

Engineering Log - Piezometer

 Client: **TRUenergy**

 Date started: **3.3.2010**

Principal:

 Date completed: **3.3.2010**

 Project: **Geotechnical, Contamination & Groundwater Invest.**

 Logged by: **DJD**

 Borehole Location: **Zone 3 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 297545.01	slope: -90°	R.L. Surface: 3.98
hole diameter: 150	Northing: 6176690.48	bearing:	datum:

drilling information					material substance						
method	penetration	support	notes samples, tests, etc	well details	depth metres	graphic log	classification symbol	material	moisture condition	consistency/density index	structure and additional observations
HOLLOW FLIGHT	1 2 3	N	8.35am - 25/06/10		1			FILL; Gravelly SAND: Fine to coarse grained, black, fine to coarse grained sub-angular gravel (coal and shale). FILL; SILT: Low to medium plasticity, pale grey/grey, with a trace of fine grained sand. ...Fill behaving as liquid due to moisture at 0.3m. ...Clayey SILT at 1.6m to 2.4m.	M	MD S/F	FILL/COALWASH FILL/ASH No odour
					2		CL	CLAY: Medium plasticity, brown/grey, with a trace of fine grained sand and silt.	Wp	F/St	ALLUVIAL No odour
					3		CL	CLAY: Medium plasticity, orange/brown, with some fine to medium grained sand and silt.	>Wp		RESIDUAL No odour
					4		CL	CLAY: Medium plasticity, brown/pale yellow, with a trace of silt.	>Wp		XW SANDSTONE No odour
					5		CL	CLAY: Medium plasticity, grey/pale green with orange/yellow patches, with a trace of fine to medium grained sand and silt.	Wp		XW/HW SANDSTONE No odour
					6			Borehole terminated at 5.8m			MW 03 Terminated at 5.8m on highly weathered sandstone
					7						
					8						

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4 no resistance ranging to refusal water 10/1/98 water level on date shown water inflow water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter B bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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Engineering Log - Piezometer

 Client: **TRUenergy**

 Date started: **3.3.2010**

Principal:

 Date completed: **3.3.2010**

 Project: **Geotechnical, Contamination & Groundwater Invest.**

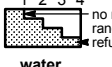



 Logged by: **DJD**

 Borehole Location: **Zone 3 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 297590.91	slope: -90°	R.L. Surface: 3.33
hole diameter: 150	Northing: 6176299.76	bearing:	datum:

drilling information				material substance			
method	penetration	support	notes samples, tests, etc	well details	depth metres	material	structure and additional observations
1 2 3				RL		soil type: plasticity or particle characteristics, colour, secondary and minor components.	
HOLLOW FLIGHT		N			3	FILL; Gravelly SAND: Fine to coarse grained, black, fine to coarse grained, sub-angular coal and shale gravel. FILL; Clayey SILT: Low to medium plasticity, pale grey to grey. ...Fill behaving as liquid at 0.25m.	FILL - COALWASH No odour FILL-ASH No odour
		9.52am - 25/06/10			1		
					2		
					2		
					1	CLAY: Medium plasticity, dark grey/brown, with some silt, with a trace of fine to medium grained sand.	ALLUVIAL/ESTUARINE? No odour
					3	CLAY: Medium plasticity, grey/orange/brown, with some silt, with a trace of fine to medium grained sand.	ALLUVIAL No odour
					0	CLAY: Medium to high plasticity, dark grey, with some silt, with some shell fragments (bivalves).	ESTUARINE No odour
					4		
					4	CLAY: Medium to high plasticity, dark grey, with some silt, with some shell fragments (bivalves).	
					5		
					6		
					6	Borehole terminated at 6.2m	
					7		
					8		

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4  no resistance ranging to refusal water  10/1/98 water level on date shown  water inflow  water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet W _p plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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 Form GEO 5.10 Issue 3 Rev.0
 PIEZOMETER ENVIWOLL00250AB - LOGS.GPJ COFFEY.GDT 20.7.10

Engineering Log - Piezometer

 Client: **TRUenergy**

 Date started: **5.3.2010**

Principal:

 Date completed: **5.3.2010**

 Project: **Geotechnical, Contamination & Groundwater Invest.**

 Logged by: **DJD**

 Borehole Location: **Zone 2 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 298381.41	slope: -90°	R.L. Surface: 4.70
hole diameter: 100	Northing: 6176516.39	bearing:	datum:

drilling information				material substance						
method	penetration	support	notes, samples, tests, etc	well details	depth metres	material	structure and additional observations			
1 2 3				RL		soil type: plasticity or particle characteristics, colour, secondary and minor components.				
ADT		N			0	FILL; Silty SAND: Fine to coarse grained, dark grey/grey.	M MD	FILL/TOPSOIL No odour		
					1	FILL; Clayey SILT: Low plasticity, pale grey/grey, with a trace of fine to medium grained sand.	D/M Wp	F/ST FILL/ASH No odour		
					2	FILL; CLAY: Low to medium plasticity, pale brown/white/pale yellow mottled, with a trace of fine to medium grained sub-angular to sub-rounded gravel and silt.	St/VSt	FILL No odour FILL/ALLUVIAL? No odour		
					3	FILL; CLAY: Medium to high plasticity, red/brown with pale orange mottling, with a trace of fine to medium grained, sub-rounded gravel, sub-rounded sandstone gravel and silt. (Hard to distinguish as residual or fill duw to mixed up cuttings.				
					4	CLAY: Medium plasticity, pale brown/pale yellow mottled, with some fine to medium grained sand, with a trace of fine to medium grained sub-rounded sandstone gravel and silt.	CL	VSt	ALLUVIAL No odour	
			2.06rpm - 24/06/10		5	CLAY: Medium plasticity, pale brown/grey, with a trace of fine to medium grained sand and silt.	CL	>Wp	S	ALLUVIAL/ESTUARINE? No odour
					6	CLAY: Medium plasticity, dark grey, with a trace of rootlets, shell fragments and silt.	CL			ESTUARINE Brackish/organic odour
					7	CLAY: Medium plasticity, brown, with some medium to coarse grained sand, fine grained sub-angular gravel and shell fragments, with a trace of silt.	CL	Wp	F	
					8	CLAY: Low to medium plasticity, dark grey, with some fine to medium grained sand, with a trace of silt.	CL	>Wp	S/F	

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4 no resistance ranging to refusal water 10/1/98 water level on date shown water inflow water outflow	notes, samples, tests, etc U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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PIEZOMETER ENVIWOLL00250AB - LOGS.GPJ COFFEY.GDT 20.7.10

Engineering Log - Piezometer

Client: **TRUenergy**

Date started: **11.6.2010**

Principal:

Date completed: **11.6.2010**

Project: **Geotechnical, Contamination & Groundwater Invest.**

Logged by: **DJD**

Borehole Location: **Zone 2 (a) Tallawarra Lands, Yallah, NSW**

Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 298481.42	slope: -90°	R.L. Surface: 10.92
hole diameter: 50	Northing: 6176739.28	bearing:	datum:

drilling information					material substance							
method	penetration	support	water	notes samples, tests, etc	well details	depth metres	graphic log	classification symbol	material	moisture condition	consistency/density index	structure and additional observations
PUSH TUBE	1 2 3	N				10			FILL; Gravelly SAND: Fine to coarse grained, dark grey/black, fine to medium grained, sub-angular to sub-rounded gravel. FILL; Clayey SILT: Low plasticity, pale grey.	D/M	L/MD	FILL - COALWASH No odour
						1			FILL; SAND: Fine grained, grey, with some silt. FILL; SILT: Low plasticity, pale grey, with a trace of clay.	M	VS/Fb	FILL - ASH No odour
						2			FILL; Clayey SILT: Low plasticity, grey. FILL; SILT: Low plasticity, pale grey, with a trace of clay. FILL; Clayey SILT: Low plasticity, grey.	D/M	St/Fb	
						3			FILL; SAND: Fine grained, grey/dark grey, with some silt. FILL; Clayey SILT: Low plasticity, grey.	D	MD	
						4			FILL; SAND: Fine grained, grey/dark grey, with some silt. FILL; Clayey SILT: Low plasticity, grey, with a trace of fine grained sand.	M	VL/L	
						5			...Liquification of soil from 4.4m to 4.5m. FILL; SAND: Fine grained, dark grey, with some silt.	D/M	L/MD	
						6			FILL; Sandy SILT: Low plasticity, grey, fine grained sand, with a trace of clay.	M	VSt	
						7			FILL; SAND: Fine to medium grained, grey, with some silt. FILL; Sandy SILT: Low plasticity, grey/dark grey, fine of medium grained sand. FILL; SAND: Fine to medium grained, grey, with some silt. FILL; Sandy SILT: Low plasticity, grey/dark grey, fine grained sand.	W	L/MD	
						8			Borehole terminated at 7.2m	M/W	St	

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4 no resistance ranging to refusal water ▼ 10/1/98 water level on date shown ▲ water inflow ▼ water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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PIEZOMETER ENVIWOLL00250AB - LOGS.GPJ COFFEY.GDT 20.7.10

Engineering Log - Piezometer

 Client: **TRUenergy**

 Date started: **5.3.2010**

Principal:

 Date completed: **5.3.2010**

 Project: **Geotechnical, Contamination & Groundwater Invest.**

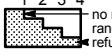



 Logged by: **DJD**

 Borehole Location: **Zone 2 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 298872.57	slope: -90°	R.L. Surface: 8.51
hole diameter: 100	Northing: 6176432.36	bearing:	datum:

drilling information				material substance			
method	penetration 1 2 3	support water	notes samples, tests, etc	well details	depth metres	material	structure and additional observations
ADT		N			8	FILL; CLAY: Low to medium plasticity, dark brown, with some fine to coarse grained sand and fine to coarse grained sub-rounded gravel (coal and shale) and silt.	FILL No odour
					1	Gravelly SAND: Fine to coarse grained, pale brown/yellow, fine to coarse grained sub-rounded to sub-angular sandstone gravel, with a trace of silt.	RESIDUAL No odour
					2	Gravelly SAND: Fine to coarse grained, pale brown/yellow, fine to coarse grained sub-rounded to sub-angular sandstone gravel, with some low to medium plasticity clay.	XW/HW SANDSTONE No odour
					3	SANDSTONE: Fine grained, pale brown/pale yellow.	HW SANDSTONE (BERRY SILTSTONE) No odour
					4	...Becoming pale brown/pale grey at 2.3m.	
					5	...Becoming pale grey/white at 3.85m.	
					6	...Becoming brown/grey at 5.0m.	
					6	Borehole terminated at 6m	

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4  no resistance ranging to refusal water  10/1/98 water level on date shown  water inflow  water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet W _p plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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Borehole No. **MW 08**

Engineering Log - Piezometer

 Sheet 1 of 1
 Office Job No.: **ENVIWOLL00250AB**

 Client: **TRUenergy**

 Date started: **10.3.2010**

Principal:

 Date completed: **10.3.2010**

 Project: **Geotechnical, Contamination & Groundwater Invest.**

 Logged by: **DJD**

 Borehole Location: **Zone 2 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

 drill model & mounting: GEOPROBE TRACK Easting: 298836.96 slope: -90° R.L. Surface: 6.51
 hole diameter: 100 Northing: 6176677.11 bearing: datum:

drilling information					material substance								
method	penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material	moisture condition	consistency/density index	structure and additional observations
ADT	1 2 3	N	11.15am - 24/06/10			6	1			FILL; Clayey SILT: Low to medium plasticity, pale grey/grey. ...With some fine to medium grained sand	D/M	F	FILL/ASH No odour
						5	2			...Becoming Sandy SILT: Low to medium plasticity, pale grey, fine to medium grained sand at 2.5m to 3.5m.			
						3	3			SANDSTONE: Fine grained, brown/orange/grey. Borehole terminated at 3.6m	M		HW SANDSTONE No odour
						4	4						
						2	5						
						0	6						
						-1	7						
						-1	8						

method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4 no resistance ranging to refusal water 10/1/98 water level on date shown water inflow water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet W _p plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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Engineering Log - Piezometer

 Client: **TRUenergy**

 Date started: **5.3.2010**

Principal:

 Date completed: **5.3.2010**

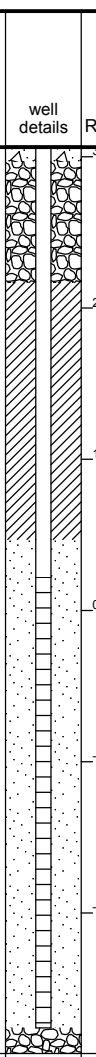
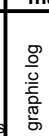







 Project: **Geotechnical, Contamination & Groundwater Invest.**





 Logged by: **DJD**

 Borehole Location: **Zone 2 (a) Tallawarra Lands, Yallah, NSW**

 Checked by: **CCQ/SM**

drill model & mounting: GEOPROBE TRACK	Easting: 298827.33	slope: -90°	R.L. Surface: 3.07
hole diameter: 100	Northing: 6177103.43	bearing:	datum:

drilling information					material substance						
method	penetration	support	notes samples, tests, etc	well details	depth metres	graphic log	classification symbol	material	moisture condition	consistency/density index	structure and additional observations
ADT	1 2 3	N	12.00pm - 24/06/10		0			FILL; Silty SAND: Fine to coarse grained, dark brown/dark grey, with some fine to coarse grained sub-rounded to sub-angular gravel (coal and sandstone).	M	MD	FILL No odour
					1						
					2			FILL; CLAY: Medium plasticity, black/dark grey, with some fine to medium grained sand, with a trace of rootlets and silt.	>Wp	F	FILL/ALLUVIAL No odour
					3		CL	CLAY: Medium plasticity, red-brown/orange, with some fine to coarse grained sand, with a trace of fine to medium grained sub-rounded sandstone gravel and silt.		F/St	ALLUVIAL/ESTUARINE? Brackish/organic odour
					4		CL	CLAY: Medium plasticity, pale grey/pale brown, with a trace of fine to coarse grained pale brown sand and fine to medium grained sub-rounded sandstone gravel and silt.			
					5		CL	CLAY: Medium plasticity, pale grey, with a trace of fine to coarse grained sand and silt.	Wp	F	
					6		CL	CLAY: Medium plasticity, pale grey/pale yellow mottled, with a trace of fine to coarse grained sand and fine to medium grained sub-rounded gravel (possibly jarosite?) and silt.	>Wp	F/St	
					7		SC	Clayey SAND: Fine to coarse grained, pale grey with some pale yellow mottling, low to medium plasticity clay.	W	L/MD	
					8			Borehole terminated at 6m			

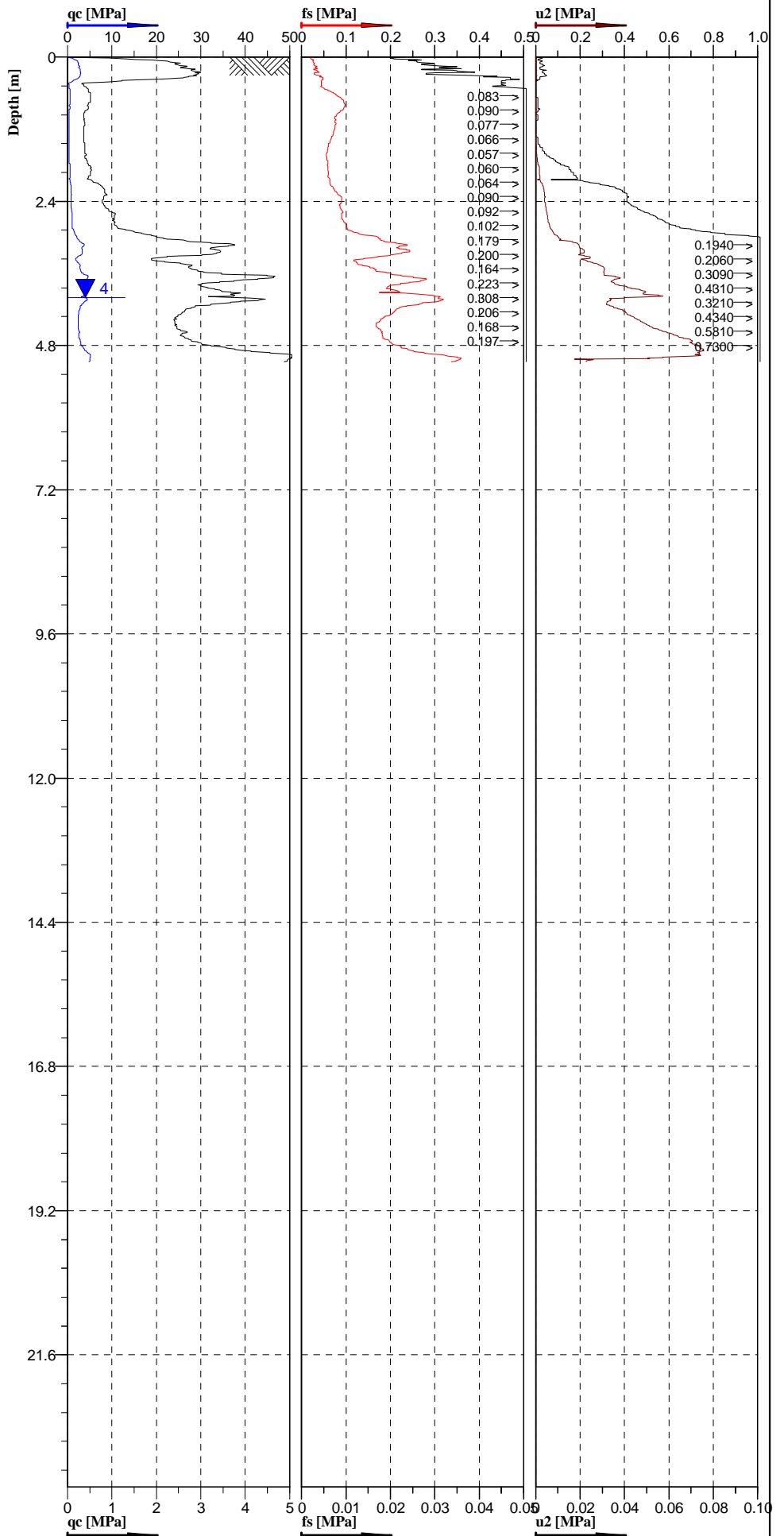
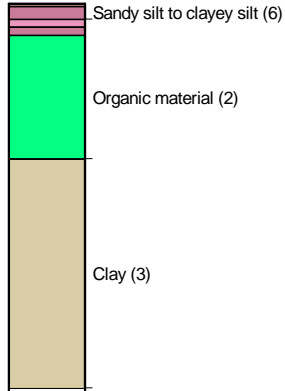
method AS auger screwing* AD auger drilling* RR roller/tricone W washbore CT cable tool DT diatube B blank bit V V bit T TC bit TBX Tubex *bit shown by suffix e.g. ADT	support C casing N nil penetration 1 2 3 4  no resistance ranging to refusal water  10/1/98 water level on date shown  water inflow  water outflow	notes, samples, tests U ₅₀ undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone P pressure meter Bs bulk sample R refusal E environmental sample PID PID measurement WS water sample PZ piezometer ALT air lift test	classification symbols and soil description based on unified classification system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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Appendix E

Piezocone Plots

**Geotechnical, Contamination and Groundwater Investigation,
Tallawarra Lands, Yallah, NSW**

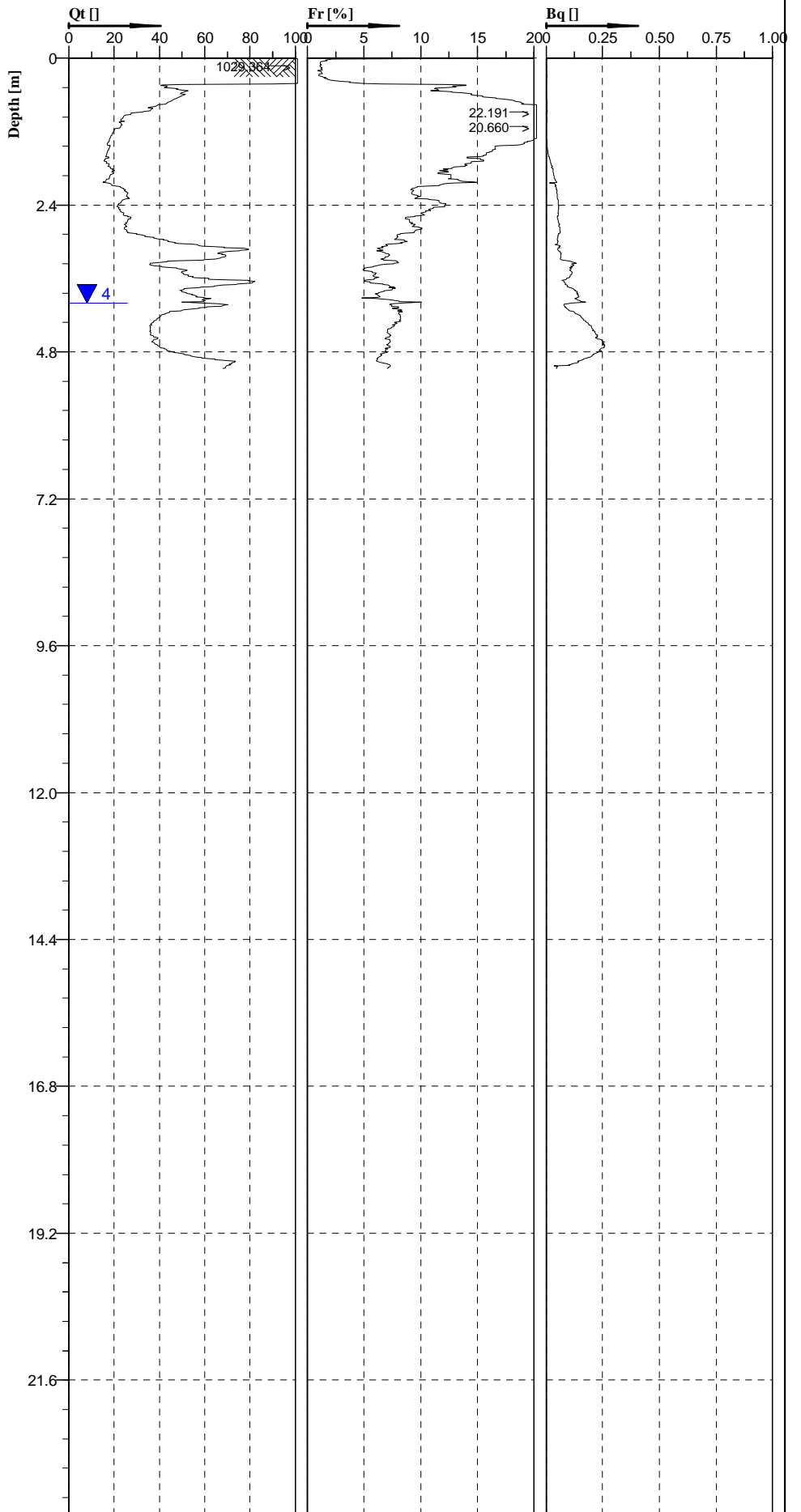
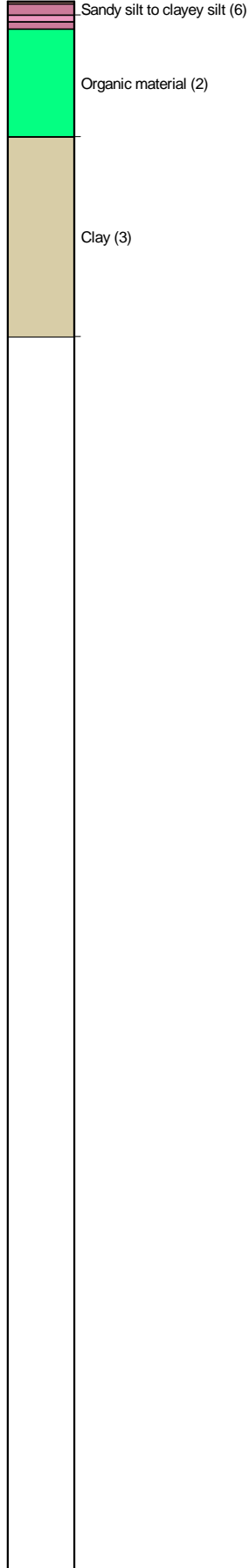
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298456 m, Y: 6177348 m	Ground level: 6.84	Test no: CPT08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 2/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT08
Data provided by Insitu Geotech Services Pty Ltd			File: CPT08.cpd

