Type Description Depth Tests Pesults FILL Sily Clayer Topool with Organics and Gravel Gray Storm, Mast, Losse - Medium Dense FILL Sily Clayer Topool with Organics and Gravel Gray Molat, Firm-Stiff CLAY (CH) Grey motiled Orange Sily, Molet, Stiff End of Borehole This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987, The document must not be used for any purpose which may breach any copyright + Standard Penetration Test - Nblows!150mm. incr. 1 Undsturbed Sample - Diameter Stated Function					Location.			• •	-			
Soil Type Description Depth Tests Results FILL Silly Clayey Topsol with Organics and Gravel Grey Brown, Most, Lose - Medum Denee 0.00 0.									Date: July 2023			
FILL Sliny Clayer Topsol with Organics and Gravel Grey Brown, Moist, Losse - Medium Dense FILL Sliny Clay trace Gravels Grey Moist, Firm Still CLAY (CH) Grey multied Orange Siny, Moist, Siff End of Borehole This copied document to be made available for the sole purpose of enabling to consider at 1987, The document must not be used for any purpose which may breach any copy right + Standard Penetration Test - Nblows/150mm. incr. 1 Undisturbed Sample - Diameter Stated CLAY (CH) Sample - Diameter State CLAY (CH) Sample - Diameter State	Soil Tv	pe Description				vater:		Results				
FILL Sity Clay trace Gravels Gray Moist, Film Suit Image: Sity Moist, Site CLAY (CH) Gray motiled Orange Sity, Moist, Site 1.00 End of Borehole 1.50 This copied document to be made available for the sole purpose of enabling its consideration and review as purpose which may breach any copyright 1.50 * 1.50 * * *<		Silty Clayey Topsoil with Organics and Gra			0.00			rioduto				
Sitty. Moist, Stiff End of Borehole This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright * Standard Penetration Test - N blows/150mm, incr. 1 Undisturbed Sample - Diameter Stated O Apparent Cohesion LLL Liquid Limit PL. Plastic Limit F.	FILL	Grey										
This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planing process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright Image: Comparison of the sole purpose of the	CLAY (CI	Silty, Moist, Stiff			1.50							
I Undisturbed Sample - Diameter Stated Ø Friction Angle P.L. Plastic Limit F		for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright		Appare				jouid Limit				
p Pocket Penetrometer Resistance w Moisture Content L.S. Linear Shrinkage	l Undi s Vane	sturbed Sample - Diameter Stated e Shear Strength	Ø P	Friction Wet De	n Angle ensity		P.L. F P.I. F	Plastic Limit Plasticity Index	Figure 8			





BOR	HOLE	NO, BI	ID CLIENT	NAME:	IVECO .	Trucks A	ustralia Ltd CLIENT NO. C106462 JOB NO. J176126	
PRO.	ECT N	IAME: ES	A				LOCATION: 1-27 Princes Highway, Dandenong South, Vie	С
LOG	GED B	Y: KTK					APPROVED BY: KWK	
DRIL	LING	CONTRAC	CTOR: Drillworx				DRILL METHOD: HA +CC	
TOTA	L HO	LE DEPTH	1: 1.0 M		-		DATE: 14/1 /2022	
N	MENT:	n (c	arpark 7 - 7 QC	.01,0	2009	L.		
Depth (m)	Method		Q	Graphic Log	Moisture	Consistency/Density	Description (Plasticity, colour, particle size and shape, odours/staining, inclusions and comments)	
	17	3CC	1	373-	-		Asphalt (DM-0.05m)	
	-	0.4	BH01.0.2	1	P	mŋ	FILL Gravelly SAND(ODSD = DZm)	
		0.4	DIGISSI			s.	FILL Gravelly SAND (D.OSM - O.Fin) B=Grangianed. W/ grads, m-c grained NO NS. - 6 cg des to B=08 @ 0.3m	
-							- Grades to Brob @ U.Sm	
_		05	BHOLD S		0-m	MD		
		0	acol, acor		0-m	MD	- Purk Green staining @ 0.7m	
-		0.0	BH01.0.7,		V		NATURAL CILL CLAY (07m LOM)	
-							NATURAL: S. Hy CLAY (0.7m. 1.0m) G, med plas.	
							NO.NS.	4
~		0.1	BHOL-1.0		0	F	PO ACM	
_	V						BHOI terminatul @1.0m.	
_								
							This copied document to be made availabl for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright	le
					5 - Saturated	Clay/Silt VS - V Soft F - Ferm VSI - V Soft H - Nard Sand/Gravel V V L - V Lose	Low (PlateDark) = 256 mm (coste bottis or began) - <u>Hödtlar</u> - <u>Roundad</u> Hydroca Medum Grey 64-256 mm (post-it host to coske battla) - Costale , Sub-Roundad Tar (asp High Green 2-64 mm (width of shoatace to post-it nota) - Gravel Sub-Angular Schwitt Ref 0.5-2 mm (pager width to shoatace width) - Coame Sand Angular Anaerot Brown Able to see grams - Sand Organic	



