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QLD\_DMR\_LIB\_01A GLB Log A\_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSVILLE RING ROAD 4 GEANEY LANE.GPJ <<DrawngFile>> Datgel CPT Tool gilnt Add-In 17/10/2013 11:47

# **ENGINEERING**BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No	BH401
SHEET	_1_ of _3_
REFERENCE No	H11489

PROJ	ECT	<u>Tov</u>	w <u>n</u> :	s <u>ville R</u>	ing F	Road Section 4		_							
LOCA	TION	<u>Ge</u>	a <u>n</u>	e <u>y Lane</u>	<u>Ov</u>	erpass		_			(	COORDI	NATES <u>464715</u>	5. <u>5 E; 7871645.0</u>	<u>N</u>
PROJ	ECT No	_ <u>FG</u>	60	20		SURFACE R.L. <u>12.33m</u> PLUNGE		_		DATE STARTED	18/	4/13	GRID DATUM	GDA 94	
JOB N	lo	_268	<u>3/1</u>	<u>0M/5</u>		HEIGHT DATUM <u>AHD</u> BEARING		_		DATE COMPLETED	19/	4/13	DRILLER	Cairns Drilling	
DEPTH (m)	R.L. (m)	NÜGER SASING VASH BORING		RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	SC	VEATHERING	INTACT DEFECT STRENGTH SPACING (mm)  TIT STEEN STRENGTH SPACING (mm)	GRAPHICIOG		ADDITIONAL AND		SAMPLES TESTS
- 0	12.33	10>		REC %	0)	Clayey SAND (FILL)	×	1	۱ >	<del>-                                      </del>		,			00 F
- - - - - - - 1 - - -					Α	Dark grey to dark brown, dry to slightly moist, dense to very dense. Fine to medium grained sand with coarse grained bands in part.		(8	SC)					10,21,28 N=49	SPT -
-	10.73	H	ı				_ 💥				↓_			20,30/130_	CDT
- - -2 - -					В	<b>Clayey SAND</b> Pale brown/brown to orange, dry to slightly moist, very dense. Fine to medium grained sand.				± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±				N>50	SPT [
     3					С	Iron staining in part.				<u> </u>				23,30/120 N>50	SPT _
-					D									30/100\	SPT
- - - - -4 - - -														N>50 <sup>1</sup>	- - - - - - -
 - - - - - - - - - - - - - -					Е	Becoming fine grained sand with trace fine gravel.	e ///	(5)	SC)					25,30/80 N>50	SPT -
- -6 - - - - - - - - - - - - - - - - -					F	Becoming medium to coarse grained sand	1.							30/140 N>50	SPT -
- - - - - - - 8					G	Sandy Clay band. Pale brown to yellow brown.				+				10,21,30/110 N>50	SPT -
- - - - - - 9 - - - - - - - - - - - - -	2.33				Н									22,30/90 N>50	SPT :
RE	EMARK	s						_						LOGGED BY	
								_						VP	



QLD\_DMR\_LIB\_01A GLB Log A\_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSVILLE RING ROAD 4 GEANEY LANE.GPJ <<DrawngFile>> Datgel CPT Tool gilnt Add-In 17/10/2013 11:47

# **ENGINEERING**BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No	BH401
SHEET	$-\frac{2}{2}$ of $-\frac{3}{2}$
REFERENCE No	H11489

PROJECT				Road Section 4						
				erpass 12 22m PLUNCE						OORDINATES 464715.5 E; 7871645.0 N
JOB No				SURFACE R.L. <u>12.33m</u> PLUNGE _ HEIGHT DATUM <u>AHD</u> BEARING _						
R.L. (m)	AUGER CASING WASH BORING	RQD ()%	N.E	MATERIAL DESCRIPTION			1	INTACT STRENGTH SPACING (mm)   SPACING (mm)  SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND TEST RESULTS  SAW SAW SERVICE STREET
10 2.3	3₹5≱8	REC %	SA	01111	5	S	٦	NONON WCLETCH	GR	\$ ₽
	3		J	Silty CLAY Pale brown to brown, moist, hard. Low plasticity.		(CI	L)			9,16,29 N=45
			К	Clayey SAND Pale brown, brown, slightly moist, very dense. Medium to coarse grained sand.						18,30/130 N>50
			L			(80	C)			19,27,30/110 N>50 SPT
- - - - - - - - - - - - - - - - - - -			М							17,30/120 N>50 SPT =
-16 -3.8	7		N	Silty CLAY Pale brown, slightly moist, hard. Low plasticity.		(CI				22,30/100 N>50
	7		Р	NOI CANIC PRECCIA						12,23,30/135 N>50 SPT =
- - - - - - - - - - - - - - - - - - -			Q	VOLCANIC BRECCIA Pyroclastic rock consisting of angular fragments embedded in a finer grained matrix. XW:Generally exhibits the engineering properties of a red, pink to grey, brown, slightly moist, very dense, Clayey Gravelly Sand. Fine to coarse grained, subangular gravel.		xv	v			21,30/105 N>50
REMAR	KS									LOGGED BY
										- VP



QLD\_DMR\_LIB\_01A GLB Log A\_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSVILLE RING ROAD 4 GEANEY LANE.GFJ <<DrawingFile>> Datgel CPT Tool gibt Add-in 17/10/2013 11:47

### ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No \_\_\_BH401\_\_\_

SHEET \_\_3\_\_ of \_\_3\_\_

REFERENCE No \_\_\_H11489\_\_\_

PRO	JECT	_Town	ns <u>vi</u> ll <u>e</u> R	ing F	Road Section 4						
LOC	ATION	<u>Geaney Lane Overpass</u> COORDINATES 464715.5 E; 7871645.0 N									OORDINATES 464715.5 E; 7871645.0 N
PRO	JECT No	No <u>FG6020</u> SURFACE R.L. <u>12.33m</u> PLUNGE DATE STARTED <u>18/4/13</u>								13 GRID DATUM <u>GDA 94</u>	
JOB No <u>268/10M/5</u>			HEIGHT DATUM <u>AHD</u> BEARING _				DATE COMPLETED _	19/4/ <u></u>	13 DRILLER <u>Cairns Drilling</u>		
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	nsc	WEATHERING	INTACT DEFECT STRENGTH SPACING (mm)  UNITED NO.	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS  ADDITIONAL DATA  SUBJECT  SUBJ
-21					VOLCANIC BRECCIA XW: (Cont'd)	000000000000000000000000000000000000000	xv				30/50 N>50 SPT 30/125 N>50
-24	-11.72 -14.67		(0) 100 (0)		MW: Red, pink to brown, grey, fine to coarse grained, very low to medium strength. Clasts (sizing from 2mm to 50mm diameter) in a finer grained matrix. Defects: - Joints @ 30° (1/m) - Joints @ 45° (1/m) - Irregular Jonts (2-3/m) Defects are generally planar to irregular, rough, open, clay infilled. Defect spacing: close to medium.	444444444444444444444444444444444444444	MV	~			SPT
-28 28 29 30	EMARK	6			Borehole terminated at 27m						LOGGED BY
											. VP

### **CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



Project Name	Townsville Ring Road Section	on 4	
Project Name Project No	FG 6020	Date	19/04/13
Borehole No	BH 401	TMR H No	11489
Location	Geaney Lane Overpass	Start Depth (m)	24.00
Detail	Abutment A (Right)	Finish Depth (m)	27.00
Chainage	/ todamone / ( tilgin)	Submitted By	MS
Remarks		,	
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0 100	200 300	400 500 600	700
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