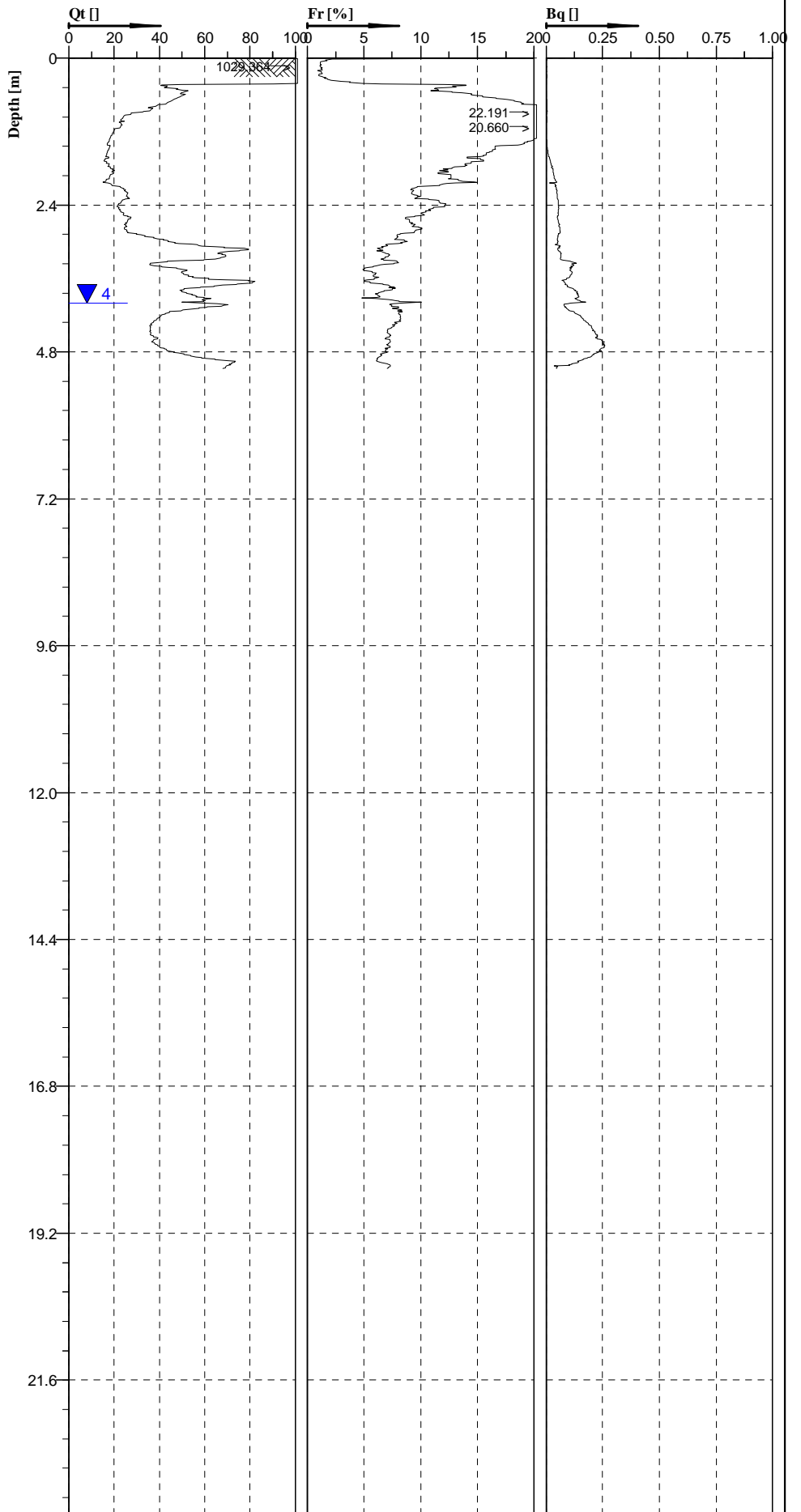
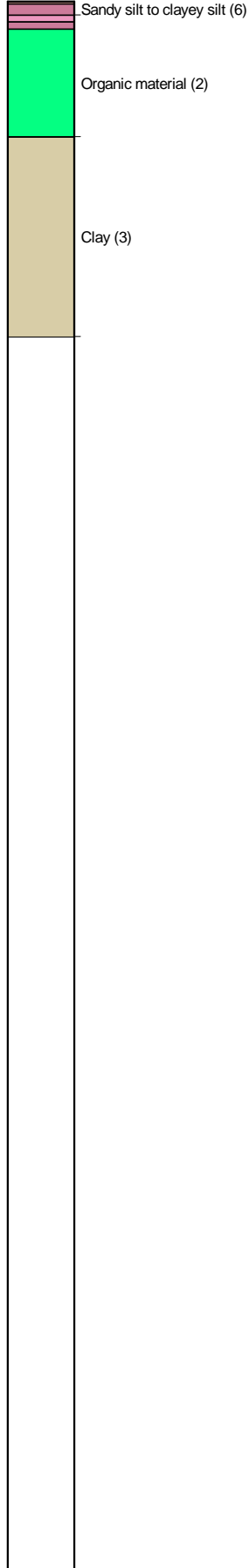
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298456 m, Y: 6177348 m	Ground level: 6.84	Test no: CPT08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 2/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT08
Data provided by Insitu Geotech Services Pty Ltd			File: CPT08.cpd

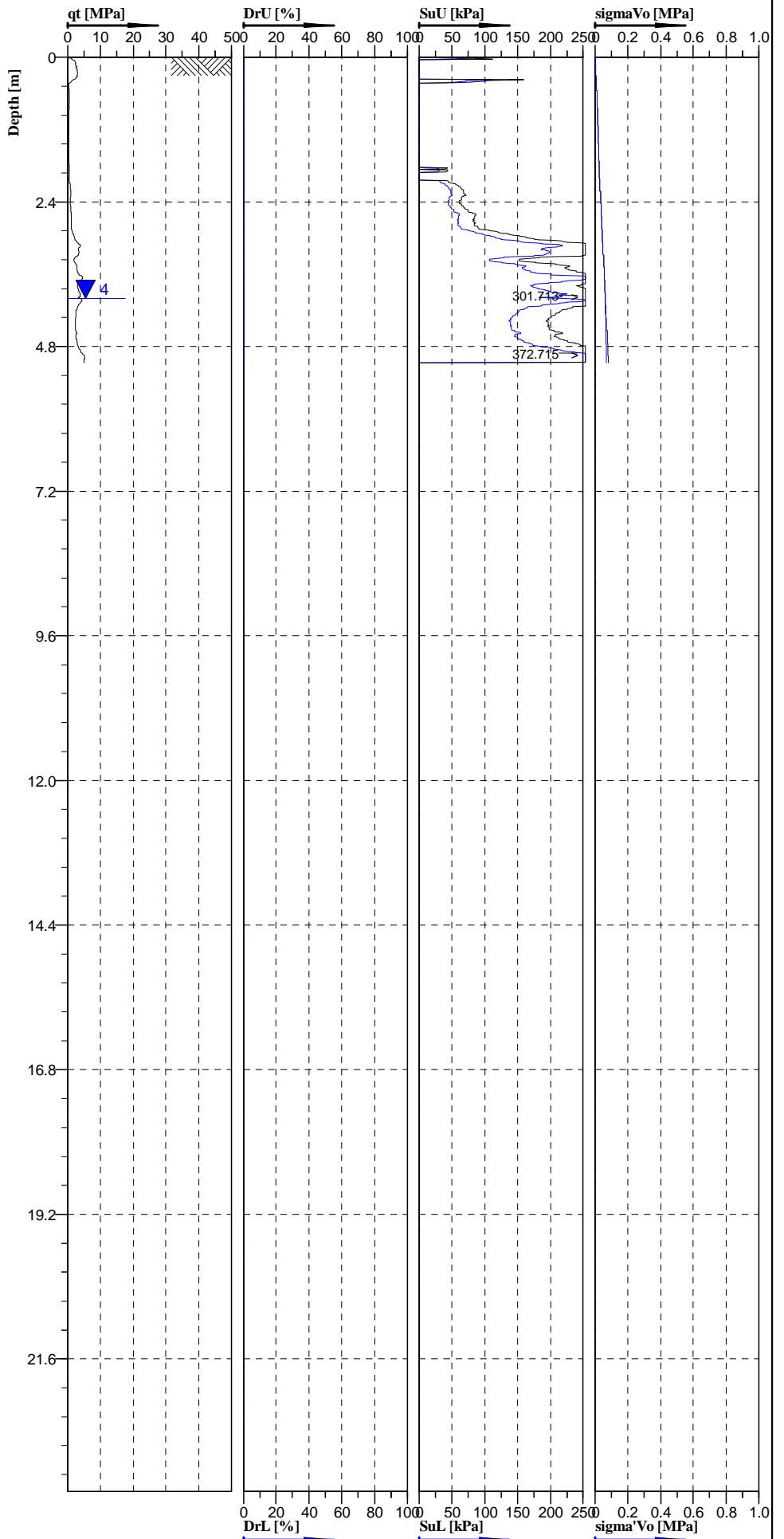
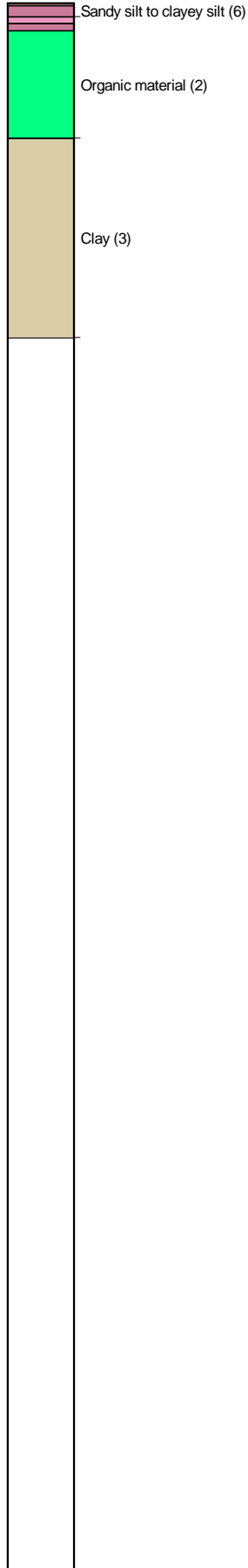
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298456 m, Y: 6177348 m	Ground level: 6.84	Test no: CPT08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 2/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT08
Data provided by Insitu Geotech Services Pty Ltd			File: CPT08.cpd

Classification by
Robertson 1986

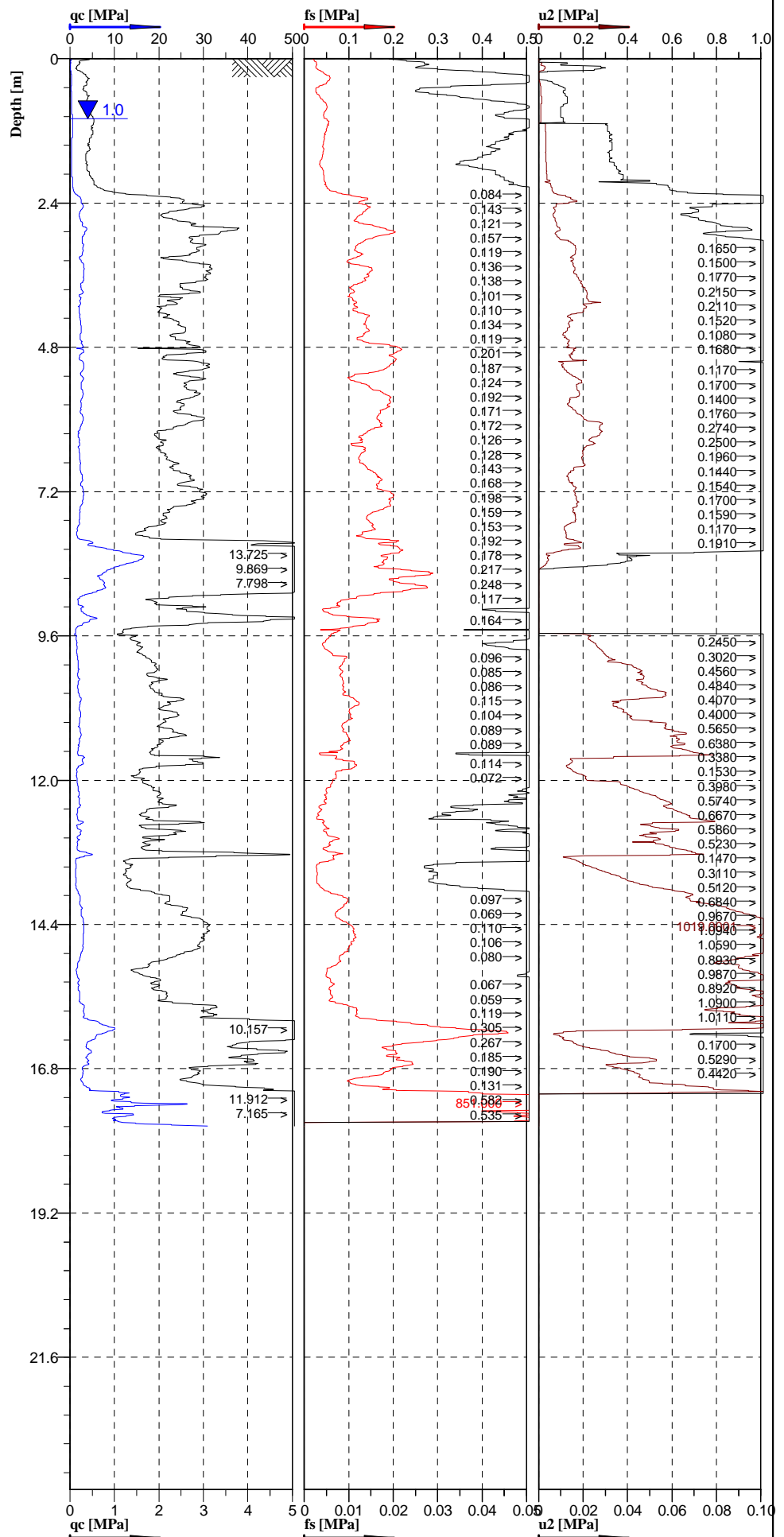


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298456 m, Y: 6177348 m	Ground level: 6.84	Test no: CPT08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 2/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT08
Data provided by Insitu Geotech Services Pty Ltd			File: CPT08.cpd

Classification by
Robertson 1986

-
 Organic material (2)
-
 Organic material (2)
-
 Clay (3)
-
 Silty clay to clay (4)
-
 Silty clay to clay (4)
-
 Clay (3)
-
 Silty sand to sandy silt (7)
-
 Sand to silty sand (8)
-
 Sandy silt to clayey silt (6)
-
 Clay (3)
-
 Sandy silt to clayey silt (6)
-
 Clay (3)
-
 Clayey silt to silty clay (5)
-
 Clay (3)
-
 Silty clay to clay (4)
-
 Clay (3)
-
 Sandy silt to clayey silt (6)
-
 Clay (3)
-
 Clayey silt to silty clay (5)
-
 Clayey silt to silty clay (5)
-
 Sandy silt to clayey silt (6)
-
 Clayey silt to silty clay (5)
-
 Clayey silt to silty clay (5)
-
 Silty clay to clay (4)
-
 Clayey silt to silty clay (5)
-
 Clayey silt to silty clay (5)
-
 Silty clay to clay (4)
-
 Clayey silt to silty clay (5)
-
 Clayey silt to silty clay (5)
-
 Silty clay to clay (4)
-
 Clayey silt to silty clay (5)
-
 Clayey silt to silty clay (5)
-
 Silty clay to clay (4)
-
 Clay (3)
-
 Very stiff fine grained (11)
-
 Silty clay to clay (4)
-
 Clay (3)
-
 Very stiff fine grained (11)

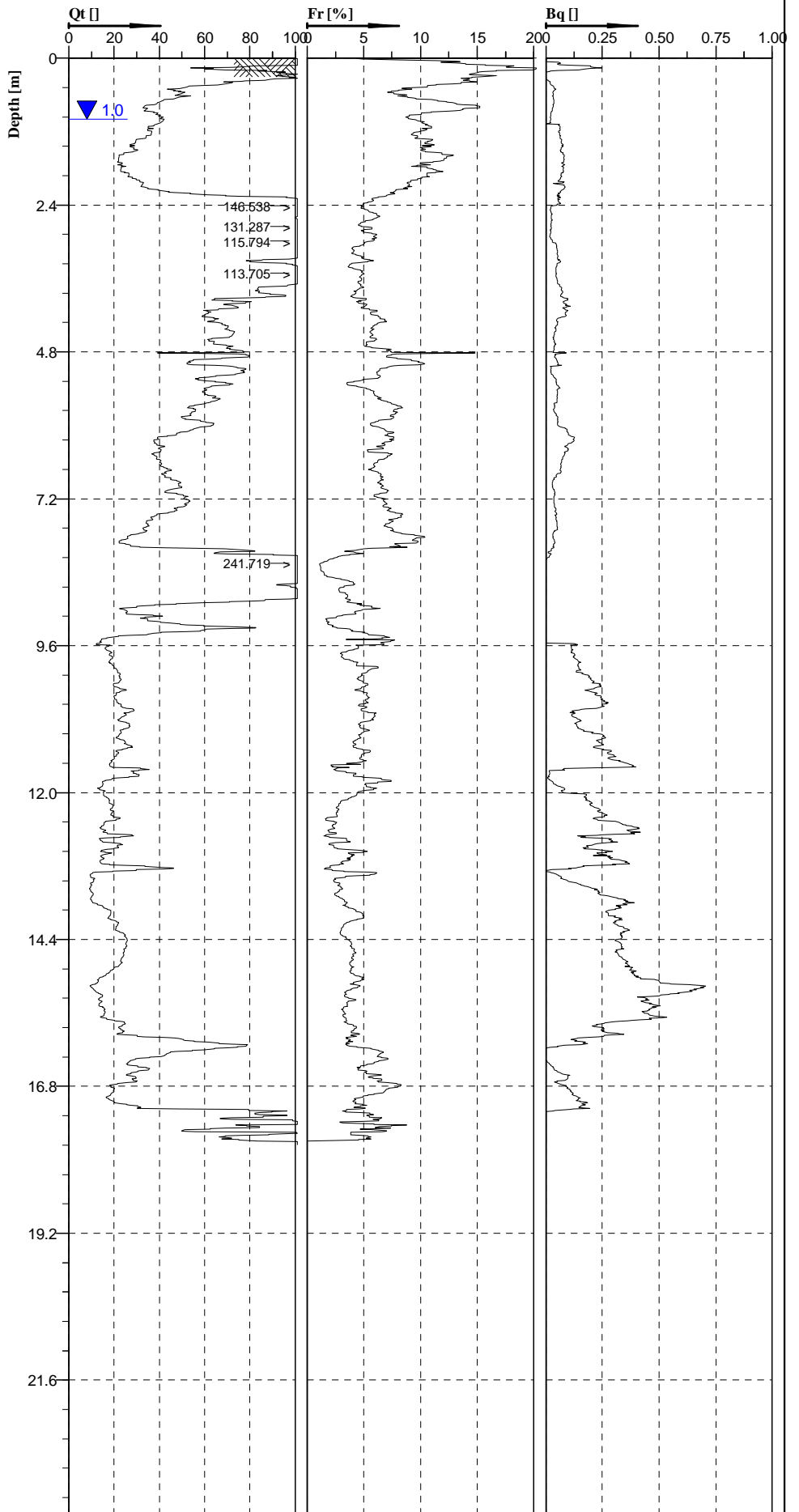
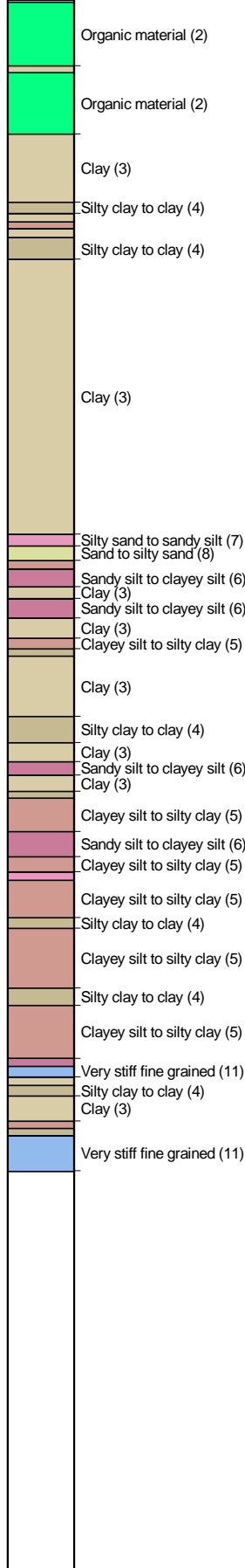


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 298680 m, Y: 6177326 m	Ground level: 3.19	Test no: CPT09
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT09
Data provided by Insitu Geotech Services Pty Ltd			File: CPT09.cpd

Classification by
Robertson 1986

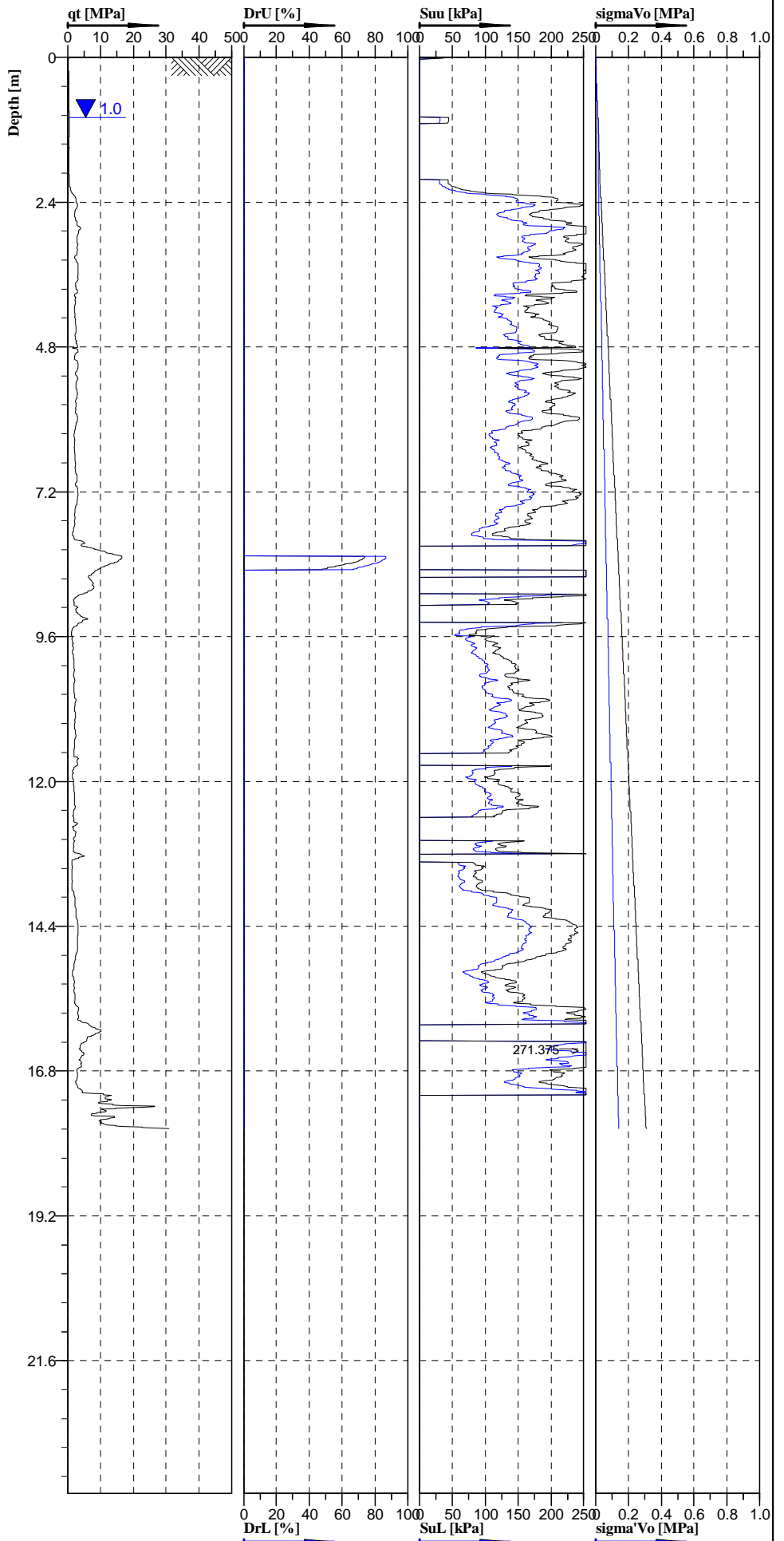


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298680 m, Y: 6177326 m	Ground level: 3.19	Test no: CPT09
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT09
Data provided by Insitu Geotech Services Pty Ltd			File: CPT09.cpd

Classification by
Robertson 1986

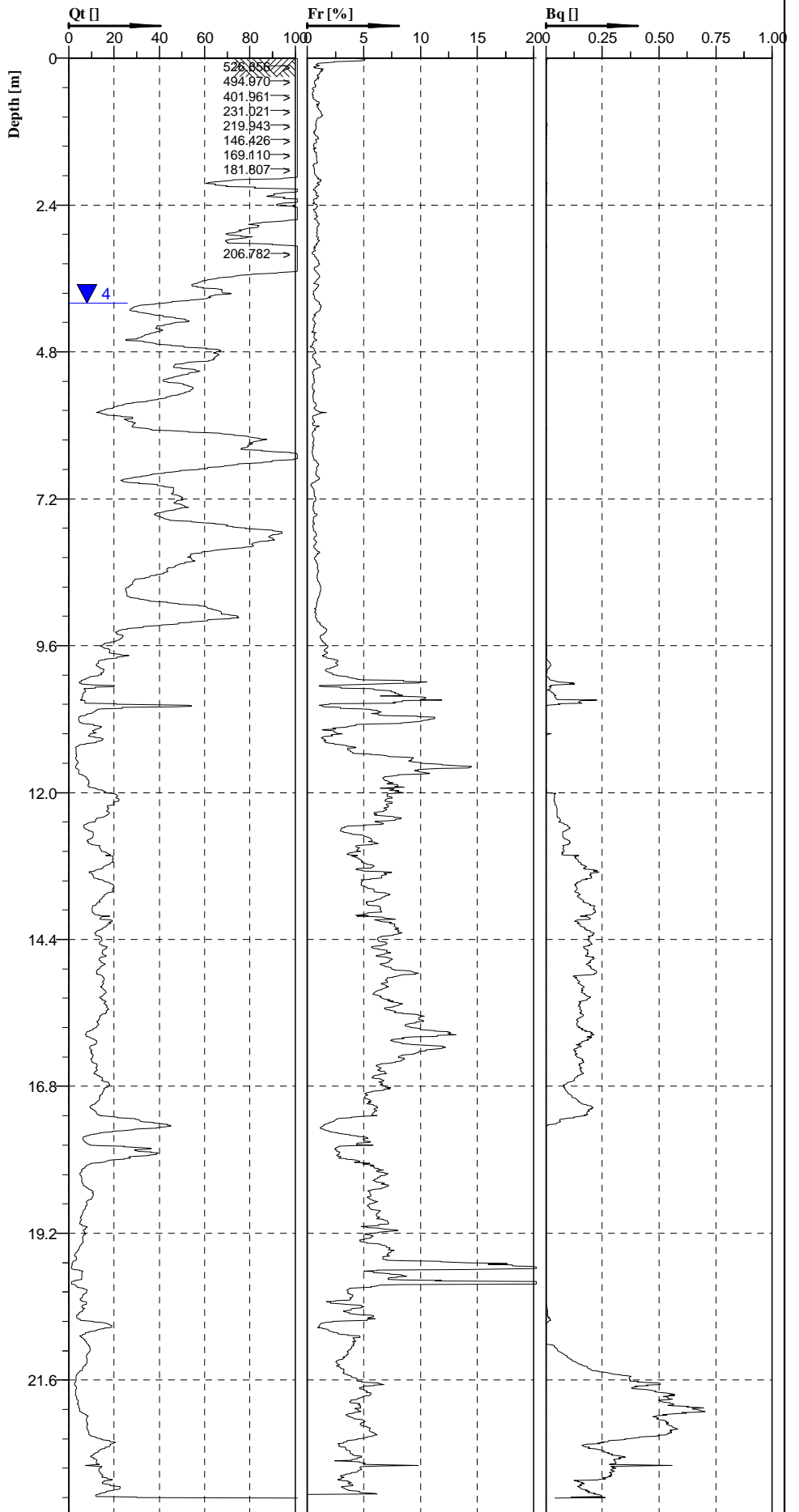
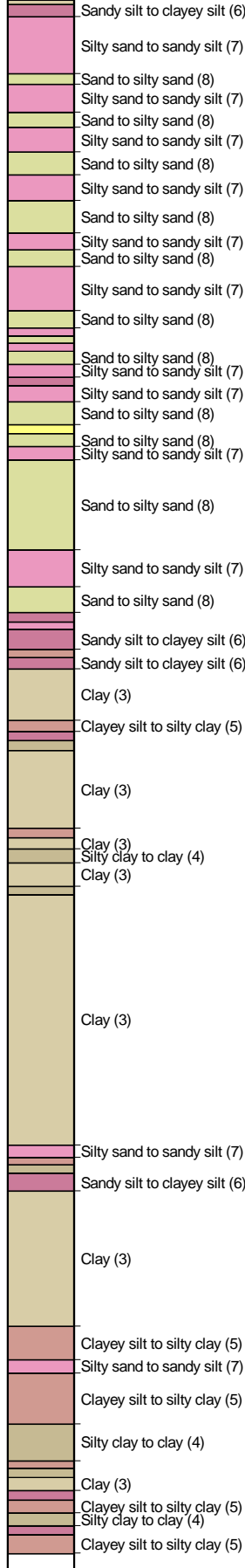
- Organic material (2)
- Organic material (2)
- Clay (3)
- Silty clay to clay (4)
- Silty clay to clay (4)
- Clay (3)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Sandy silt to clayey silt (6)
- Clay (3)
- Sandy silt to clayey silt (6)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Sandy silt to clayey silt (6)
- Clay (3)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Very stiff fine grained (11)
- Silty clay to clay (4)
- Clay (3)
- Very stiff fine grained (11)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298680 m, Y: 6177326 m	Ground level: 3.19	Test no: CPT09
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT09
Data provided by Insitu Geotech Services Pty Ltd			File: CPT09.cpd