X 2



	Page:	of	, E						
	BORE	HOLE	NO. BH	55 CLIENT	NAME:	IVECO T	rucks Au	ellent no.	J176126
	PROJE	ECT NA	ME: ES	٩				LOCATION: 1-27 Princes Highway, Dandenong	South, VIC
	LOGG	ED BY:	КТК					APPROVED BY: KWK	
				TOR: Drillworx			1	DRILL METHOD:	
	TOTAL	HOLE	DEPTH	4.0m.			È	DATE: 20/1 /2022	
	COMN		UST	Areq					
-	Depth (m)	Method	OId (mdd)	Sample ID	Graphic Log	Moisture	Consistency/Density	Description (Plasticity, colour, particle size and shape, odours/staining, inclusions and comments)	
0.05	ł.,	PT						61055 (Om-0.05m)	
0.4			0.1	BHSS.0.1		D		FILL'Sandy GPD VEL(0.05m -0.4m) 20-PG, F- in grained, sondsif grained. NO.NS. NO Acm.	
ч 	-		0.1	BH55,0.5		9	5+~ US	NATURAL: Silly CLAY (O.4m-3. Om) B-PB, low plas. NO, NS.	
	-		0.7 03	BH55-1.0 BH55-2,0		D	st ust	NO AUN.	
			÷	313-3-0		n			
3.Om			0.4	BH 55.3.0		D	St-vSt	VATURAL: SAL CLAY (200 - 2) -	
	-		(Conner (fal.			VATURAL: Sondy CLAY (3.0m - 3.5m PB mottled OB, low - mel plas. ND, NS. VO Acm.	
3.5m			1.3	BH55-4.D	1 2	D-M	MD-D	VATURAL: Clayer SANDC3.5m - 4.0m) 26 mottled OB, fim grained. 13. NJ, VO Acm.	
ų, em								BHSS tominatel @ 4.04	
its con part of a	sole p sidera plann	ourp tion ing p	ose of and proce	fenabling review as ss under th		D - Dry W- Wet S - Saturated	Clay/Silt V5 - V Soft S - Soft F - Firm	Iasticity Colour Particle Size Particle Size ow (Pak/Dark) - 255 mm (cose bottle or bager) - Soukter Rounded Indium Grey 64-255 mm (cost if note to coke bottle) - Cobble Sub-Angul gh Green 2-64 mm (wild) of shotbace to post-1 note) - Gravel Sub-Angul	Hydrocarbon (petrol station) ed Tar (asphalt)
The docum	ent m e whi	ust i ch m	not be	nt Act 198 e used for a reach any			F - Firm St - Stiff VSt - V. Stiff H - Hard Sand/Gravel VL - V. Loose L - Loose D - Dense VD - V. Dense VD - V. Dense	Igh Green 2-64 mm (width of shoebace to post-4 nots) - Gravel Sub-Angula Red 0.52 mm (pager width to shoebace width) - Canave Sand Angular Brown Able to see grains - Sand Yallow Not able to see grains - Fine Grained (silt or clay) Motified	r Solvent (swotk) Anaroto (roting) Organic (tertiliser) Ammonis (cal litter)