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		7							SOIL LOG				OLL NO.	BH BV
PROJE	СТ	: Br	isban	e Vall	ey Gra	ade :	Sep	aration	JOB NO: QB10200.4			PAGE	: 1 OF 4	
POSITION: E: 470395, N: 6949811 (56 MGA94) RIG TYPE: Hydrapower Scout								MGA94)	SURFACE ELEVATION : 59.9 (AHD)			ION : Brisba		
DATE D						/11			CONTRACTOR: GeoDrill - T Partleton LOGGED BY: LN CHECKED	RY · VP			ZIMUTH : 90 ARD : AS17	
			B DAT						EGGGED BY . EN GNEGKEE			017442	7.1.12 . 7.017	
DRILLING & WATER DETAIL	Moisture Content	Dry Density	% Fines	Atterberg Limits	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Char Secondary and Minor Components	acteristic	MOISTURE	CONSISTENCY/ RELATIVE DENSITY QV/1S QV/1S T/8	Field	MMENTS Test Data Observations
	δ							XXXX	BITUMEN GRAVEL FILL - fine to coarse sand and grav	val. grav to blook lumpy		S/L F/MD St/D	0.00: Bitumen L	oose Fill
Groundwater					2.50m D 2.3.4 N=7	59.4- 58.9- 57.9-	-0.5		SAND - silty gravelly SAND, fine to coarse sand, fine to moist, loose. 50m CLAY - sandy CLAY, high plasticity, light brown streaks sand, moist, hard. 10m CLAY - silty sandy CLAY, high plasticity, light orange g moist, very stiff.	d red, fine to coarse	M		1.60: Fill	
AS AUWB WRR RC	_ = V	uger ore olling OUNI Vater	DWAT	HQ NQ PQ NMLC ER SY static)	HQ Cor NQ Cor PQ Cor NMLC MBOLS drilling)	ring ring Cori	ng	HP Hand HV Hand (P: Peak N SPT I HW SPT	SAMPLES & FIELD TESTS urbed Sample SPT SPT Sample Soil Sample U Undisturbed Tube Samp Water Sample W Water Sample I Penetrometer I Vane Shear Su R: Residual Su) Jows per 300mm penetration by hammer weight penetration by rod weight	MD Medium Dense D Dense	0 - 4 4 - 7 10 - 30 - 50 -	4 V 10 S - 30 F - 50 S	VS Very Soft S Soft Firm St Stiff VSt Very Stiff	Y (Su) {N-value} < 12 kPa {0- 12 - 25 {2-4 25 - 50 {4-8 50 - 100 {8-1 100 - 200 {15 > 200 kPa {>

SKM									SOIL LOG	HOLE NO: BH BV			
PROJECT		Bri	sbar	ne Va	lley Gra	ade	Sepa	aration	JOB NO : QB10200.4		PAGE : 2 OF 4		
POSITION	l :	E:	470	395, N	N: 6949	811	(56	MGA94	SURFACE ELEVATION: 59.9 (AHD)		LOCATION : Brisbane Valley Hwy		
RIG TYPE									CONTRACTOR: GeoDrill - T Partleton		DIP / AZIMUTH : 90°		
DATE DRI					to 10/5/	/11			LOGGED BY: LN CHECKED BY: VP	1	STANDARD : AS1736		
DRILLING & WATER DETAIL	Moisture Content	Dry Density	DA Seulus %	Atterberg Limits	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE	CONSISTENCY / RELATIVE DENSITY DENSITY COMMENTS Field Test Data & Other Observations		
					4.50m 8, 19, 20 N=39	55.9- - 55.4-	4.0		CLAY - sandy CLAY, high plasticity, light orange grey mottled red, fine to coarse sand, moist, very stiff to hard. 4.50m CLAY - sandy silty CLAY, high plasticity, grey with orange/red layering (extremely weathered ironstone), fine to coarse sand in layers, moist, hard.	м			
Groundwater					4.95m 5.50m SPID	- 54.4-	5.5		CLAY - sandy CLAY, high plasticity, orange mottled grey, fine to coarse sand, moist, very stiff. 5.50m CLAY - sandy CLAY, high plasticity, grey with orange streaks and layering,	М			
					11. 15, 26 N=41	53.9	6.0		some orange/red extremely low strength and extremely weathered ironstone layering, fine to coarse sand, moist, hard. 6.00m CLAY - sandy CLAY, high plasticity, grey mottled orange, fine to coarse sand moist, very stiff to hard.	м			
HA Hand	d Au		RILLII	HQ	6.50m SPP 30/110m N=R (6.61m	ring	6.5		IRONSTONE - extremely weathered, very low strength, orange red brown, segme fine sand. CLAY - sandy CLAY, high plasticity, grey mottled orange, fien sand, moist, very stiff to hard. SAMPLES & FIELD TESTS SAMPLES & FIELD TESTS SAMPLES & FIELD TESTS DENSITY (No. 1) VL. Very Loose	M M I-value 0 - 4			
▼ :	hbo Rol GRC = W	lling OUNI ater l	evel	TER S	NQ Co PQ Co C NMLC YMBOLS) g drilling)	ring Cori	ng	HP Ha HV Ha (P: Pe N SP HW SI	nv Soil Sample nv Water Sample W Water Sample U Undisturbed Tube Sample W Water Sample L Loose MD Medium Densi D Dense VD Very Dense CO Compact T blows per 300mm PT penetration by hammer weight PT penetration by rod weight	30 - 50 -	- 30 F Firm 25 - 50 {4-8		