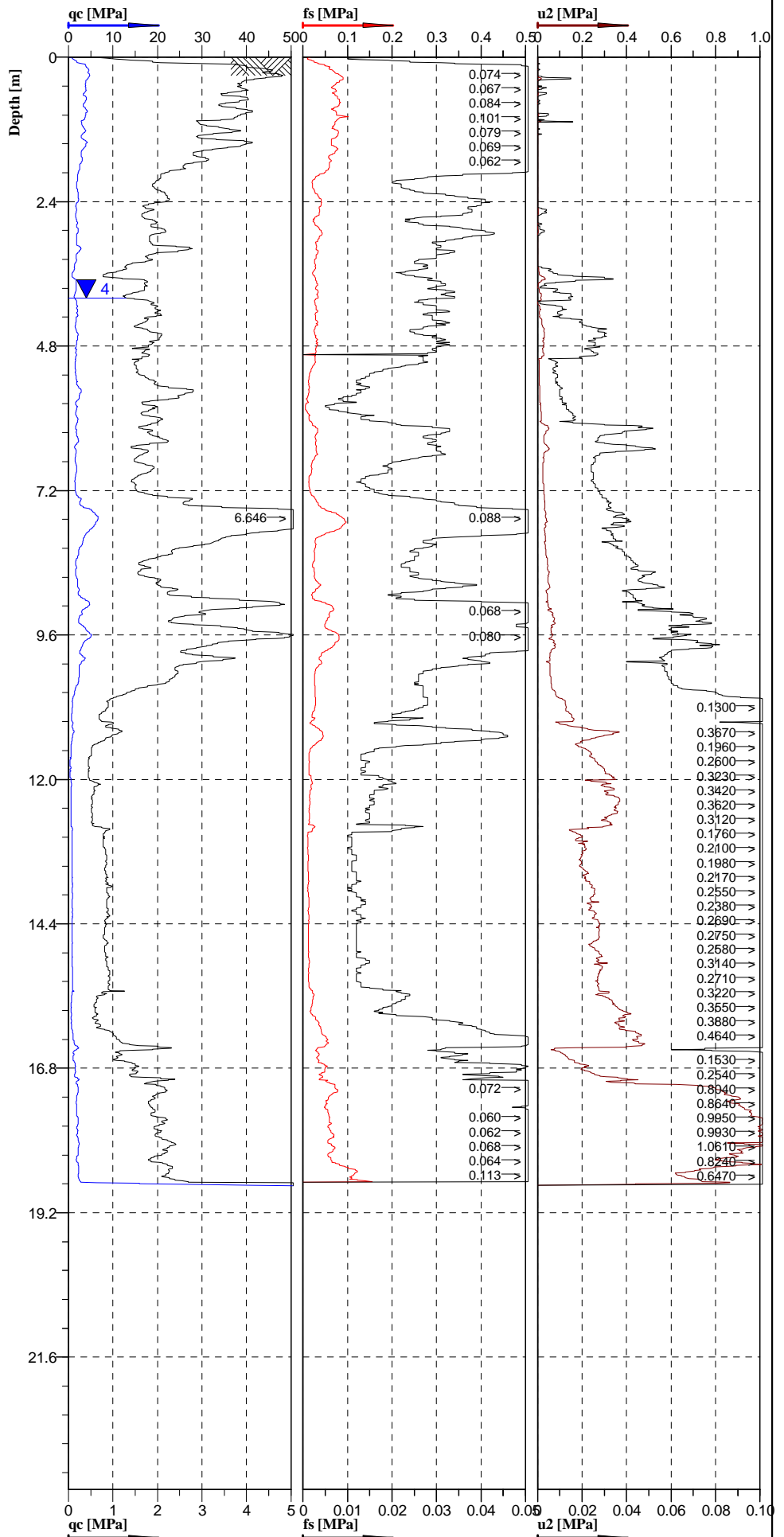
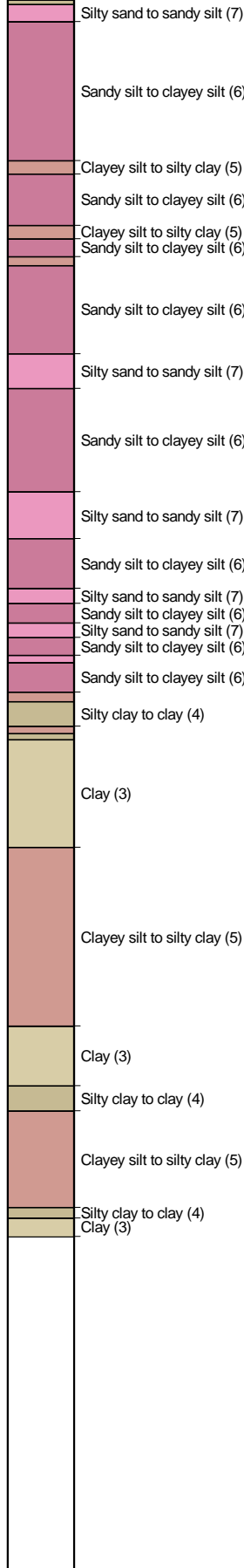
**Classification by
Robertson 1986**



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298388 m, Y: 6177188 m	Ground level: 11.22	Test no: CPT10
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 2/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT10
Data provided by Insitu Geotech Services Pty Ltd			File: CPT10.cpd

Classification by
Robertson 1986

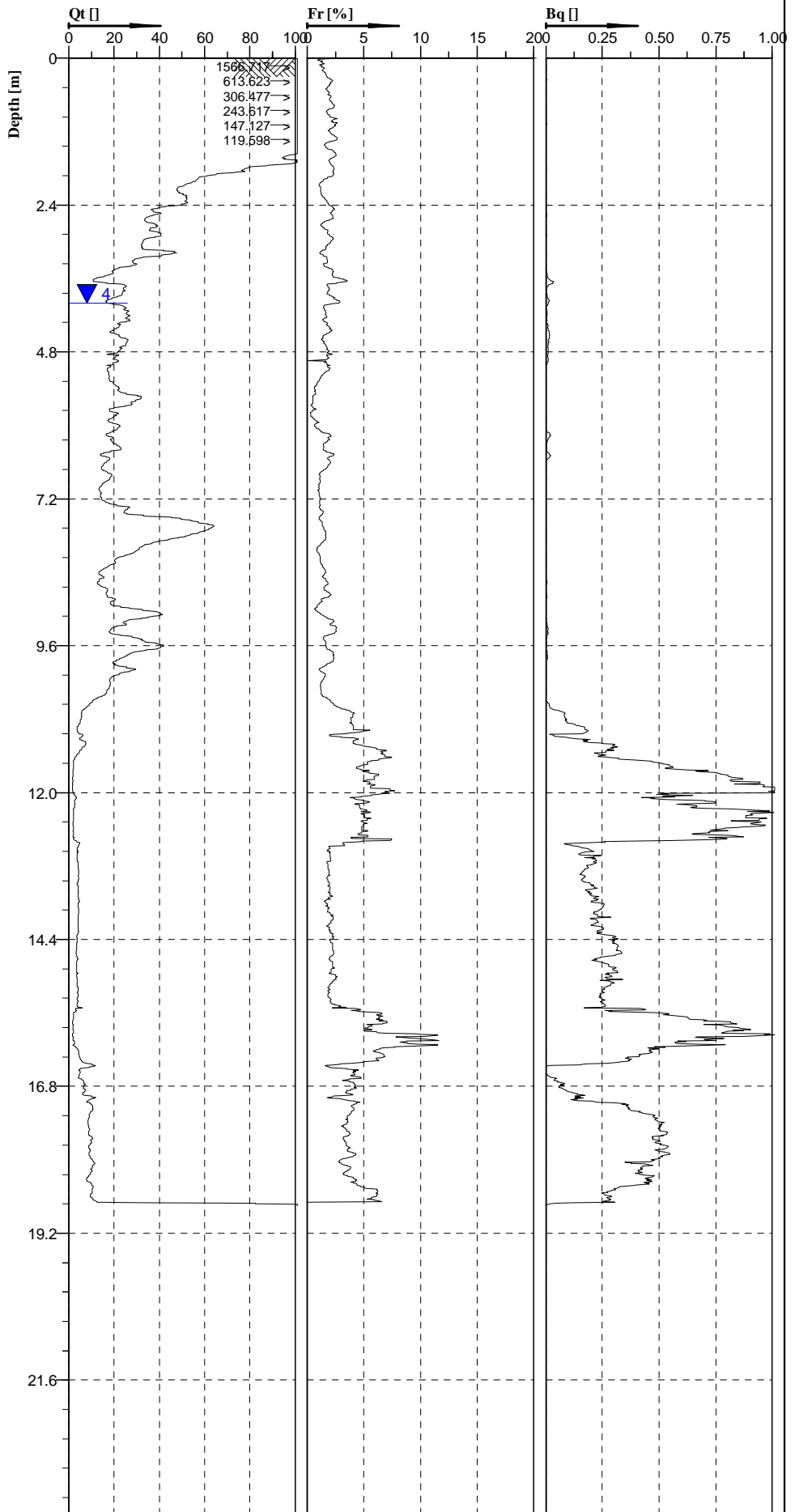
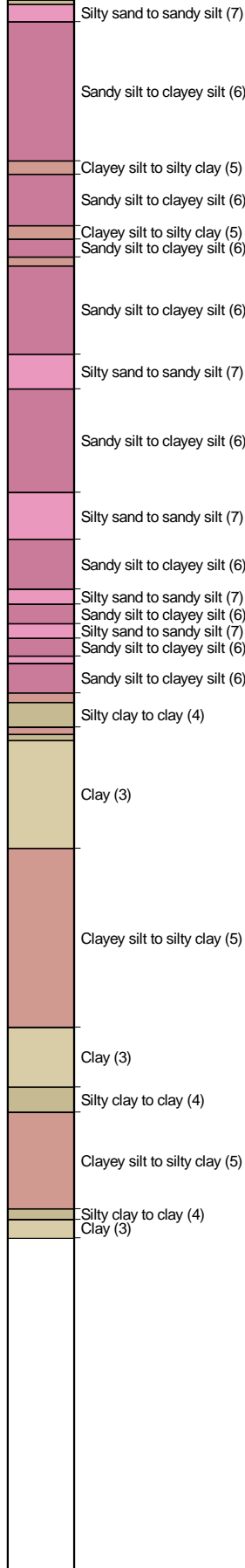


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 298184 m, Y: 6177161 m	Ground level: 10.75	Test no: CPT11
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 4/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT11
Data provided by Insitu Geotech Services Pty Ltd			File: CPT11.cpd

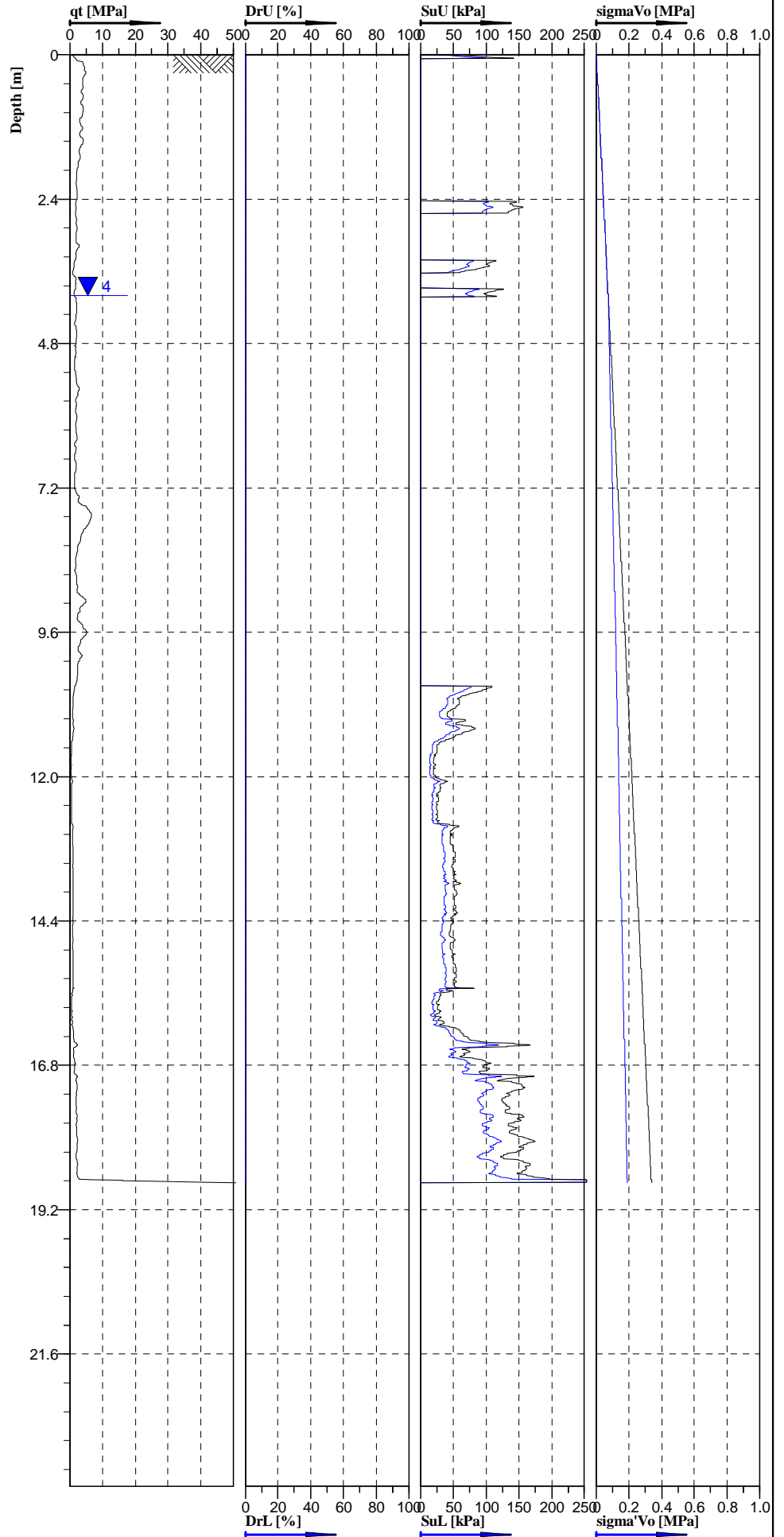
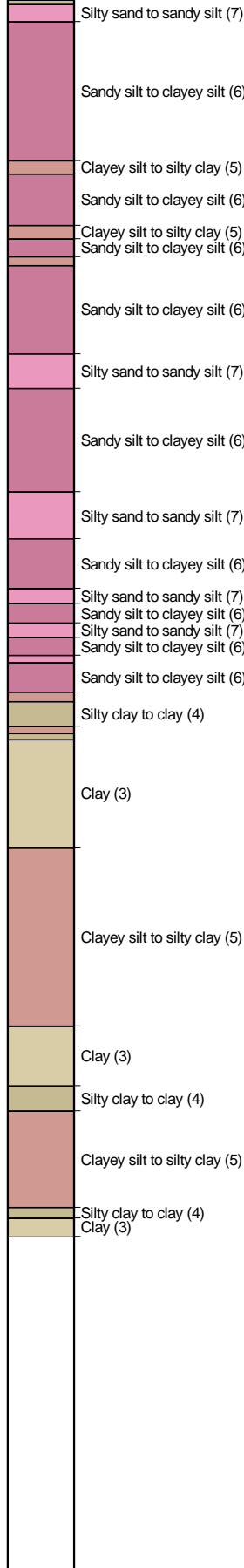
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298184 m, Y: 6177161 m	Ground level: 10.75	Test no: CPT11
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 4/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT11
Data provided by Insitu Geotech Services Pty Ltd			File: CPT11.cpd

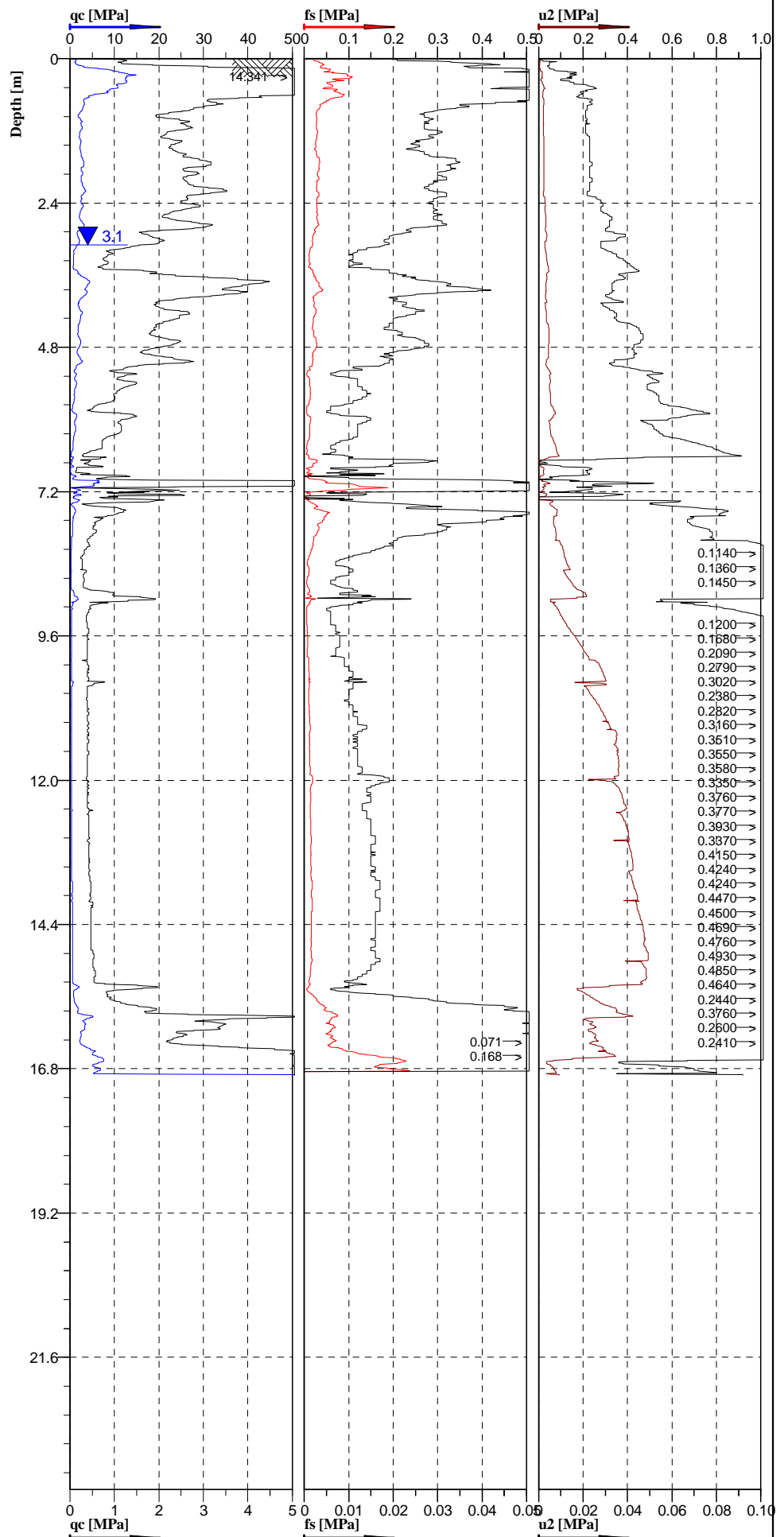
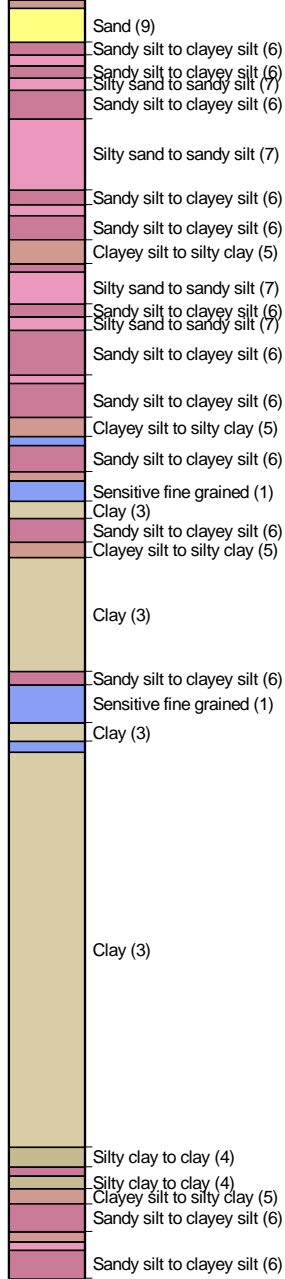
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298184 m, Y: 6177161 m	Ground level: 10.75	Test no: CPT11
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 4/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT11
Data provided by Insitu Geotech Services Pty Ltd			File: CPT11.cpd

Classification by
Robertson 1986

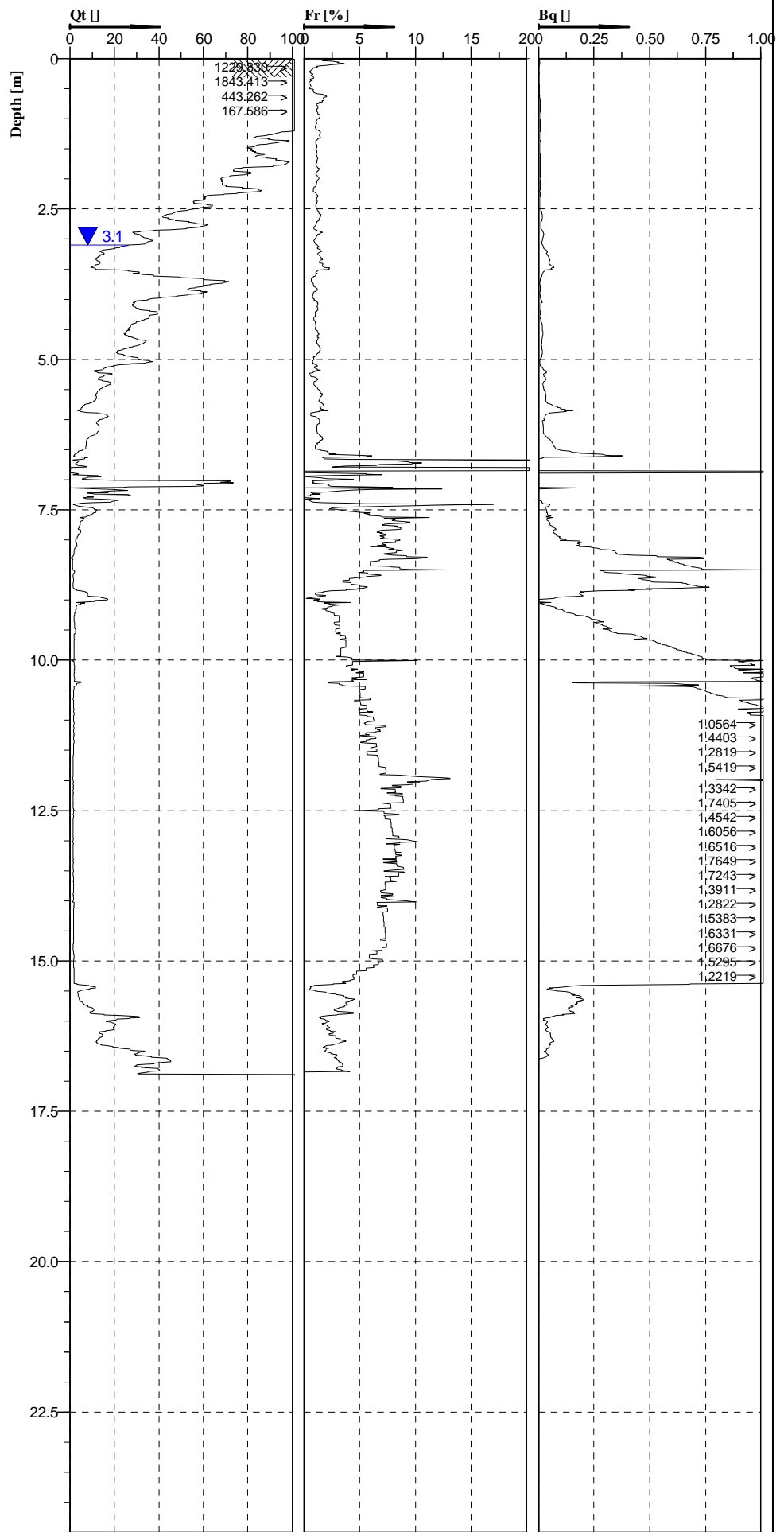
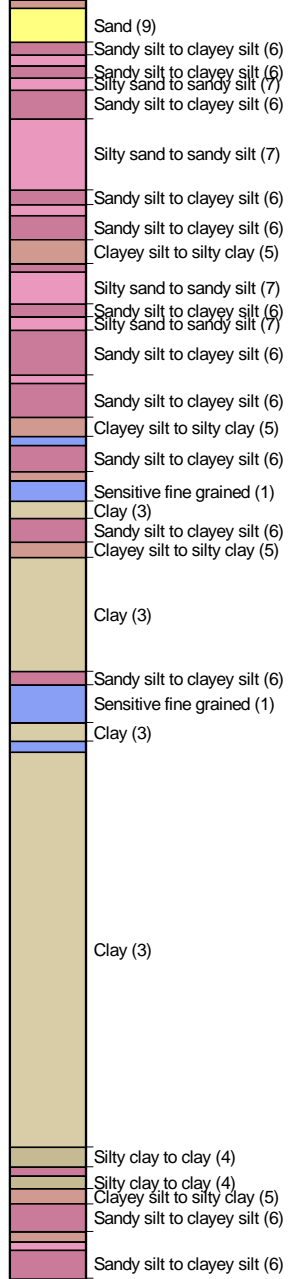


