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## SOIL LOG

HOLE NO: BH BV 1

PROJECT : Brisbane Valley Grade Separation	JOB NO : QB10200.4	PAGE : 1 OF 4
POSITION : E: 470439, N: 6949653 (56 MGA94)	SURFACE ELEVATION : 56.8 (AHD)	LOCATION : Brisbane Valley Hwy
RIG TYPE : Hydrapower Scout	CONTRACTOR : GeoDrill - T Partleton	DIP / AZIMUTH : 90°
DATE DRILLED : 11/5/11 to 11/5/11	LOGGED BY : LN	CHECKED BY : VP
STANDARD : AS1736		

DRILLING & WATER DETAIL	LAB DATA				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				COMMENTS Field Test Data & Other Observations
	Moisture Content	Dry Density	% Fines	Atterberg Limits							S / L F / MD SI / D VS / VD				
Groundwater					D				CLAY - high plasticity, dark brown, moist, firm.	M				0.00: Topsoil 0 to 0.3m.	
					0.80m D	56.3	0.5		CLAY - sandy silty CLAY, high plasticity, grey streaked orange brown, fine to coarse sand, moist, very stiff.	M				1.00: SPT Recovery: 0.45 m	
					1.00m SPT N=16	55.8	1.0		SILT - sandy clayey SILT, high plasticity fines, grey mottled orange brown, some fine sand, moist, very stiff.	M					
					1.45m 1.50m D 1.60m	55.3	1.5		CLAY - sandy CLAY, high plasticity, light orange brown, fine to coarse sand, moist, very stiff.	M					
					2.00m SPT N=31	54.8	2.0		SILT - high plasticity fines, light grey mottled orange, moist, very stiff.	M				2.00: SPT Recovery: 0.45 m	
					2.45m	54.3	2.5			M				3.00: SPT Recovery: 0.45 m	
					3.00m SPT N=22	53.8	3.0		SILT - sandy clayey SILT, high plasticity fines, light grey slightly mottled orange, fine to coarse sand, moist, very stiff.	M					
					3.45m										














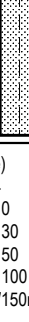


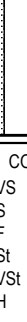
DRILLING				SAMPLES & FIELD TESTS				DENSITY (N-value)		CONSISTENCY (Su) {N-value}			
HA	Hand Auger	HQ	HQ Coring	D	Disturbed Sample	SPT	SPT Sample	VL	Very Loose	0 - 4	VS	Very Soft	< 12 kPa {0-2}
AS	Auger	NQ	NQ Coring	ES	Env Soil Sample	U	Undisturbed Tube Sample	L	Loose	4 - 10	S	Soft	12 - 25 {2-4}
WB	Washbore	PQ	PQ Coring	EW	Env Water Sample	W	Water Sample	MD	Medium Dense	10 - 30	F	Firm	25 - 50 {4-8}
RR	Rock Rolling	NMLC	NMLC Coring					D	Dense	30 - 50	St	Stiff	50 - 100 {8-15}
<div>GROUNDWATER SYMBOLS</div> <div>▼ = Water level (static)</div> <div>▽ = Water level (during drilling)</div>				HP	Hand Penetrometer	MOISTURE CONDITION		VD	Very Dense	50 - 100	VSt	Very Stiff	100 - 200 {15-30}
				HV	Hand Vane Shear	D = Dry M = Moist W = Wet		CO	Compact	>50/150mm	H	Hard	> 200 kPa {>30}
				N	SPT blows per 300mm								
				HW	SPT penetration by hammer weight								
				RW	SPT penetration by rod weight								



## SOIL LOG

HOLE NO: BH BV 1

PROJECT : Brisbane Valley Grade Separation JOB NO : QB10200.4 PAGE : 2 OF 4  
POSITION : E: 470439, N: 6949653 (56 MGA94) SURFACE ELEVATION : 56.8 (AHD) LOCATION : Brisbane Valley Hwy  
RIG TYPE : Hydrapower Scout CONTRACTOR : GeoDrill - T Partleton DIP / AZIMUTH : 90°  
DATE DRILLED : 11/5/11 to 11/5/11 LOGGED BY : LN CHECKED BY : VP STANDARD : AS1736

