

# *Sloane Weldon* Pty.Ltd.

=====*Engineering & Groundwater Geologists*=====

ACN 066 426 195

'Westella'  
181 Elizabeth Street Hobart  
GPO Box 321 HOBART 7001  
Ausdoc: DX 77181 Hobart 'Westella'

Telephone: (002) 34 3994  
Facsimile: (002) 34 3995  
Mobile: (018) 12 8151  
(015) 87 3399

43 027

12326

*SW Report: 1995/96*

**FOUNDATIONS & STABILITY ASSESSMENT:  
ACID STORAGE BUNDING PROJECT  
PASMINGO EZ, RISDON**

REF Nos 18860 18861 18862 18863

**Client: LPH (Tas) Pty Ltd**



**EXPLANATION SHEET FOR ENGINEERING LOGS**

**Borehole and Excavation Log**

Penetration	Water	Notes - samples and tests	Material classification
		<p>UD50 Undisturbed sample 50mm diameter.</p> <p>D Disturbed sample.</p> <p>N Standard penetrometer blow count for 300mm.</p> <p>SV Vane Shear test.</p> <p>PP Pocket Penetrometer test.</p>	<p>Based on Unified Soil Classification System.</p> <p>In Graphic Log materials are represented by clear contrasting symbols for each project.</p>
<p><b>Moisture content</b></p> <p>D Dry, looks and feels dry.</p> <p>M Moist, no free water on hand when remoulding.</p> <p>W Wet, free water on hand when remoulding.</p> <p>LL Liquid limit.</p> <p>PL Plastic limit.</p> <p>PI Plasticity index.</p> <p>eg: M&gt;PL Moist, moisture content greater than plastic limit.</p>	<p><b>Consistency</b></p> <p>(kPa)</p> <p>VS Very soft. &lt; 25</p> <p>S Soft. 25 - 50</p> <p>F Firm. 50 - 100</p> <p>St Stiff. 100 - 200</p> <p>Vst Very stiff. 200 - 400</p> <p>H Hard. &gt; 400</p> <p>Fb Friable.</p> <p>Notes: x on log is test result ■ is range of results.</p>	<p><b>Density index</b></p> <p>%</p> <p>VL Very loose. 0 - 15</p> <p>L Loose. 15 - 35</p> <p>MD Medium dense 35 - 65</p> <p>D Dense. 65 - 85</p> <p>VD Very dense. 85 - 100</p>	

**Cored Borehole Log**

Case - lift	Fluid loss	Graphic log
<p><b>Weathering</b></p> <p>Fr Fresh.</p> <p>SW Slightly weathered.</p> <p>HW Highly weathered.</p> <p>EW Extremely weathered.</p>	<p><b>Strength</b></p> <p>Point load strength index <math>I_{p(50)}</math> (MPa)</p> <p>EL Extremely low. &lt; 0.03</p> <p>VL Very low. 0.03 - 0.1</p> <p>L Low. 0.1 - 0.3</p> <p>M Medium. 0.3 - 1.0</p> <p>H High. 1.0 - 3.0</p> <p>VH Very high. 3.0 - 10.0</p> <p>EH Extremely high. &gt; 10</p> <p>Note: x on log is test result.</p>	<p><b>Significant defects</b></p> <p>Significant defects shown graphically.</p>



REF No 18861

E 525890  
N 5257820

+ 50<sup>m</sup>

82  
83122

**Sloane Weldon Pty. Ltd.**  
Engineering & Groundwater Geologists.

43 032

Borehole Number.  
**BH2**  
sheet 1 of 1

# ENGINEERING LOG - BOREHOLE

project **Acid Storage Bunding Project.** location **Pasminco EZ, Risdon**

co-ordinates	E933 N998	drill type	Pioneer 160	hole commenced	12/12/95
R.L.	Approx. 16.3m	drill method	HQ Washbore	hole completed	12/12/95
inclination	Vertical	drill fluid	Water & polymer	logged by	BDW
bearing		contractor	KMR Drilling	checked by	

penetration	water	support	notes sample, tests	metres		graphic log	classification symbol	material  soil type; plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency	density index	hand penetr- ometer				structure, geology
				R.L.	depth							kPa	mm	mm	mm	
123							GC	GRAVEL: Fine to coarse; yellow-brown; moderately to slightly weathered medium subangular dolerite gravel; approx. 30-40% dolerite boulders to 400mm dia. in a highly plastic clay matrix.	M	MD					FILL	
					1.0											
					1.45											
					1.91											
					2.0											
					2.95											
					3.0											
					3.49		CH	CLAY: Medium to high plasticity; greyish-brown; some medium to coarse sand and moderately to slightly weathered dolerite, fine gravel.	M	St					BURIED SOIL	
			0.50		3.59			BEDROCK: Moderately weathered medium subangular dolerite gravel; yellow-brown-grey; subvertical joints.							IN-SITU WEATHERED DOLERITE BEDROCK	
					4.0											
					4.45			TERMINATED: Required depth 4.45m.								



REF No 18863

E 525890 ± 50<sup>m</sup>  
N 5257830

82  
83122

**Sloane Weldon Pty. Ltd.**  
Engineering & Groundwater Geologists.

Borehole Number.  
**BH4**  
sheet **1** of **1**

# ENGINEERING LOG - BOREHOLE

43 030

project **Acid Storage Bunding Project.** location **Pasminco EZ, Risdon**

co-ordinates	E960 N1032	drill type	Pioneer 160	hole commenced	12/12/95
R.L.	Approx. 14.7m	drill method	HQ Washbore	hole completed	12/12/95
inclination	Vertical	drill fluid	Water & polymer	logged by	BDW
bearing		contractor	KMR Drilling	checked by	

penetration	water	support	notes sample, tests	metres		graphic log	classification symbol	material  soil type; plasticity or particle characteristics, colour, secondary and minor components	moisture condition	consistency density index	hand penetr- ometer				structure, geology
				R.L.	depth						kPa				
1 2 3							GC	GRAVEL: Fine to coarse; yellow-brown; moderately to slightly weathered medium subangular dolerite gravel; approx. 30-40% dolerite boulders to 400mm dia. in a highly plastic clay matrix.	M	MD					FILL
					1.0										
					1.50										
					2.0										
					3.00										
					4.00										
			U50		4.27		CH?	CLAY: High plasticity?; dark brown-black; when barrel withdrawn.							BURIED SOIL PROFILE?
					4.50		CH	CLAY: High plasticity; dark brown; trace coarse, subangular to angular moderately to slightly weathered dolerite gravel; MC>PL	M	St					
					4.70										
					5.05			BEDROCK: Moderately weathered medium subangular dolerite gravel; yellow-brown-grey; subvertical joints.							IN-SITU WEATHERED DOLERITE BEDROCK
					6.00										
								TERMINATED: Required depth 6.00m.							