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 298116 m, Y: 6177055 m	Ground level: 7.18	Test no: CPT12
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT12
Data provided by Insitu Geotech Services Pty Ltd			File: CPT12.cpd

Classification by
Robertson 1986

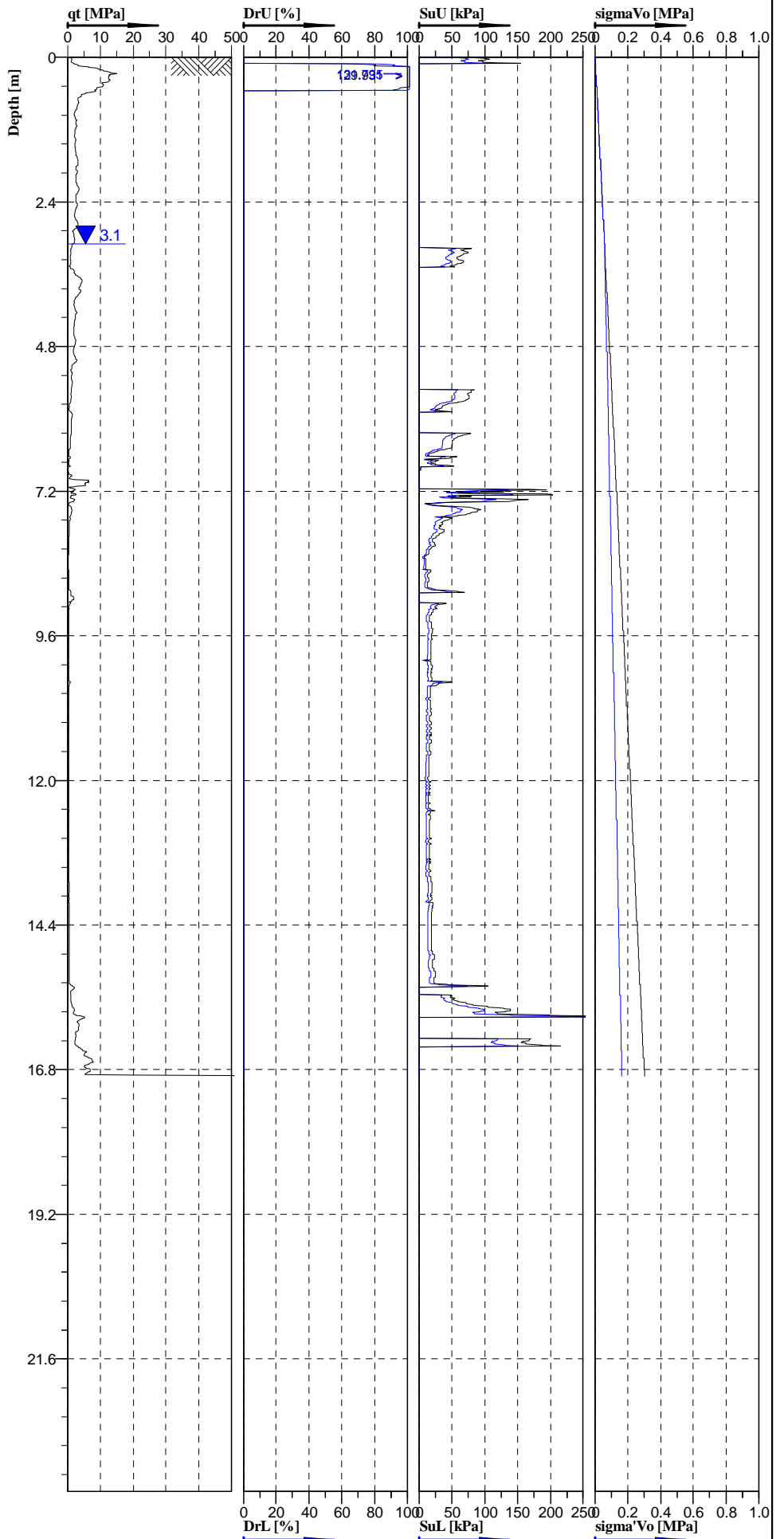


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298116 m, Y: 6177055 m	Ground level: 7.18	Test no: CPT12
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT12
Data provided by Insitu Geotech Services Pty Ltd		File: CPT12.cpd	

Classification by
Robertson 1986

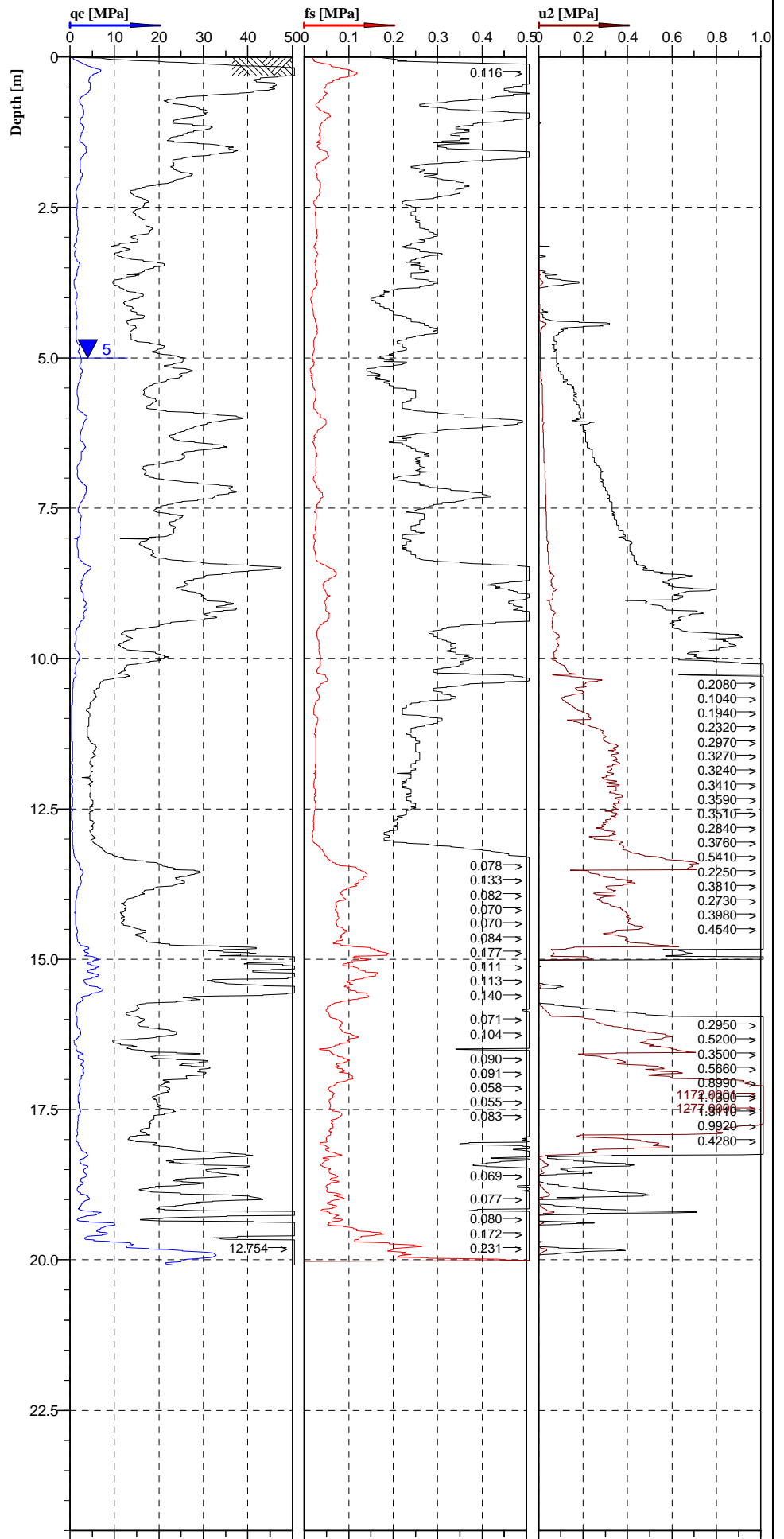
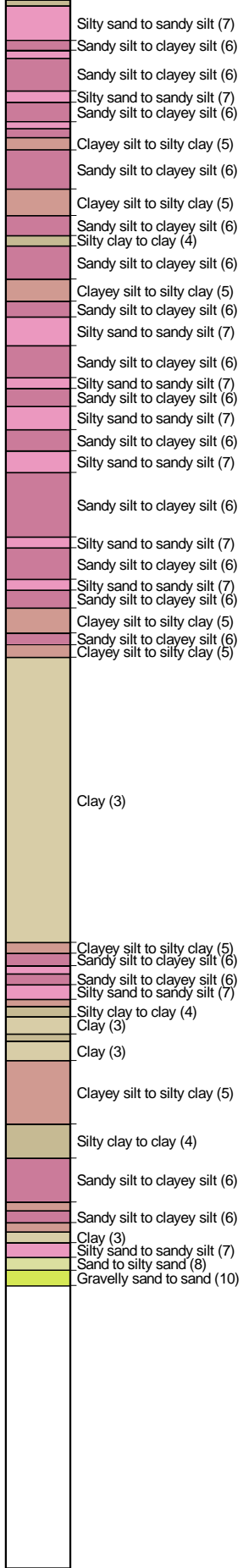
- Sand (9)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sensitive fine grained (1)
- Clay (3)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Clay (3)
- Sandy silt to clayey silt (6)
- Sensitive fine grained (1)
- Clay (3)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298116 m, Y: 6177055 m	Ground level: 7.18	Test no: CPT12
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT12
Data provided by Insitu Geotech Services Pty Ltd			File: CPT12.cpd

Classification by
Robertson 1986

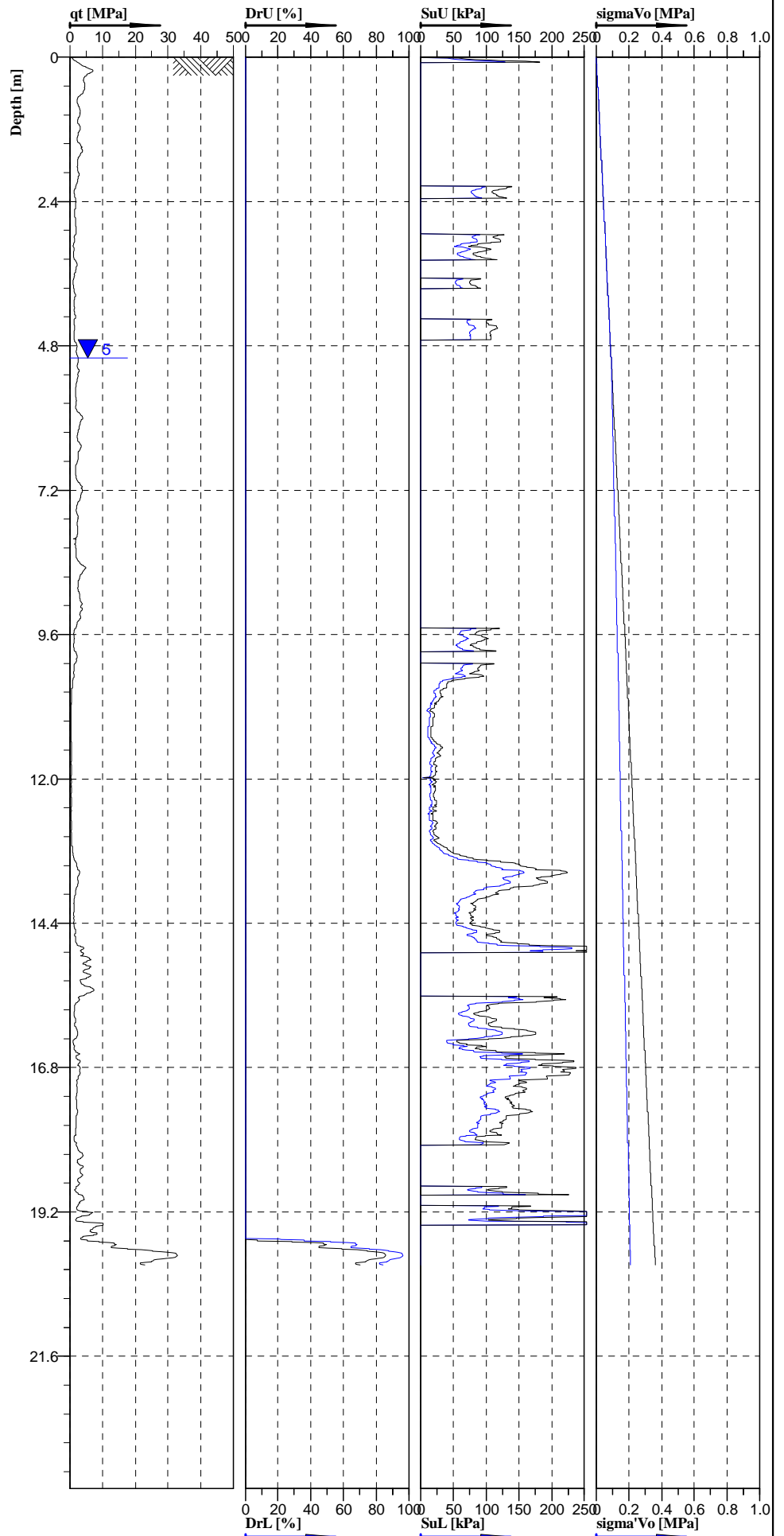
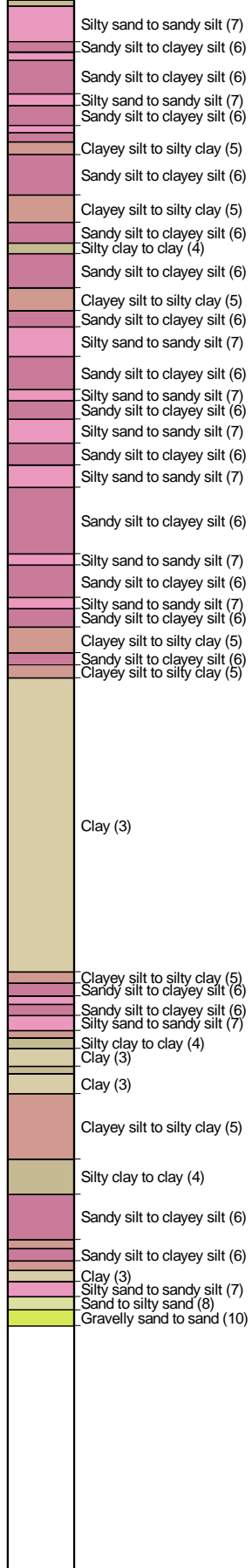


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 298420 m, Y: 6177065 m	Ground level: 0.04	Depth: 0.08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 4/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS	Page: 1/3	Fig: CPT13	
Data provided by Insitu Geotech Services Pty Ltd	File: CPT13.cpd		

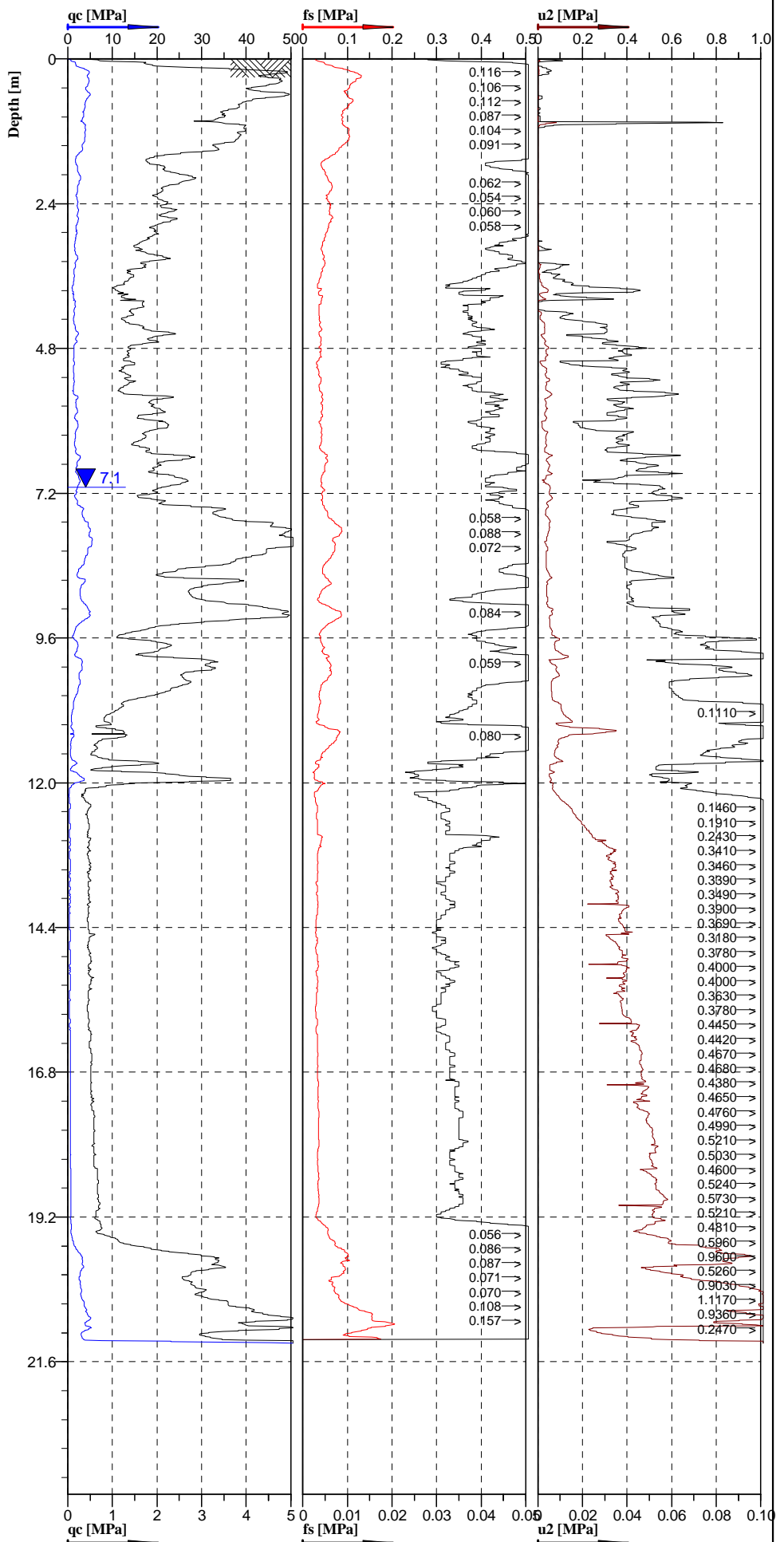
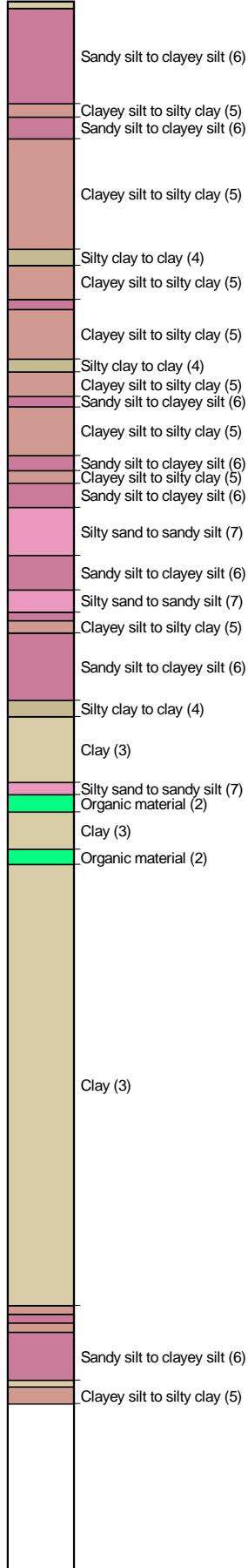
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298420 m, Y: 6177065 m	Ground level: 10.83	Test no: CPT13
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 4/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT13
Data provided by Insitu Geotech Services Pty Ltd			File: CPT13.cpd

Classification by
Robertson 1986

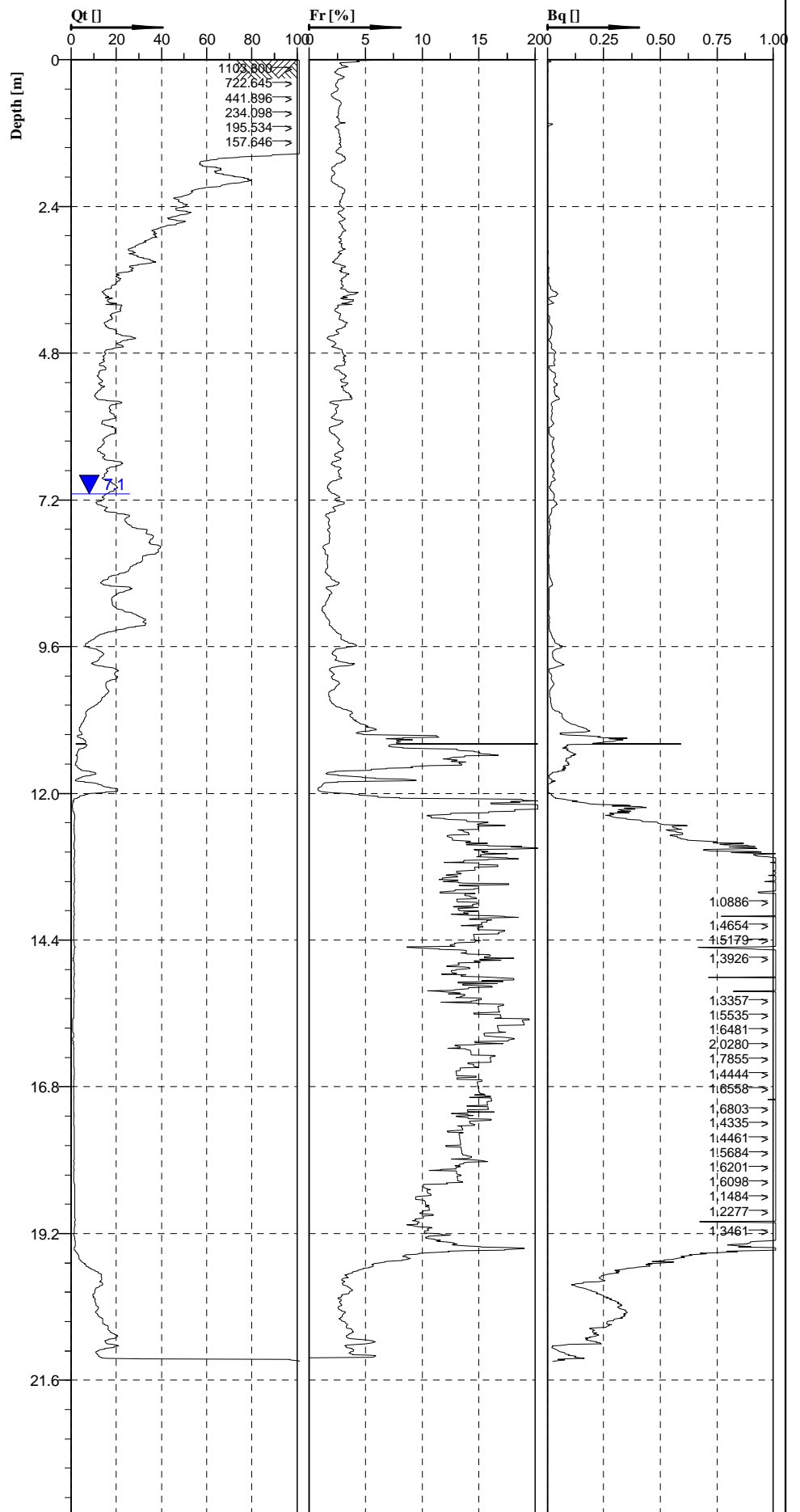
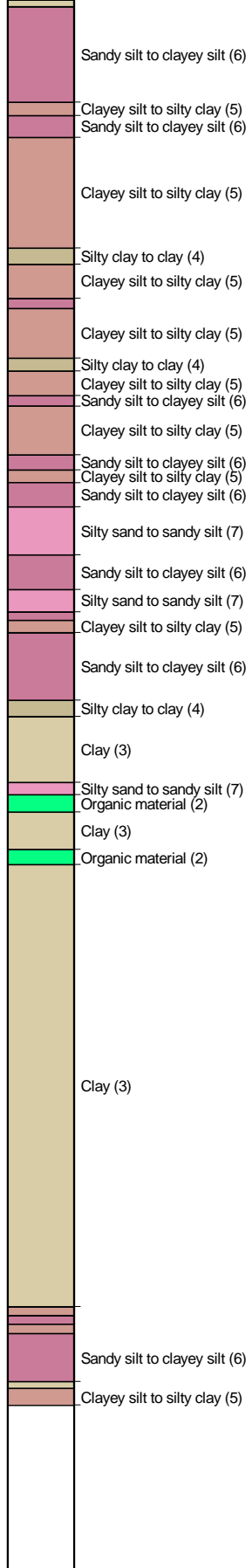


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 298231 m, Y: 6176960 m	Ground level: 10.76	Test no: CPT14
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT14
Data provided by Insitu Geotech Services Pty Ltd			File: CPT14.cpd