HOLE NO: BH BV 5 **SOIL LOG** PAGE: 3 OF 4 PROJECT: Brisbane Valley Grade Separation JOB NO: QB10200.4 POSITION : E: 470395, N: 6949811 (56 MGA94) LOCATION: Brisbane Valley Hwy SURFACE ELEVATION: 59.9 (AHD) RIG TYPE: Hydrapower Scout DIP / AZIMUTH : 90° CONTRACTOR: GeoDrill - T Partleton STANDARD: AS1736 DATE DRILLED: 10/5/11 to 10/5/11 LOGGED BY: LN CHECKED BY: VP LAB DATA SAMPLES & SPT DATA GRAPHIC LOG DRILLING WATER DETAIL MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components MOISTURE COMMENTS Ξ Moisture Conten Atterberg Limits Dry Density Field Test Data % Fines 닕 & Other Observations S/L F/MD St/D /St/ CLAY - sandy CLAY, high plasticity, grey mottled orange, fien sand, moist, very stiff to hard. *(continued)* М 7.50n SPTP CLAY - high plasticity, grey with orange brown streaking and layering, moist, hard. Some extremely weathered and very low strength ironstone layering. 16, 21, 27 N=4 SILT - sandy SILT high plasticity finest, grey with some orange streaking, some fine sand, moist, hard. SKM SOIL LOG BRISBANE VALLEY GRADE SEPARATION TP,AH AND BH LOGS.GPJ <<DrawingFile>> 29/11/2011 11:29 SILT - high plasticity, light orange grey, moist, hard 13, 30/100m N=R М Log SAMPLES & FIELD TESTS (WORKIN-BRISBANE) **DRILLING** CONSISTENCY (Su) {N-value} DENSITY (N-value) Disturbed Sample Env Soil Sample SPT SPT Sample U Undisturbed Tube Sample Hand Auger HQ **HQ** Coring VL Very Loose 0 - 4 ٧S Very Soft < 12 kPa {0-2} Auger Washbore NQ PQ NQ Coring PQ Coring Loose 4 - 10 S Soft 12 - 25 {2-4} EW Env Water Sample W Water Sample MD Medium Dense 10 - 30 25 - 50 {4-8} Firm Rock Rolling NMLC NMLC Coring D Dense 30 - 50 St Stiff 50 - 100 {8-15} **HP Hand Penetrometer** MOISTURE CONDITION
D = Dry M = Moist W = Wet **GROUNDWATER SYMBOLS** HV Hand Vane Shear D = Dry
(P: Peak Su R: Residual Su)
N SPT blows per 300mm
HW SPT penetration by hammer weight VD Very Dense 50 - 100 VSt Very Stiff 100 - 200 {15-30} = Water level (static) CO Compact >50/150mm Н Hard > 200 kPa {>30} = Water level (during drilling) AGS RW SPT penetration by rod weight SKN

		K	Л						SOIL LOG		HOL	E NO: BH BV \$
PROJE	СТ	: Br	isban	e Val	ley Gra	ade	Sepa	aration	JOB NO: QB10200.4		PAGE: 4 (OF 4
						811	(56	MGA94)	SURFACE ELEVATION : 59.9 (AHD)			: Brisbane Valley Hwy
RIG TY					cout o 10/5/	111			CONTRACTOR: GeoDrill - T Partleton LOGGED BY: LN CHECKED BY	· \/P	DIP / AZIMU STANDARD	
	<u> </u>		DA1			!			EGGGEBT : EN GNEGREBT		O 17 II VD7 II 1D	. 1101700
DRILLING & WATER DETAIL	Moisture Content	Dry Density	% Fines	Atterberg Limits	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteris Secondary and Minor Components	stic HOLES	CONSISTENCY / RELATIVE DENSITY O Q Q / S Q Q / 185 A	COMMENTS Field Test Data & Other Observations
					SPP0 17, 23, 30/110m N=R	m 48.9			SILT - high plasticity, grey with orange brown mottling, moist, Note organic layer at 10.5 to 10.6, black, organic odour, son sand.			
Groundwater					11.50m SPT 18, 30/100m N=R	- 48.4- m	11.5		1.50m SILT - high plasticity, orange grey, moist, hard.	М		
	-					- 47.4- 46.9-	12.5		2.50m Terminated @ 12.5m. No water encountered.			
						46.4-	13.5					
AS A WB W RR R	_ = V	uger ore olling OUNI Vater	DWAT	HQ NQ PQ NMLC ER SY static)	HQ Cor NQ Cor PQ Cor NMLC 'MBOLS drilling)	ring ring Cori	ng	HP Han HV Han (P: Peal N SPT HW SP1	d Penetrometer d Vane Shear D - Dog M - Majet W - Wort	MD Medium Dense 10 D Dense 30 VD Very Dense 50	4 VS 10 S F -50 St VSt	SISTENCY (Su) {N-value} Very Soft