DRILLING & WATER DETAIL		LAB DATA				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				COMMENTS Field Test Data & Other Observations
		Moisture Content	Dry Density	% Fines	Atterberg Limits							S / L	F / MD	St / D	Vs1 / Vd	
Groundwater					4.00m SPT N=57	52.8	4.0		SILT - sandy clayey SILT, high plasticity fines, light grey slightly mottled orange, fine to coarse sand, moist, very stiff. (continued)	M					4.00: SPT Recovery: 0.45 m	
				4.45m	52.3	4.5			SILT - sandy SILT, high plasticity fines, light orange brown streaked grey, fine to coarse sand, moist, hard.	M						
				5.00m SPT N=47	51.8	5.0			SILT - sandy SILT, high plasticity fines, light grey with orange layering, fine to medium sand, moist, hard.	M					5.00: SPT Recovery: 0.45 m	
				5.45m	51.3	5.5			SILT - high plasticity fines, light orange grey, trace of fine sand, moist, hard.	M						
				6.00m SPT N=40	50.8	6.0						M				
				6.45m	50.3	6.5										
			7.00m			7.00m										

DRILLING				SAMPLES & FIELD TESTS				DENSITY (N-value)			CONSISTENCY (Su) (N-value)		
HA	Hand Auger	HQ	HQ Coring	D	Disturbed Sample	SPT	SPT Sample	VL	Very Loose	0 - 4	VS	Very Soft	< 12 kPa {0-2}
AS	Auger	NQ	NQ Coring	ES	Env Soil Sample	U	Undisturbed Tube Sample	L	Loose	4 - 10	S	Soft	12 - 25 {2-4}
WB	Washbore	PQ	PQ Coring	EW	Env Water Sample	W	Water Sample	MD	Medium Dense	10 - 30	F	Firm	25 - 50 {4-8}
RR	Rock Rolling	NMLC	NMLC Coring					D	Dense	30 - 50	St	Stiff	50 - 100 {8-15}
								VD	Very Dense	50 - 100	VSt	Very Stiff	100 - 200 {15-30}
								CO	Compact	>50/150mm	H	Hard	> 200 kPa {>30}
GROUNDWATER SYMBOLS				MOISTURE CONDITION									
▼ = Water level (static)				D = Dry M = Moist W = Wet									
▽ = Water level (during drilling)													
				HP Hand Penetrometer									
				HV Hand Vane Shear									
				(P: Peak Su R: Residual Su)									
				N SPT blows per 300mm									
				HW SPT penetration by hammer weight									
				RW SPT penetration by rod weight									





## SOIL LOG

HOLE NO: BH BV 1

PROJECT : Brisbane Valley Grade Separation JOB NO : QB10200.4 PAGE : 4 OF 4  
POSITION : E: 470439, N: 6949653 (56 MGA94) SURFACE ELEVATION : 56.8 (AHD) LOCATION : Brisbane Valley Hwy  
RIG TYPE : Hydrapower Scout CONTRACTOR : GeoDrill - T Partleton DIP / AZIMUTH : 90°  
DATE DRILLED : 11/5/11 to 11/5/11 LOGGED BY : LN CHECKED BY : VP STANDARD : AS1736

DRILLING & WATER DETAIL	LAB DATA				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				COMMENTS Field Test Data & Other Observations
	Moisture Content	Dry Density	% Fines	Atterberg Limits							S / L	F / MD	SI / D	VS / VD	
						45.8	11.0		Terminated @ 10.5 m. No water encountered.						
						45.3	11.5								
						44.8	12.0								
						44.3	12.5								
						43.8	13.0								
						43.3	13.5								

DRILLING				SAMPLES & FIELD TESTS				DENSITY (N-value)			CONSISTENCY (Su) {N-value}			
HA	Hand Auger	HQ	HQ Coring	D	Disturbed Sample	SPT	SPT Sample	VL	Very Loose	0 - 4	VS	Very Soft	< 12 kPa {0-2}	
AS	Auger	NQ	NQ Coring	ES	Env Soil Sample	U	Undisturbed Tube Sample	L	Loose	4 - 10	S	Soft	12 - 25 {2-4}	
WB	Washbore	PQ	PQ Coring	EW	Env Water Sample	W	Water Sample	MD	Medium Dense	10 - 30	F	Firm	25 - 50 {4-8}	
RR	Rock Rolling	NMLC	NMLC Coring					D	Dense	30 - 50	St	Stiff	50 - 100 {8-15}	
				HP	Hand Penetrometer		MOISTURE CONDITION	VD	Very Dense	50 - 100	VSt	Very Stiff	100 - 200 {15-30}	
				HV	Hand Vane Shear	D = Dry	M = Moist	W = Wet	CO	Compact	>50/150mm	H	Hard	> 200 kPa {>30}
				(P: Peak Su R: Residual Su)										
				N	SPT blows per 300mm									
				HW	SPT penetration by hammer weight									
				RW	SPT penetration by rod weight									