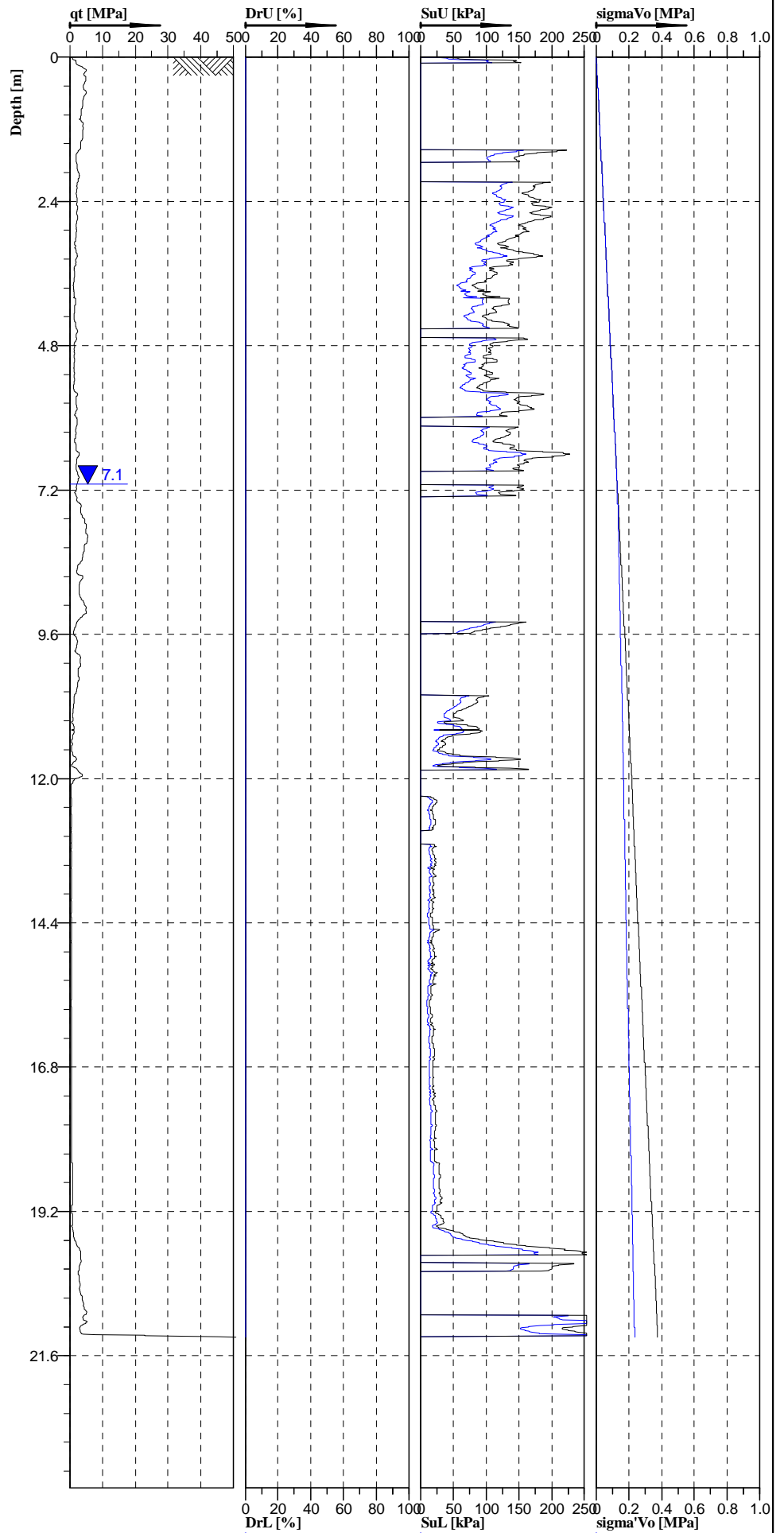
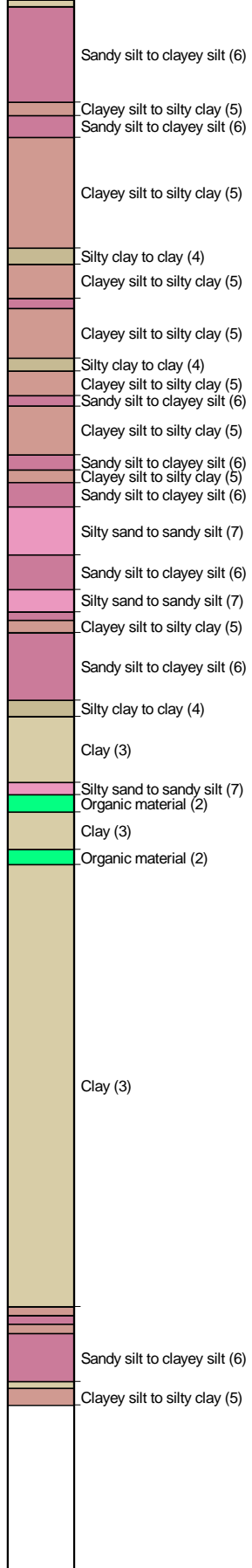
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298231 m, Y: 6176960 m	Ground level: 10.76	Test no: CPT14
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT14
Data provided by Insitu Geotech Services Pty Ltd			File: CPT14.cpd

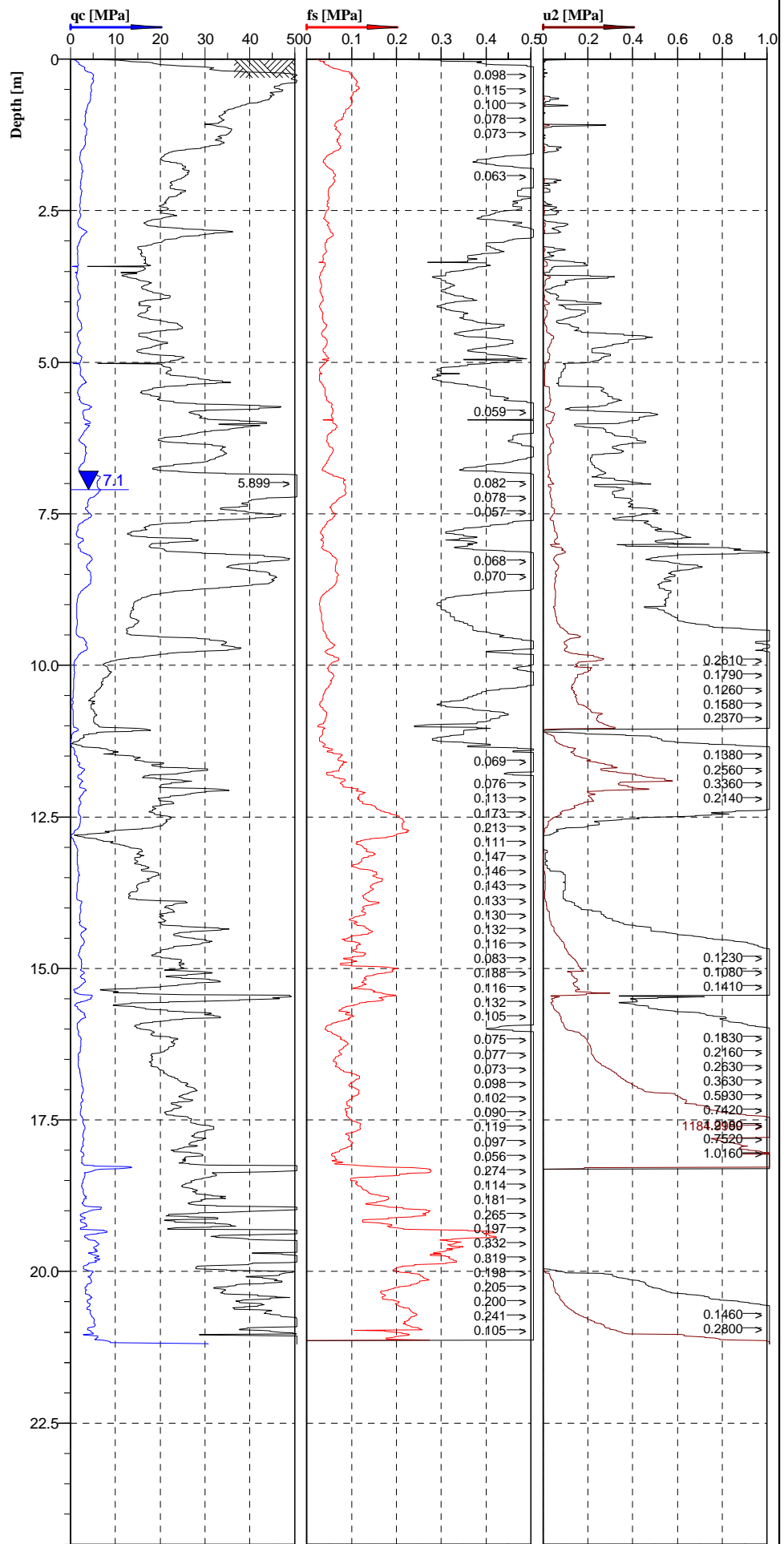
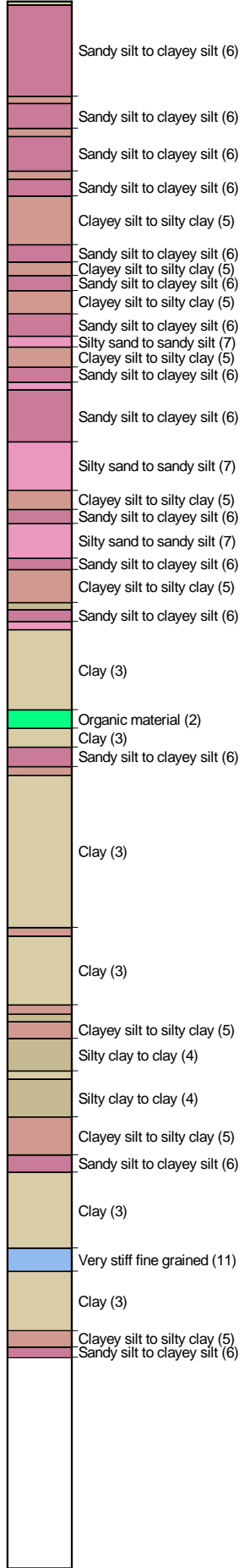
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298231 m, Y: 6176960 m	Ground level: 10.76	Test no: CPT14
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT14
Data provided by Insitu Geotech Services Pty Ltd			File: CPT14.cpd

Classification by Robertson 1986

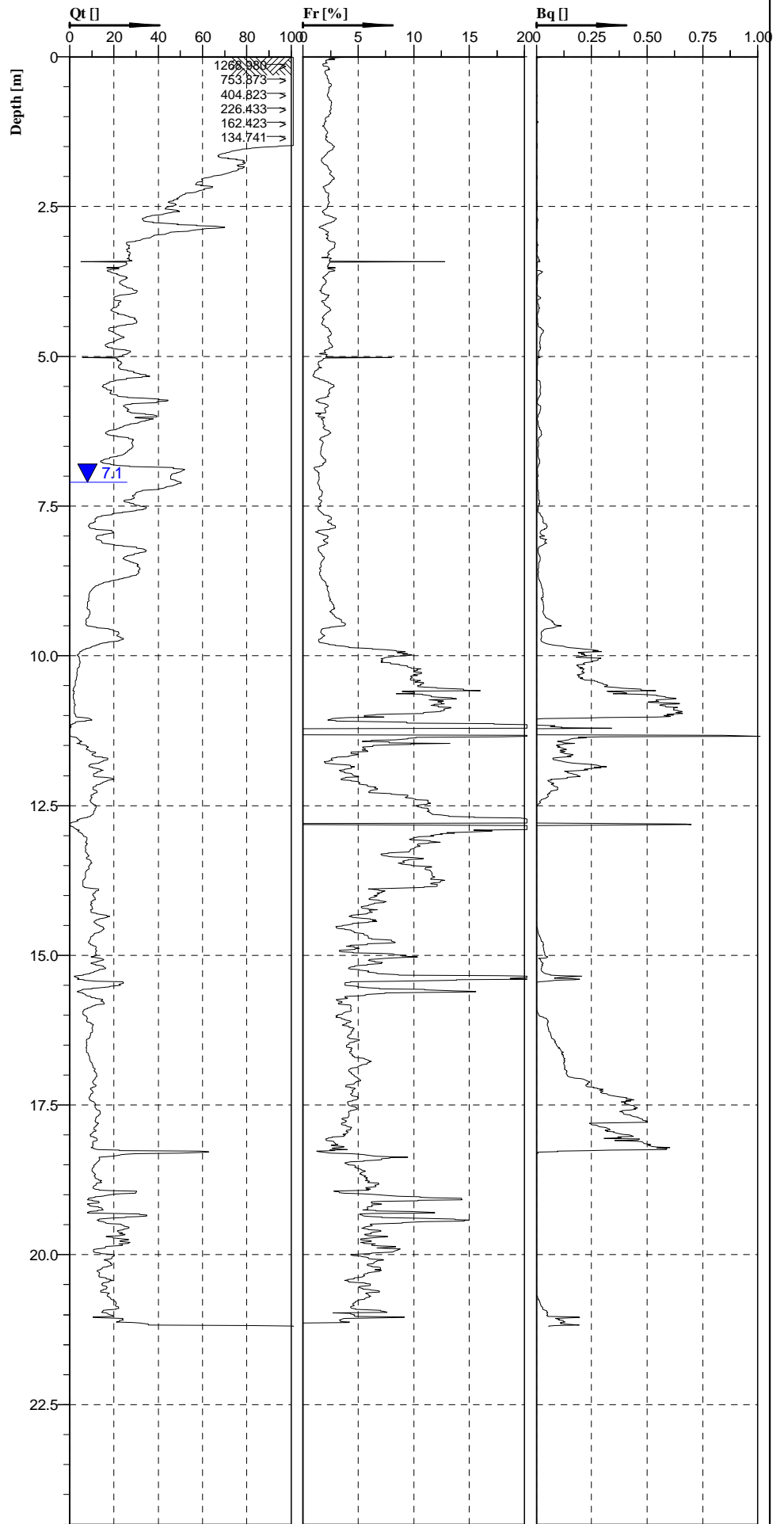
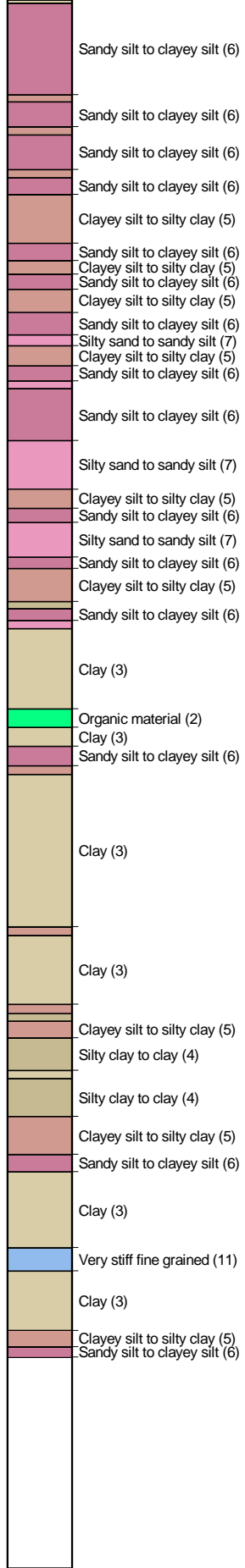


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: 2 3 4 5	Position: 0.01 0.02 0.03 0.04 0.05	Ground level: 0.04	Depth: 0.08
Location: YALLAH, NSW	Position: X: 298457 m, Y: 6176893 m	Ground level: 0.04	Depth: 0.08
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT15
Data provided by Insitu Geotech Services Pty Ltd		File: CPT15.cpd	

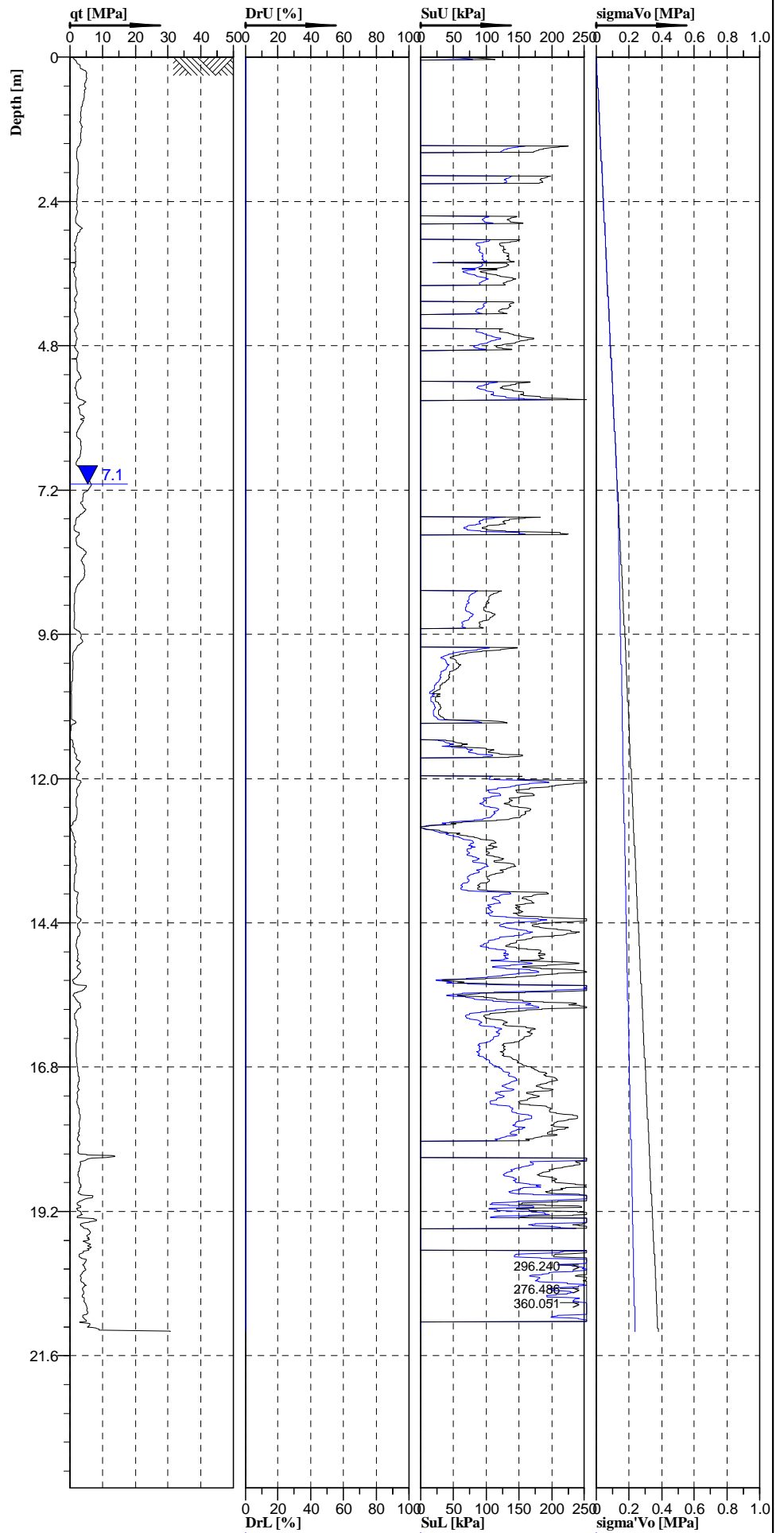
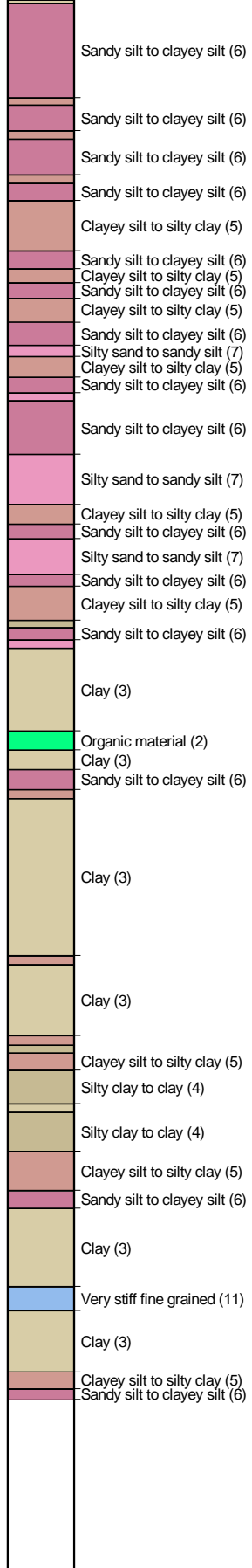
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298457 m, Y: 6176893 m	Ground level: 12.94	Test no: CPT15
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT15
Data provided by Insitu Geotech Services Pty Ltd			File: CPT15.cpd

Classification by
Robertson 1986

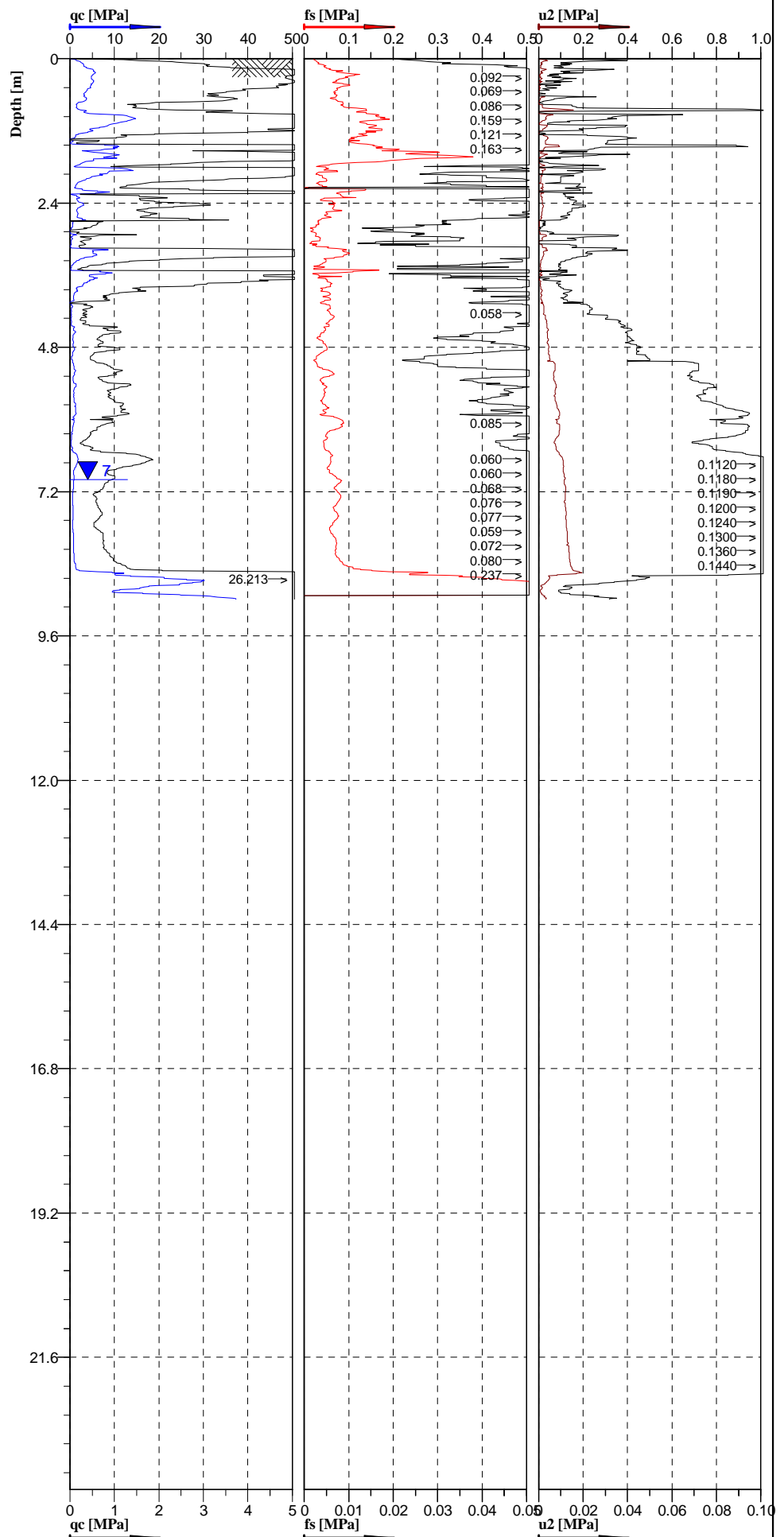


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298457 m, Y: 6176893 m	Ground level: 12.94	Test no: CPT15
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT15
Data provided by Insitu Geotech Services Pty Ltd			File: CPT15.cpd

Classification by
Robertson 1986

- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Organic material (2)
- Silty sand to sandy silt (7)
- Organic material (2)
- Clay (3)
- Organic material (2)
- Silty clay to clay (4)
- Clay (3)
- Sand to silty sand (8)
- Very stiff fine grained (11)

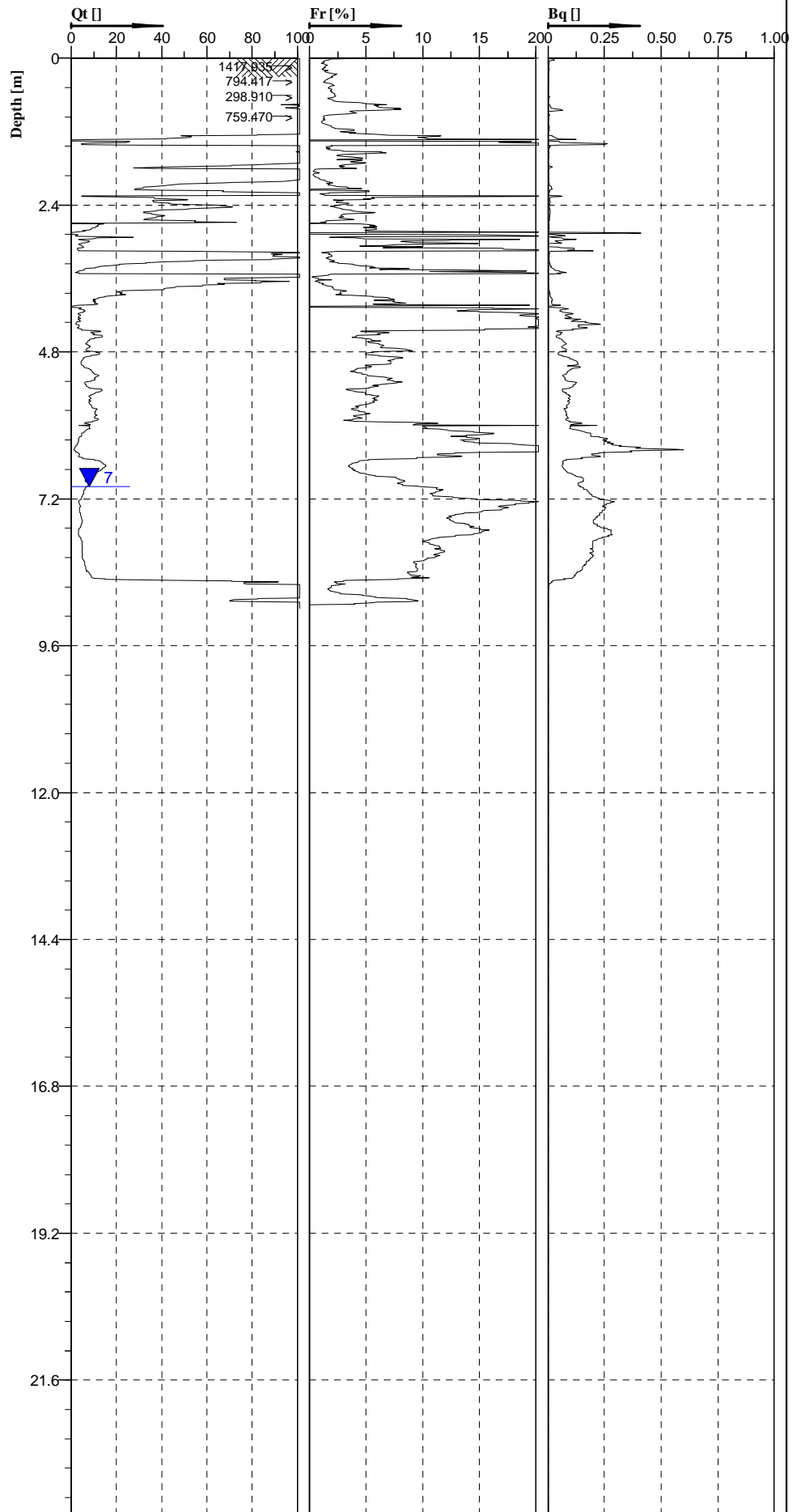


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298816 m, Y: 6176922 m	Ground level: 9.76	Test no: CPT16
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT16
Data provided by Insitu Geotech Services Pty Ltd			File: CPT16.cpd

**Classification by
Robertson 1986**

- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Organic material (2)
- Silty sand to sandy silt (7)
- Organic material (2)
- Clay (3)
- Organic material (2)
- Silty clay to clay (4)
- Clay (3)
- Sand to silty sand (8)
- Very stiff fine grained (11)

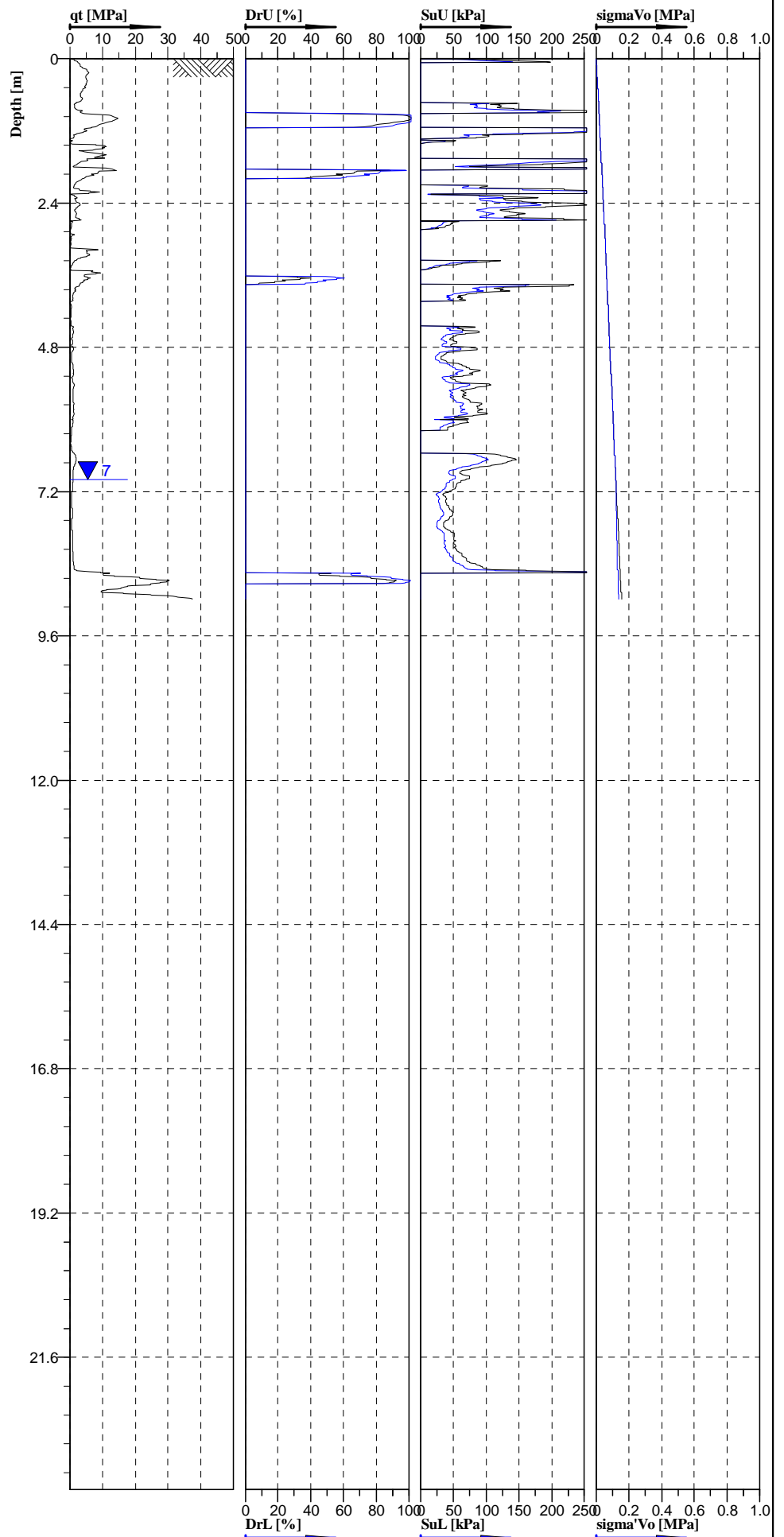


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298816 m, Y: 6176922 m	Ground level: 9.76	Test no: CPT16
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT16
Data provided by Insitu Geotech Services Pty Ltd			File: CPT16.cpd

Classification by
Robertson 1986

- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Organic material (2)
- Silty sand to sandy silt (7)
- Organic material (2)
- Organic material (2)
- Clay (3)
- Organic material (2)
- Silty clay to clay (4)
- Clay (3)
- Sand to silty sand (8)
- Very stiff fine grained (11)

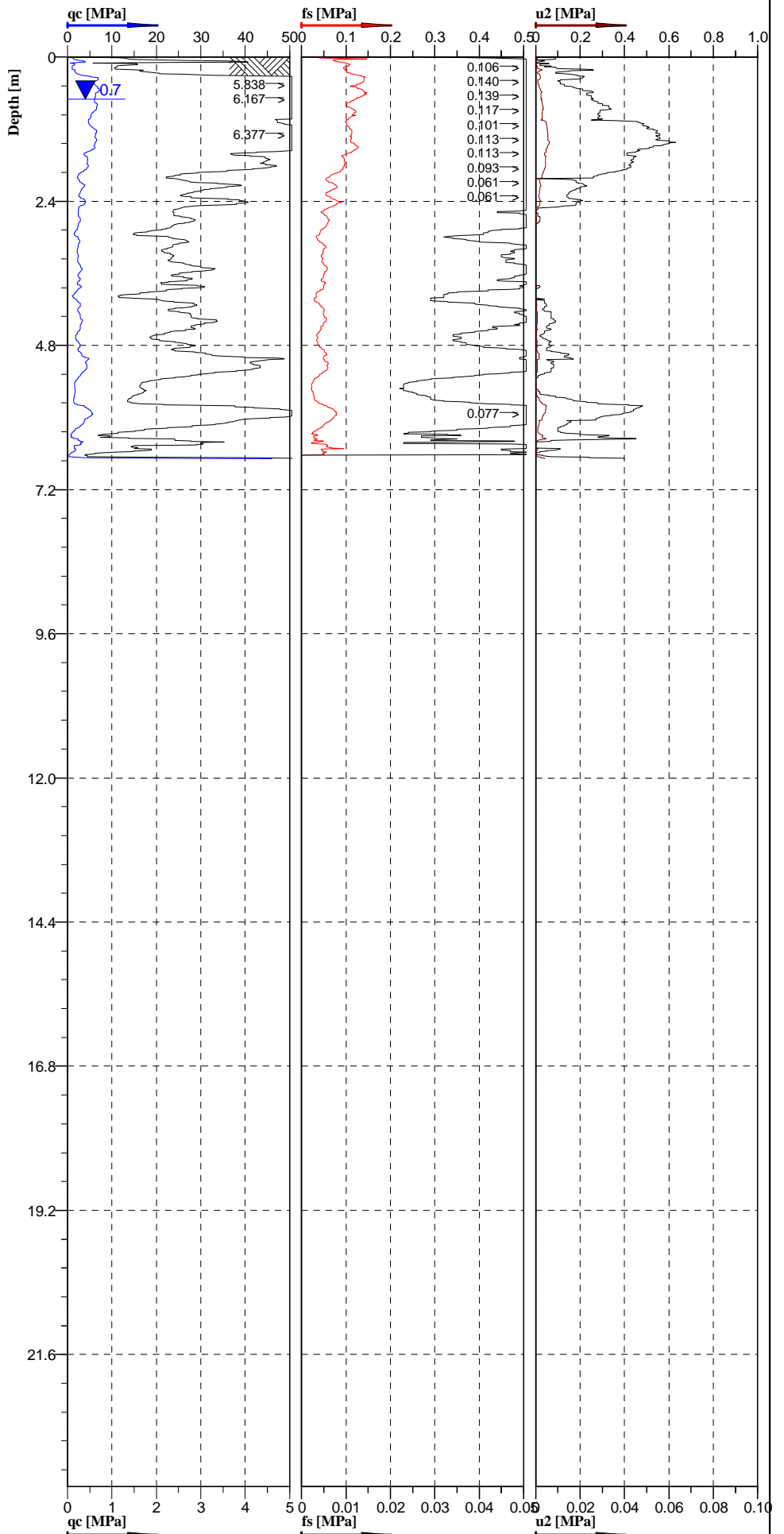


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298816 m, Y: 6176922 m	Ground level: 9.76	Test no: CPT16
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 11/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT16
Data provided by Insitu Geotech Services Pty Ltd			File: CPT16.cpd

Classification by
Robertson 1986

- Clay (3)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)

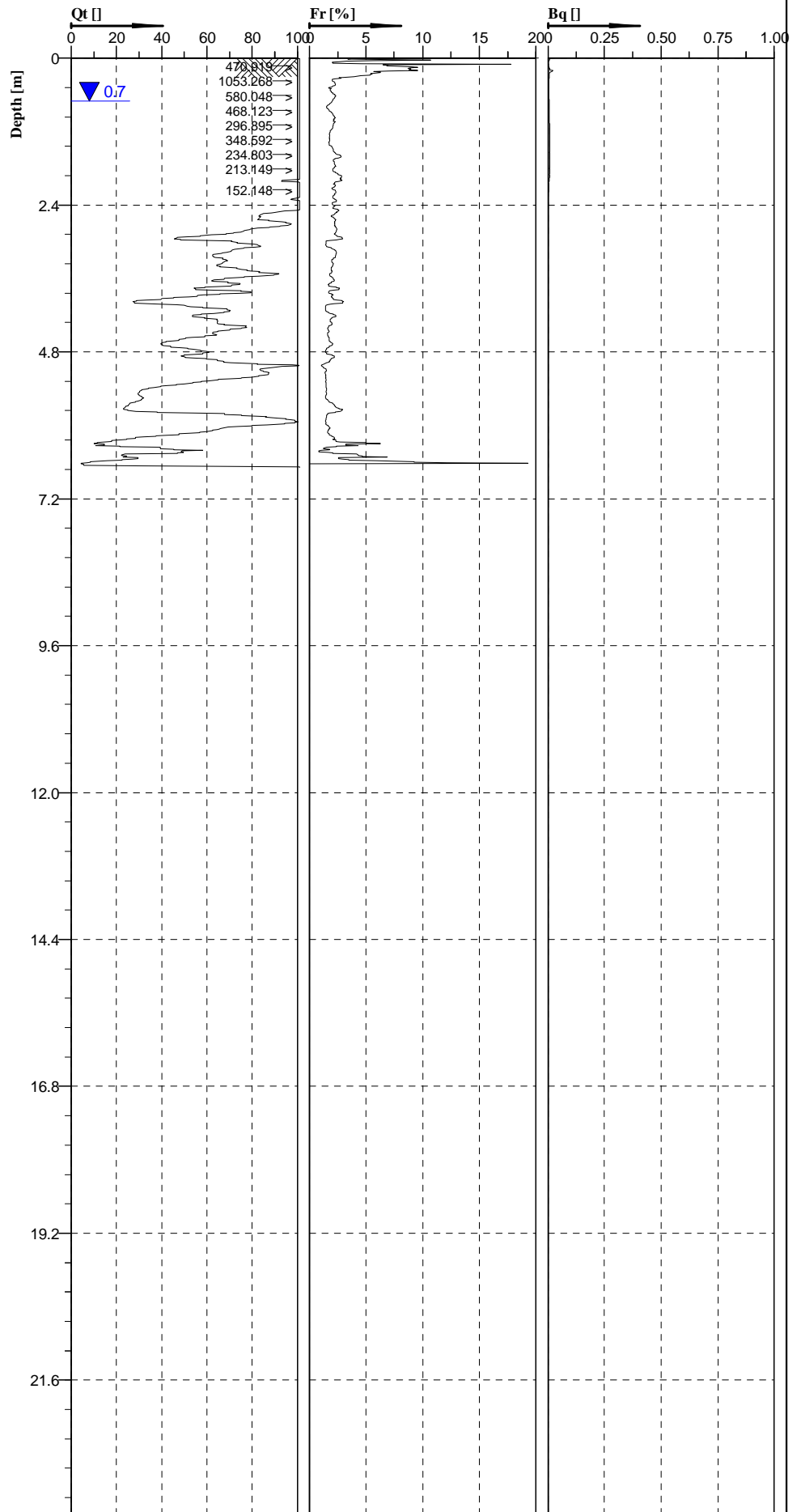


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298700 m, Y: 6176819 m	Ground level: 10.45	Test no: CPT17
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT17
Data provided by Insitu Geotech Services Pty Ltd			File: CPT17.cpd

Classification by
Robertson 1986

- Clay (3)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)

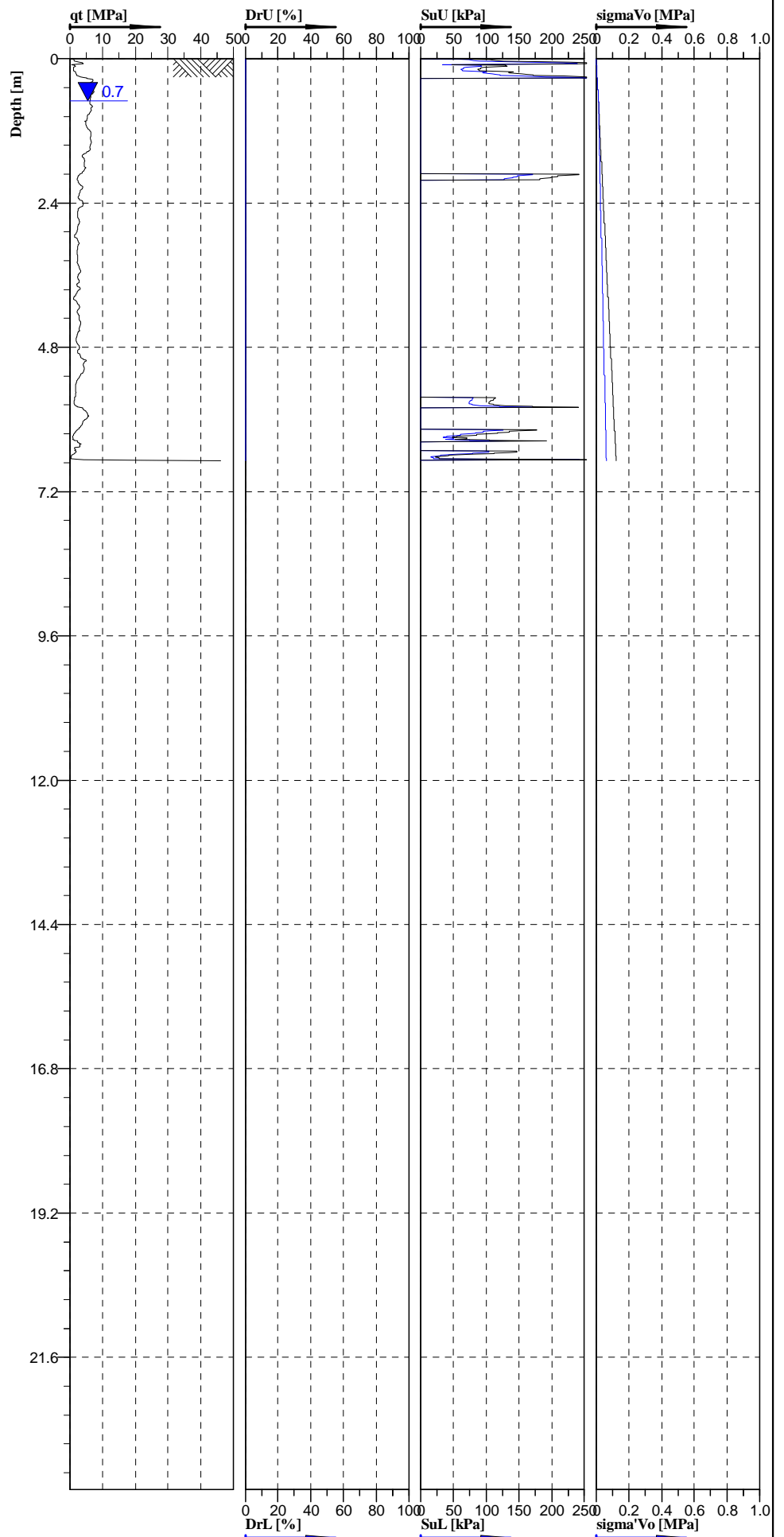


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298700 m, Y: 6176819 m	Ground level: 10.45	Test no: CPT17
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT17
Data provided by Insitu Geotech Services Pty Ltd			File: CPT17.cpd

Classification by
Robertson 1986

- Clay (3)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)

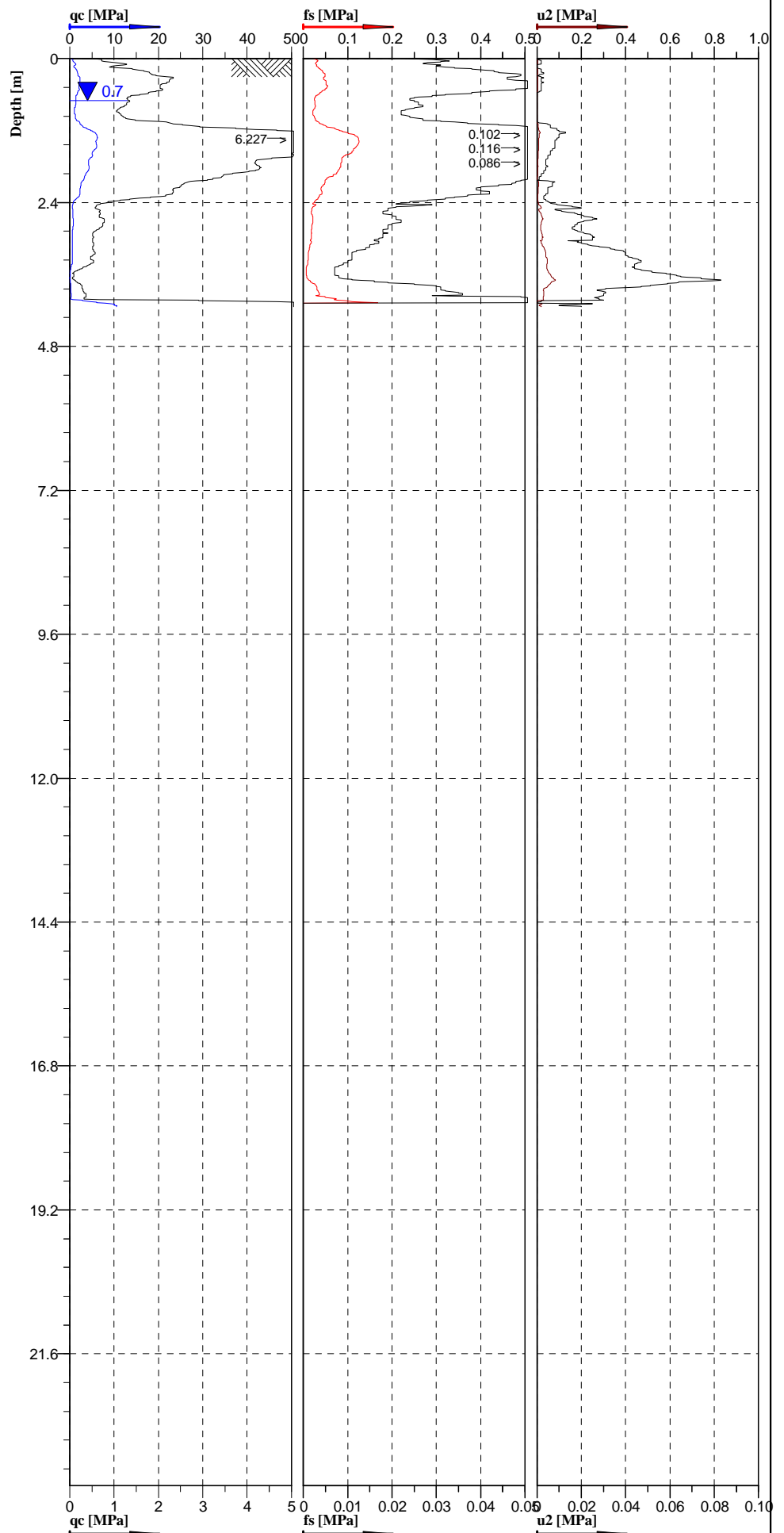


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298700 m, Y: 6176819 m	Ground level: 10.45	Test no: CPT17
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT17
Data provided by Insitu Geotech Services Pty Ltd			File: CPT17.cpd

Classification by
Robertson 1986

- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Organic material (2)

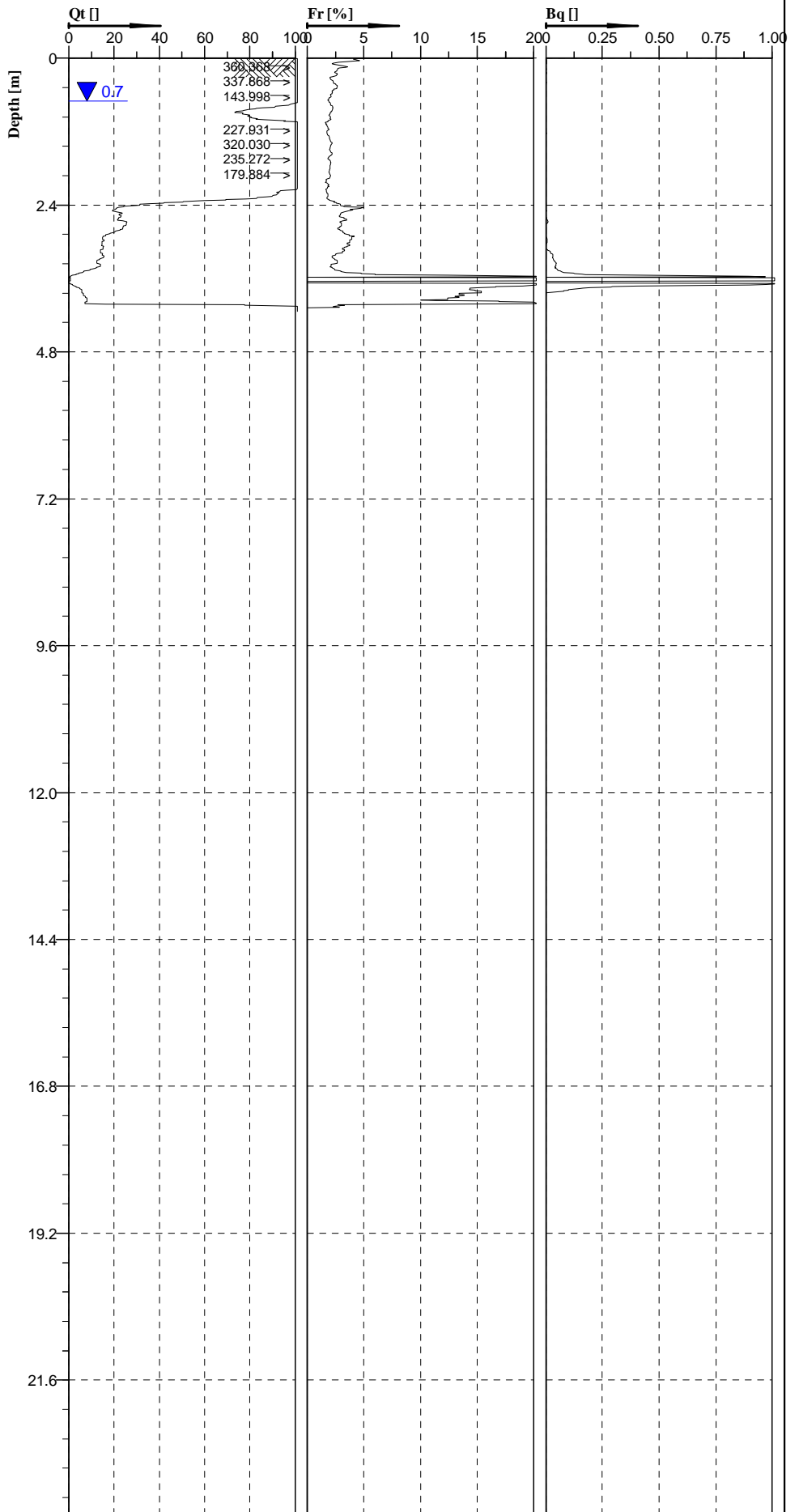


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298838 m, Y: 6176755 m	Ground level: 6.17	Test no: CPT18
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT18
Data provided by Insitu Geotech Services Pty Ltd			File: CPT18.cpd

Classification by Robertson 1986

- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Organic material (2)

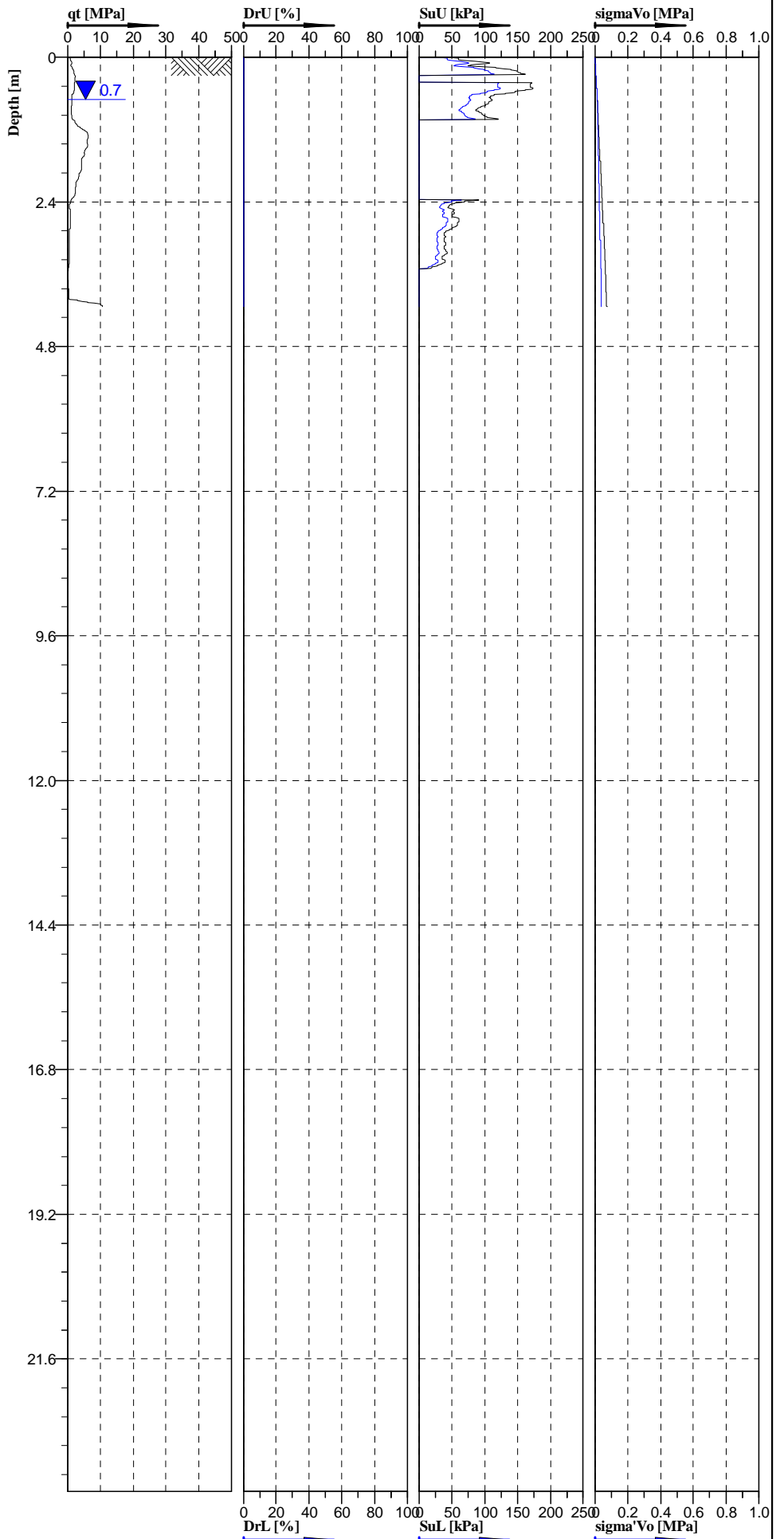


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298838 m, Y: 6176755 m	Ground level: 6.17	Test no: CPT18
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT18
Data provided by Insitu Geotech Services Pty Ltd			File: CPT18.cpd

Classification by
Robertson 1986

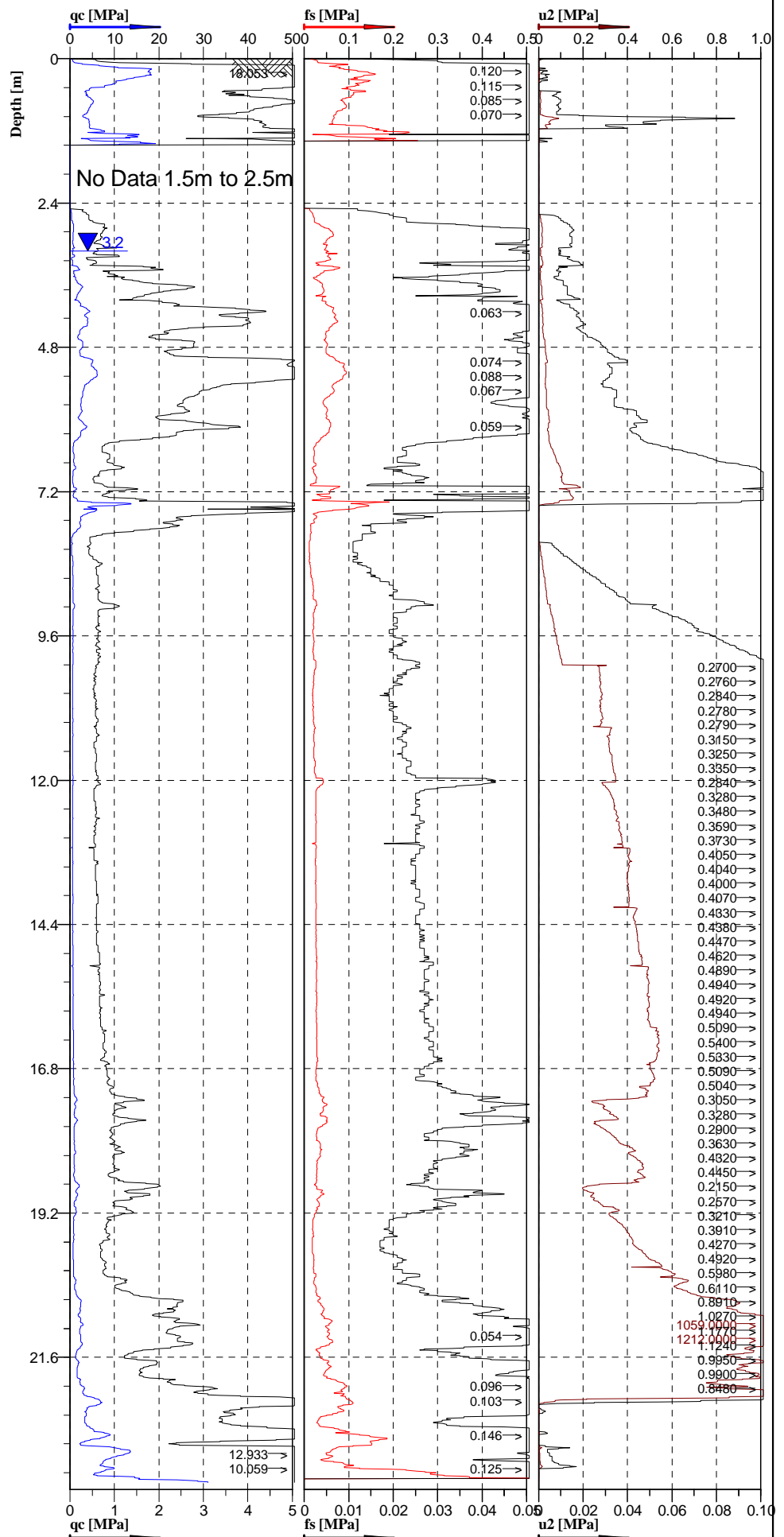
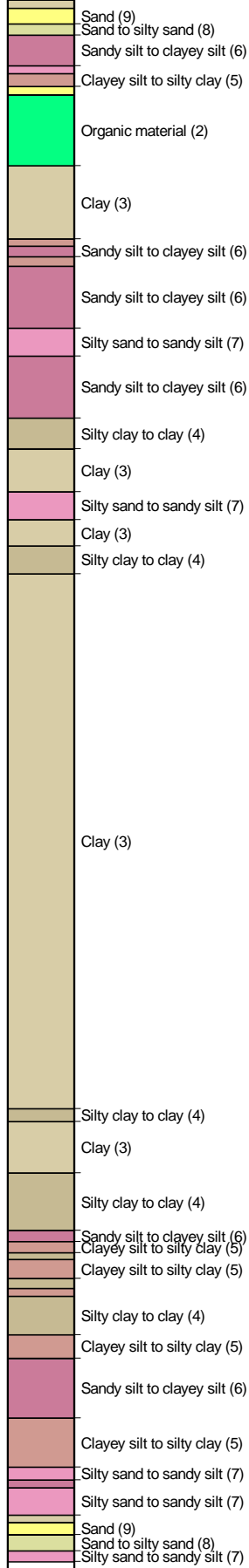
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Organic material (2)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298838 m, Y: 6176755 m	Ground level: 6.17	Test no: CPT18
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 5/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT18
Data provided by Insitu Geotech Services Pty Ltd			File: CPT18.cpd

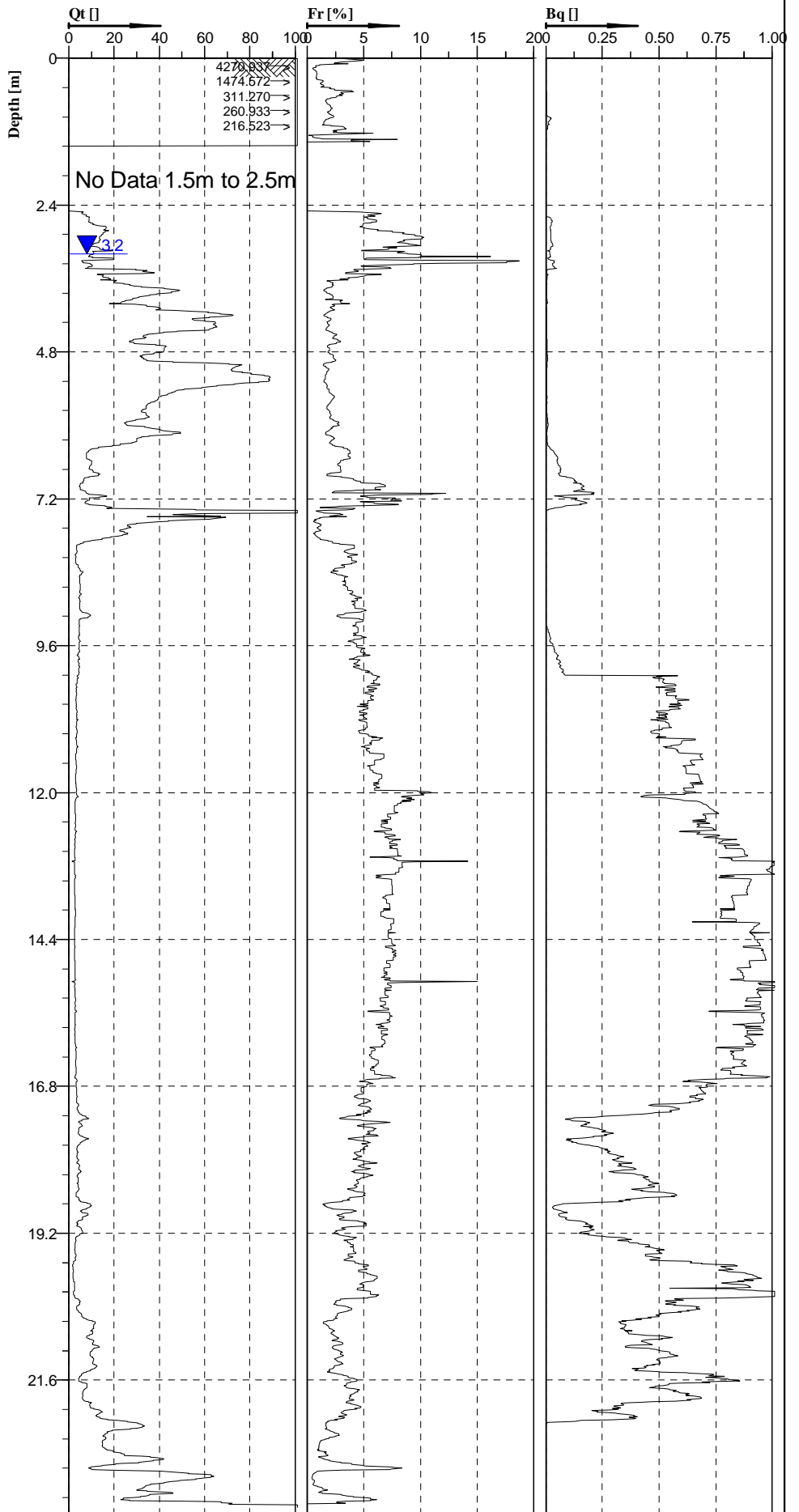
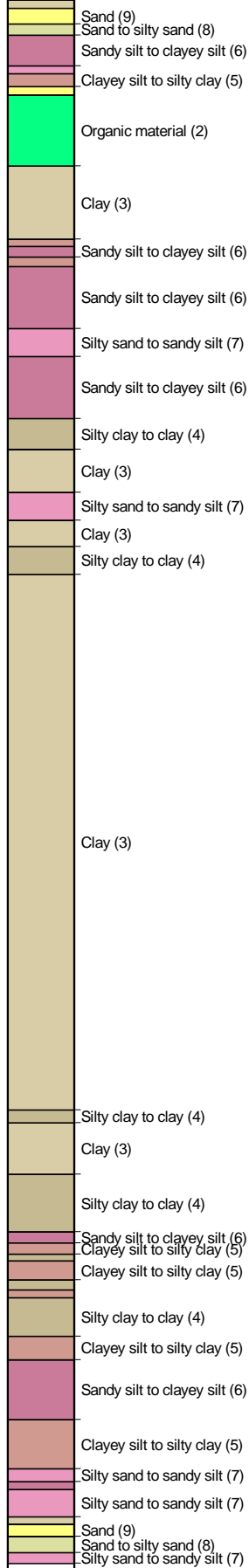
Classification by Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 0298214 m, Y: 6176625 m	Ground level: 6.43	Test no: CPT19
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/03/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT19
Data provided by Insitu Geotech Services			File: CPT19.cpd

**Classification by
Robertson 1986**

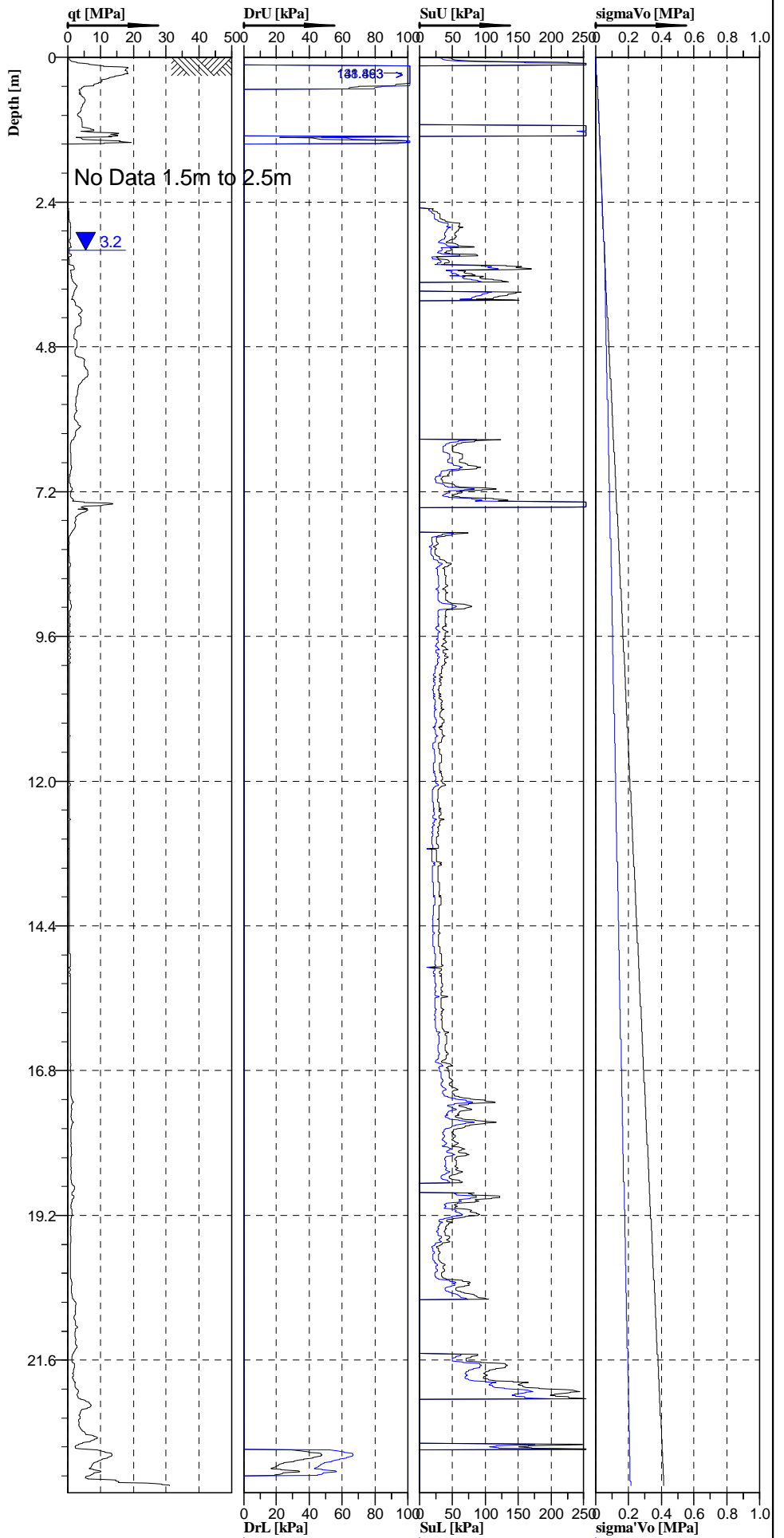


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 0298214 m, Y: 6176625 m	Ground level: 6.43	Test no: CPT19
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/03/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT19
Data provided by Insitu Geotech Services			File: CPT19.cpd

**Classification by
Robertson 1986**

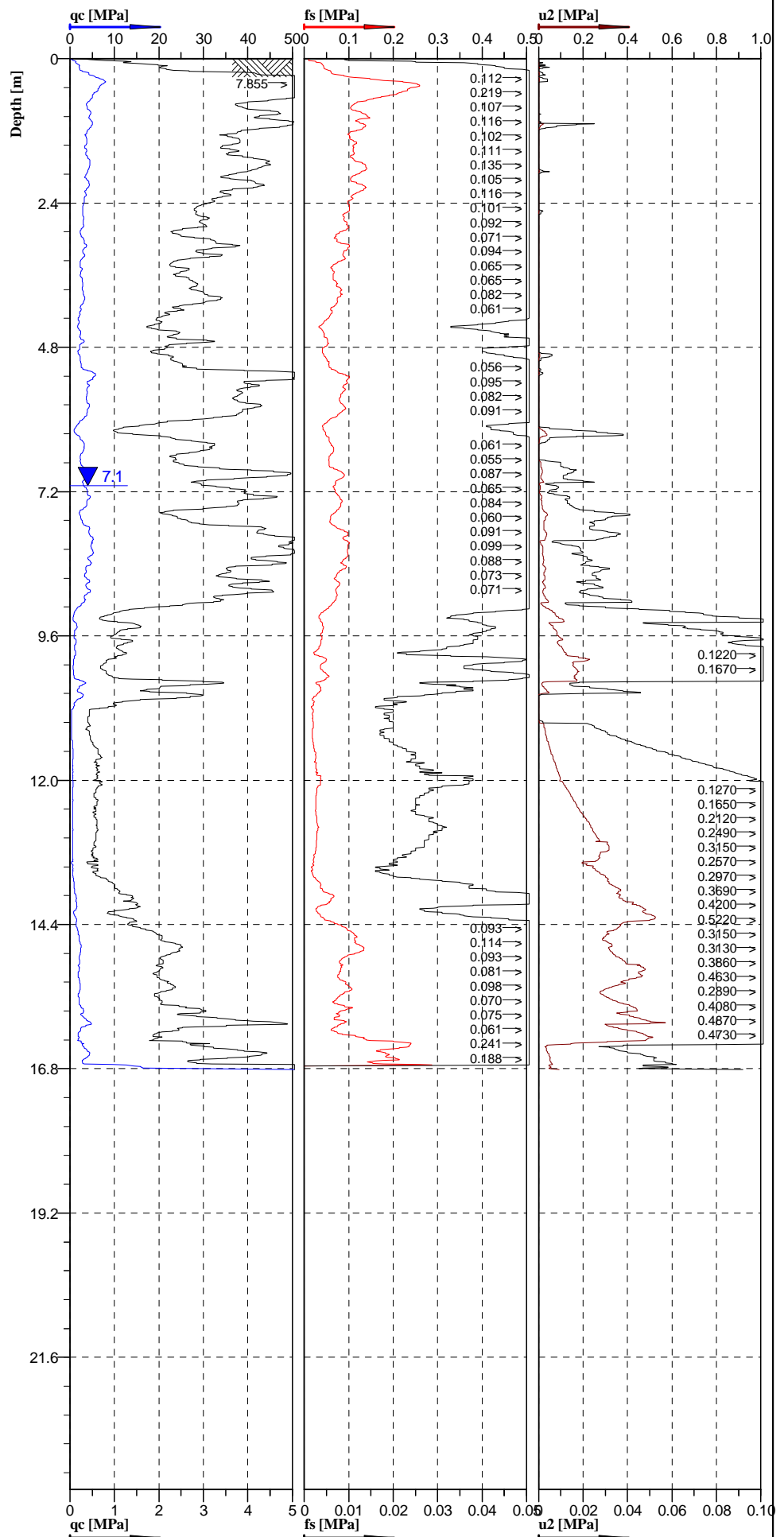
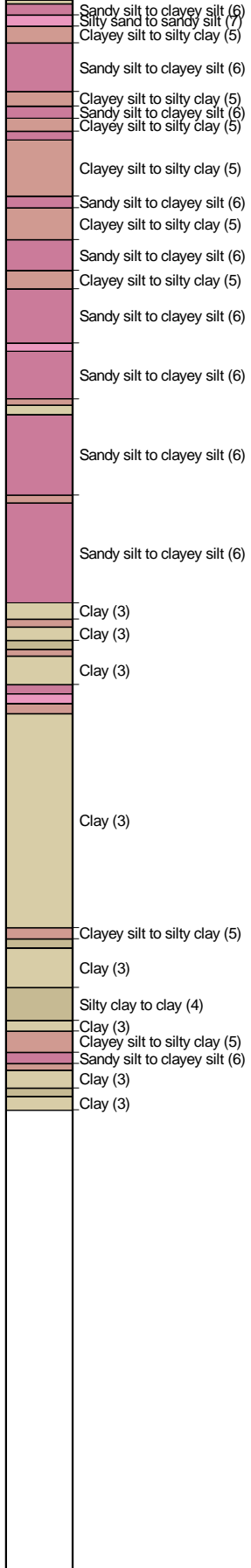
- Sand (9)
- Sand to silty sand (8)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Organic material (2)
- Clay (3)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty clay to clay (4)
- Clay (3)
- Silty sand to sandy silt (7)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand (9)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 0298214 m, Y: 6176625 m	Ground level: 6.43	Test no: CPT19
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 3/03/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT19
Data provided by Insitu Geotech Services			File: CPT19.cpd

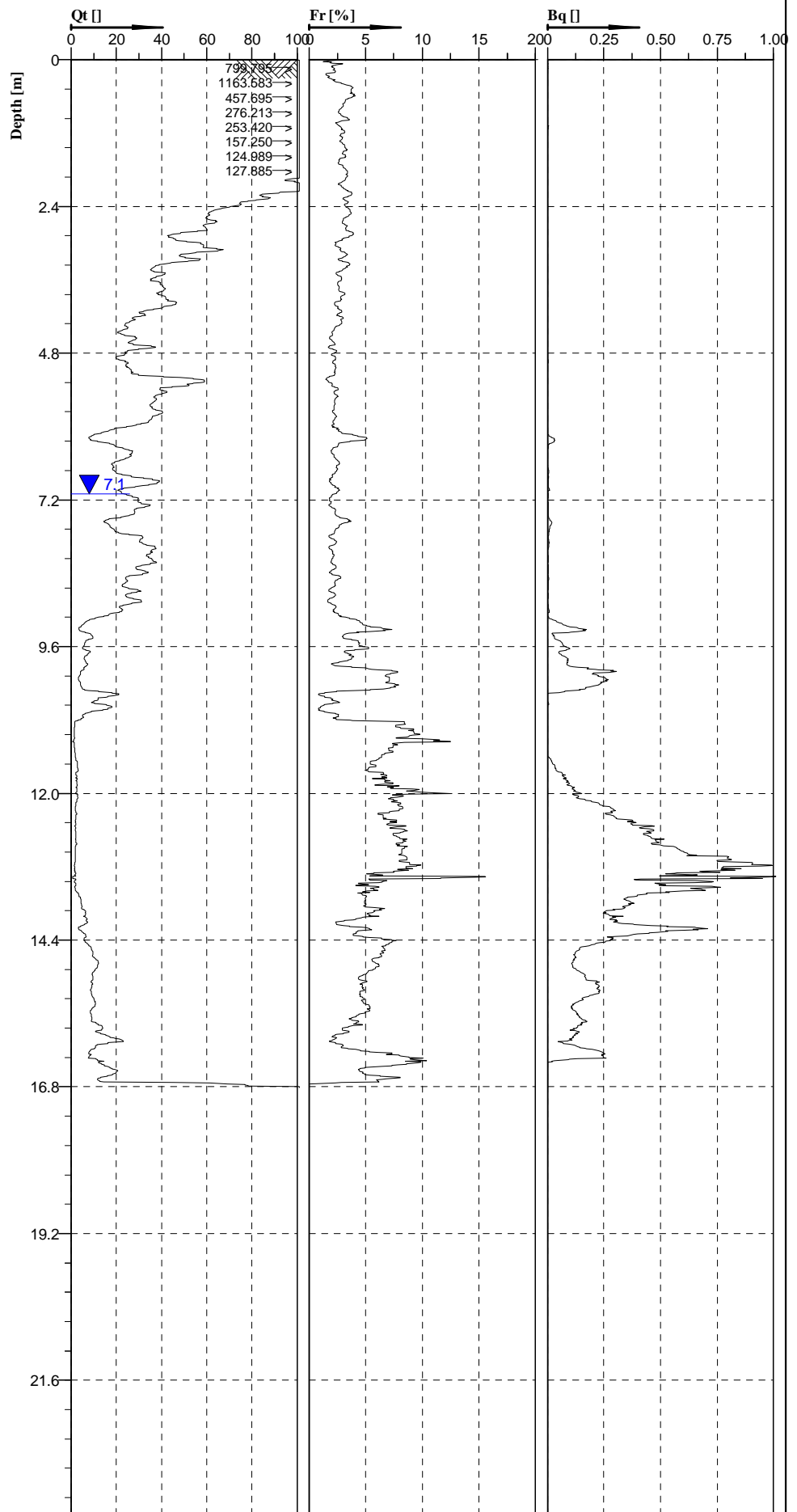
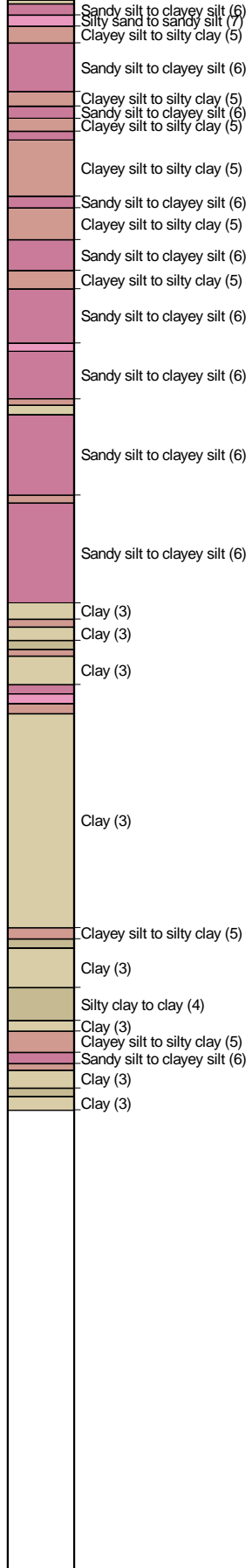
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298310 m, Y: 6176688 m	Ground level: 10.55	Test no: CPT20
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT20
Data provided by Insitu Geotech Services Pty Ltd			File: CPT20.cpd

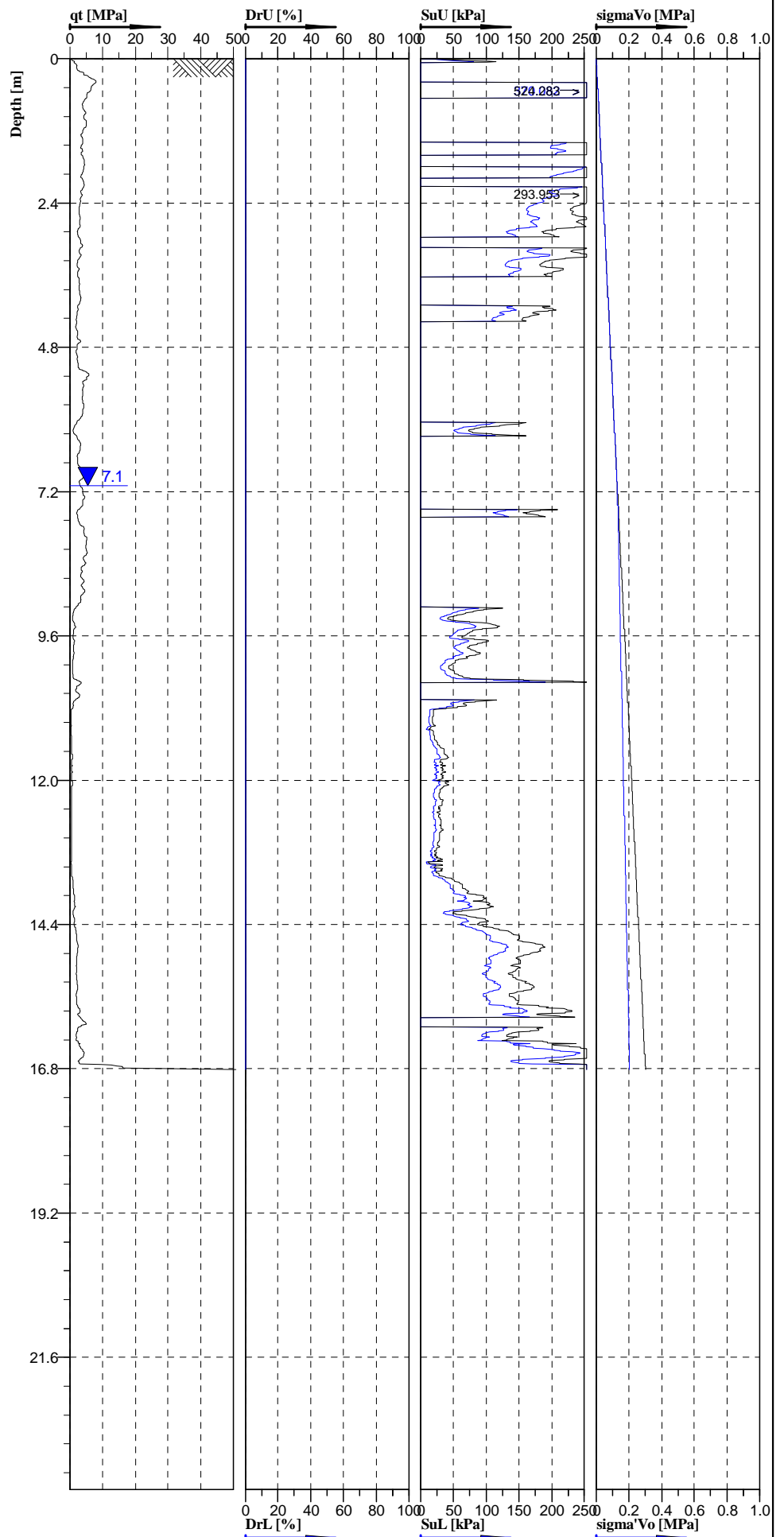
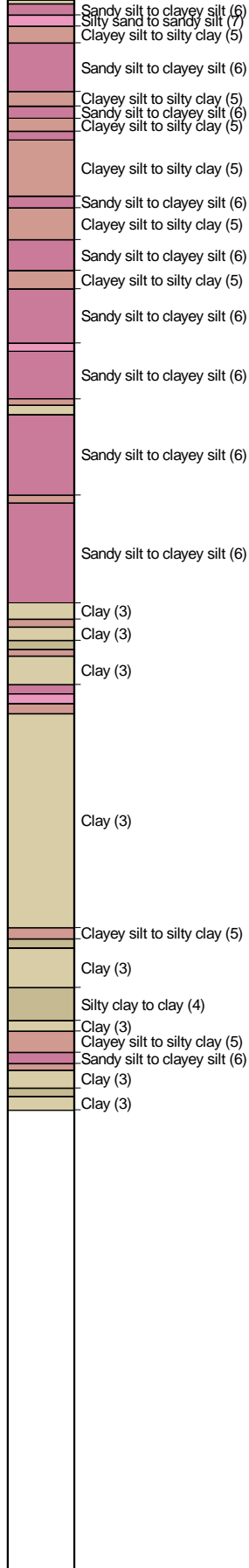
**Classification by
Robertson 1986**



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298310 m, Y: 6176688 m	Ground level: 10.55	Test no: CPT20
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT20
Data provided by Insitu Geotech Services Pty Ltd			File: CPT20.cpd

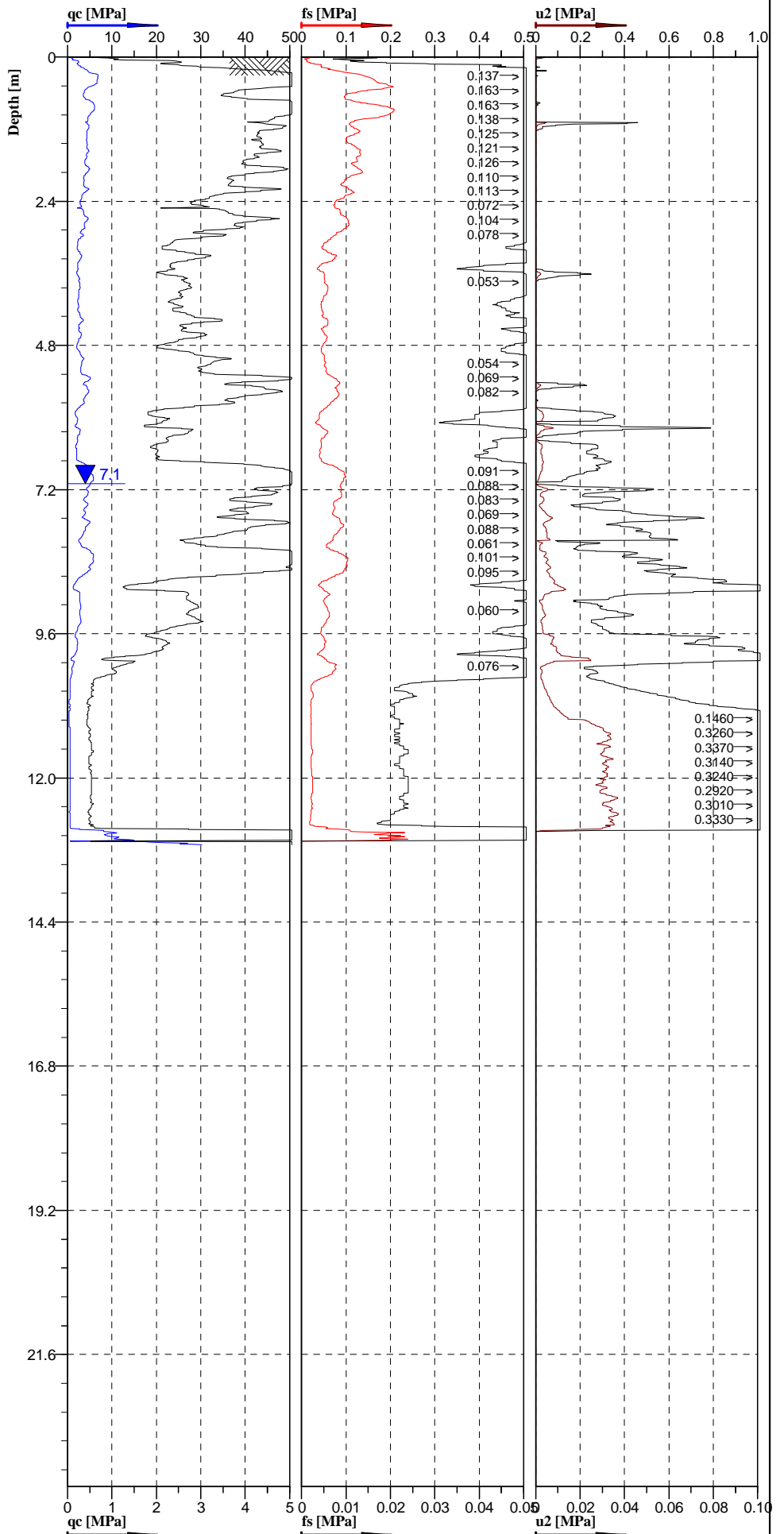
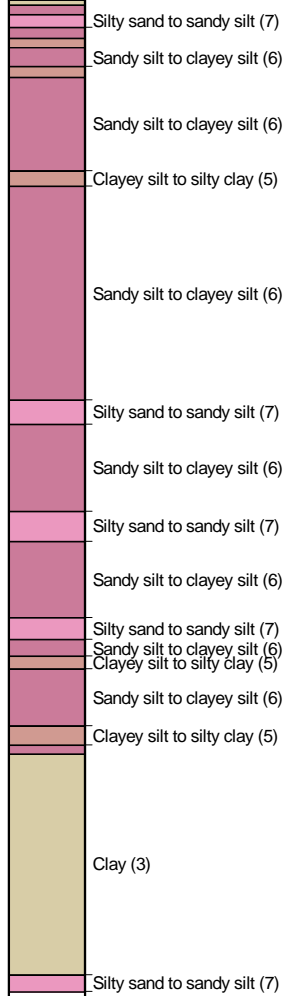
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298310 m, Y: 6176688 m	Ground level: 10.55	Test no: CPT20
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT20
Data provided by Insitu Geotech Services Pty Ltd			File: CPT20.cpd

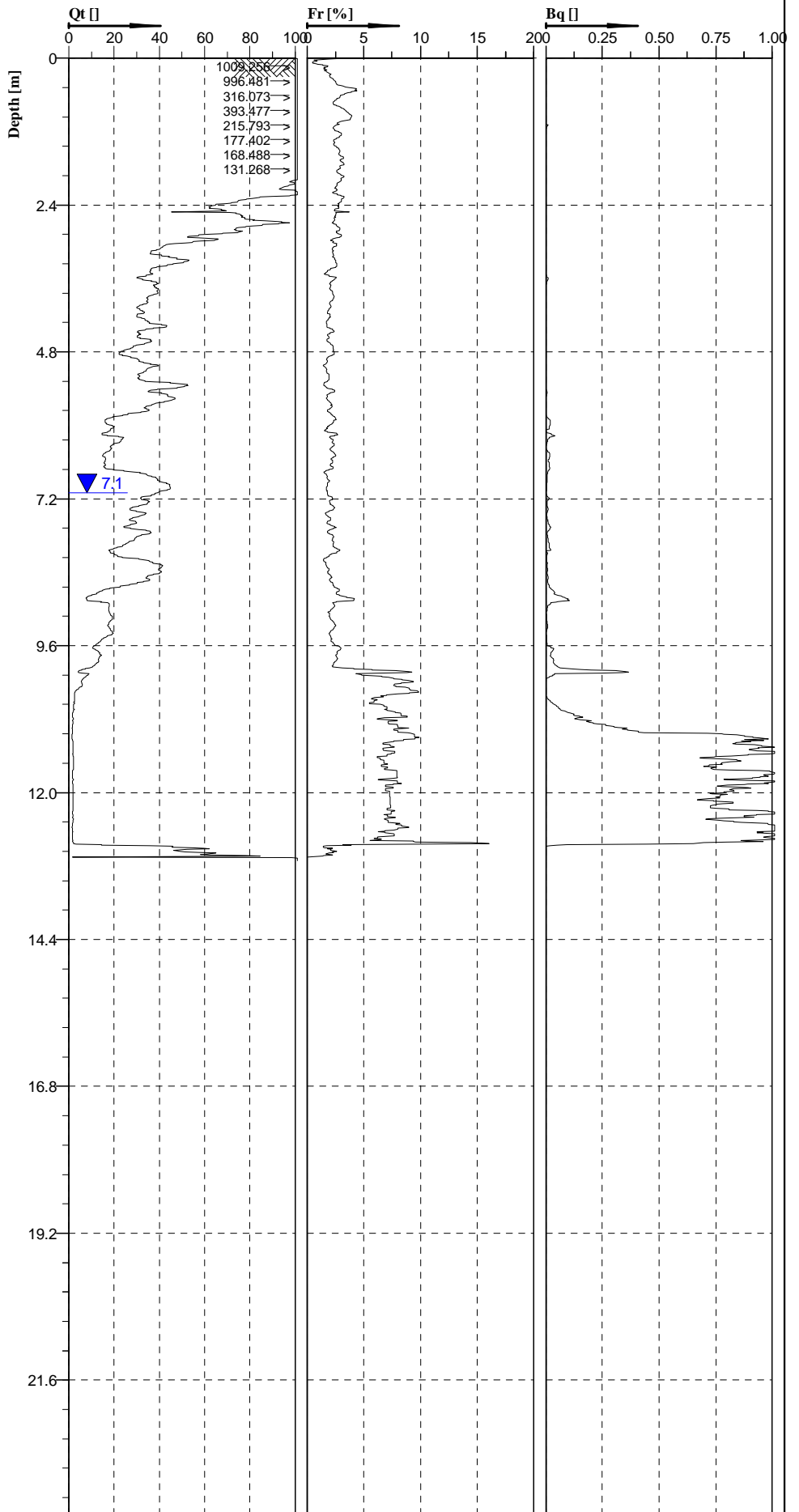
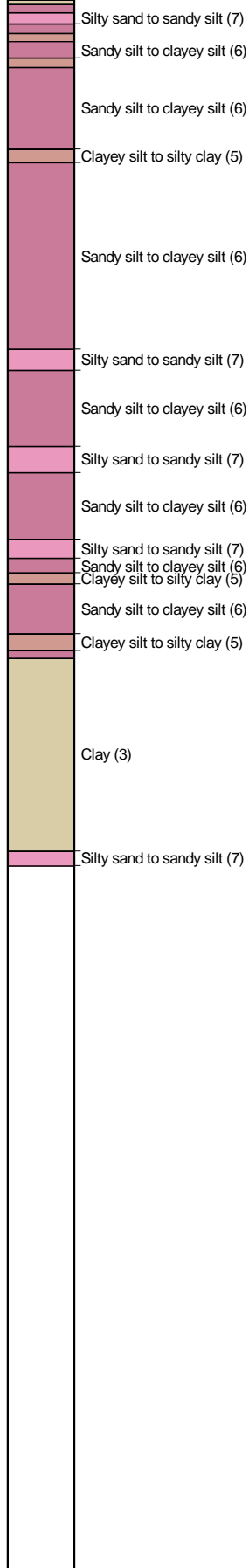
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298479 m, Y: 6176703 m	Ground level: 10.20	Test no: CPT21
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT21
Data provided by Insitu Geotech Services Pty Ltd			File: CPT21.cpd

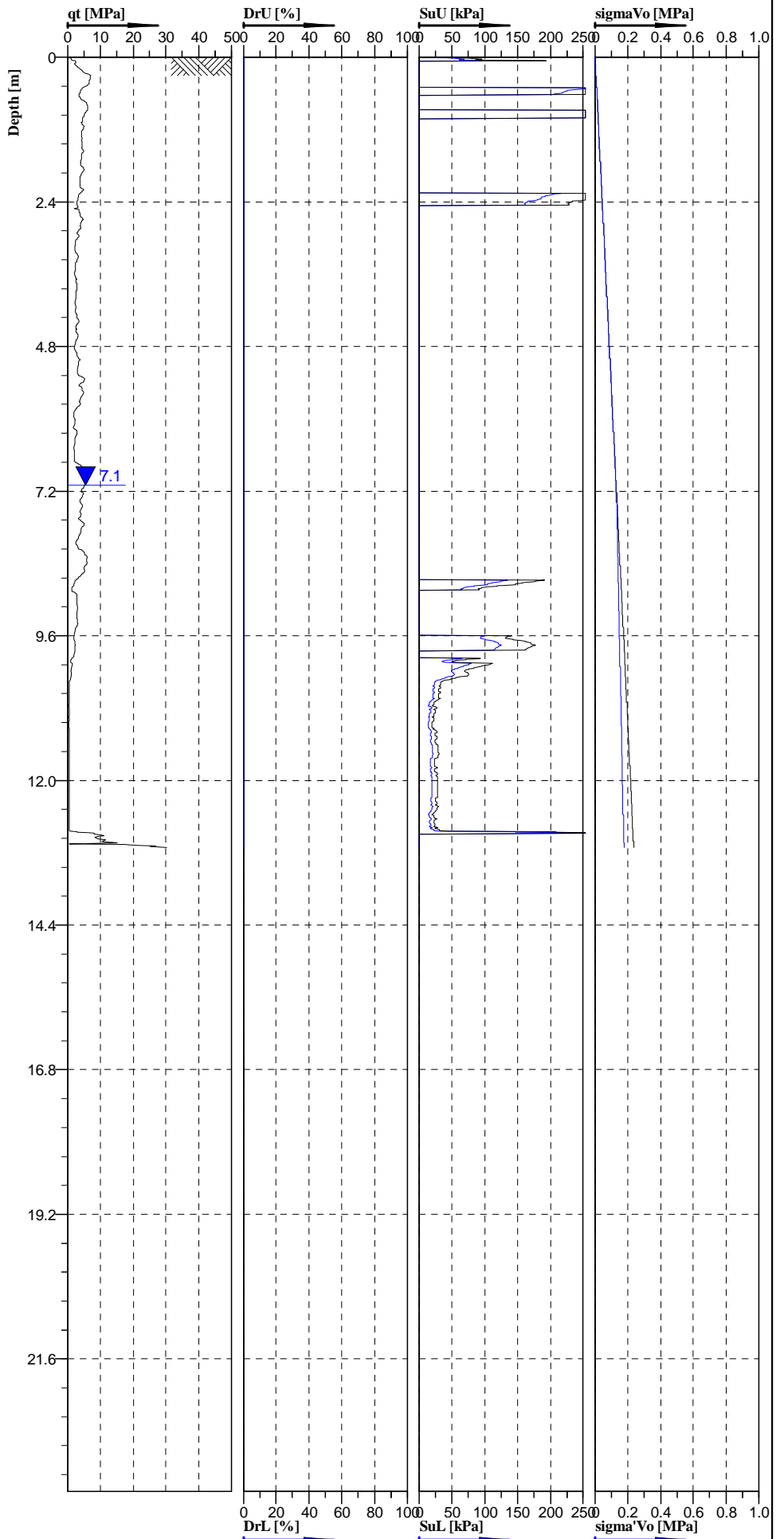
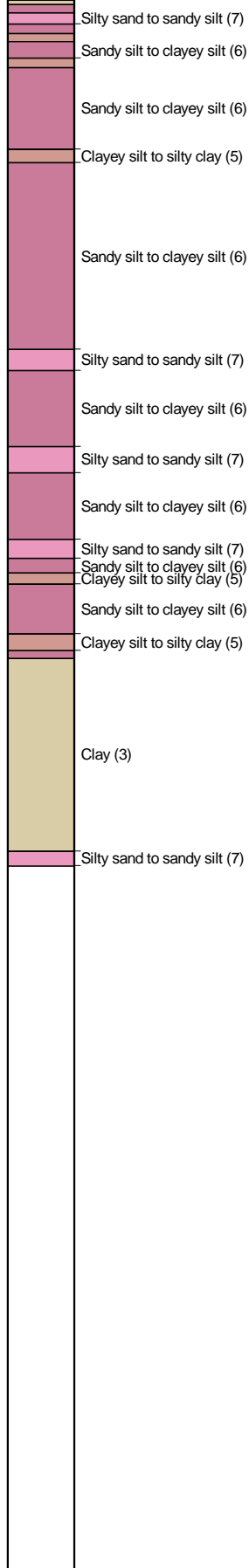
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298479 m, Y: 6176703 m	Ground level: 10.20	Test no: CPT21
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT21
Data provided by Insitu Geotech Services Pty Ltd			File: CPT21.cpd

Classification by
Robertson 1986

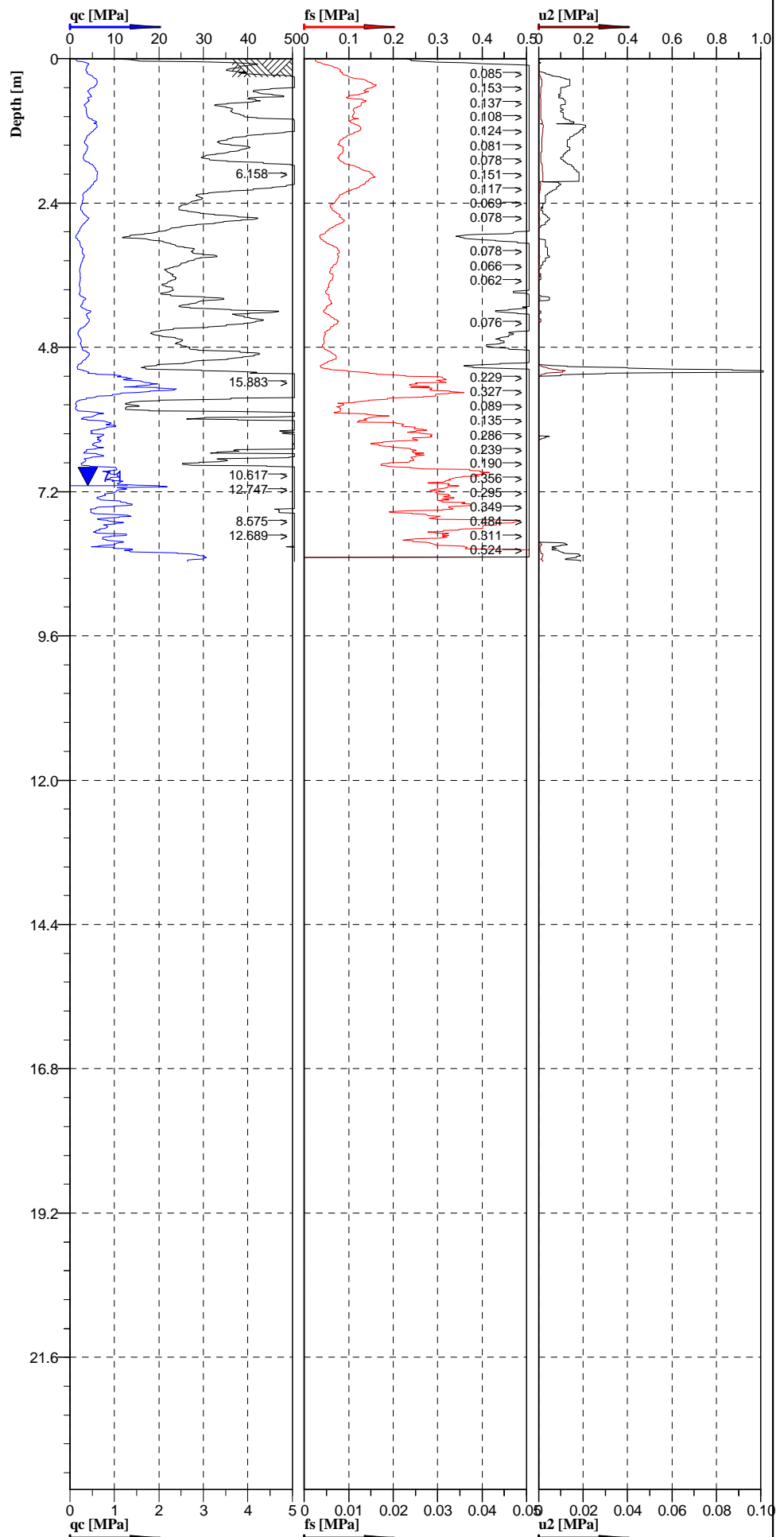


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298479 m, Y: 6176703 m	Ground level: 10.20	Test no: CPT21
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT21
Data provided by Insitu Geotech Services Pty Ltd			File: CPT21.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty sand to sandy silt (7)
- Very stiff fine grained (11)
- Very stiff fine grained (11)
- Sandy silt to clayey silt (6)
- Sand to clayey sand (12)

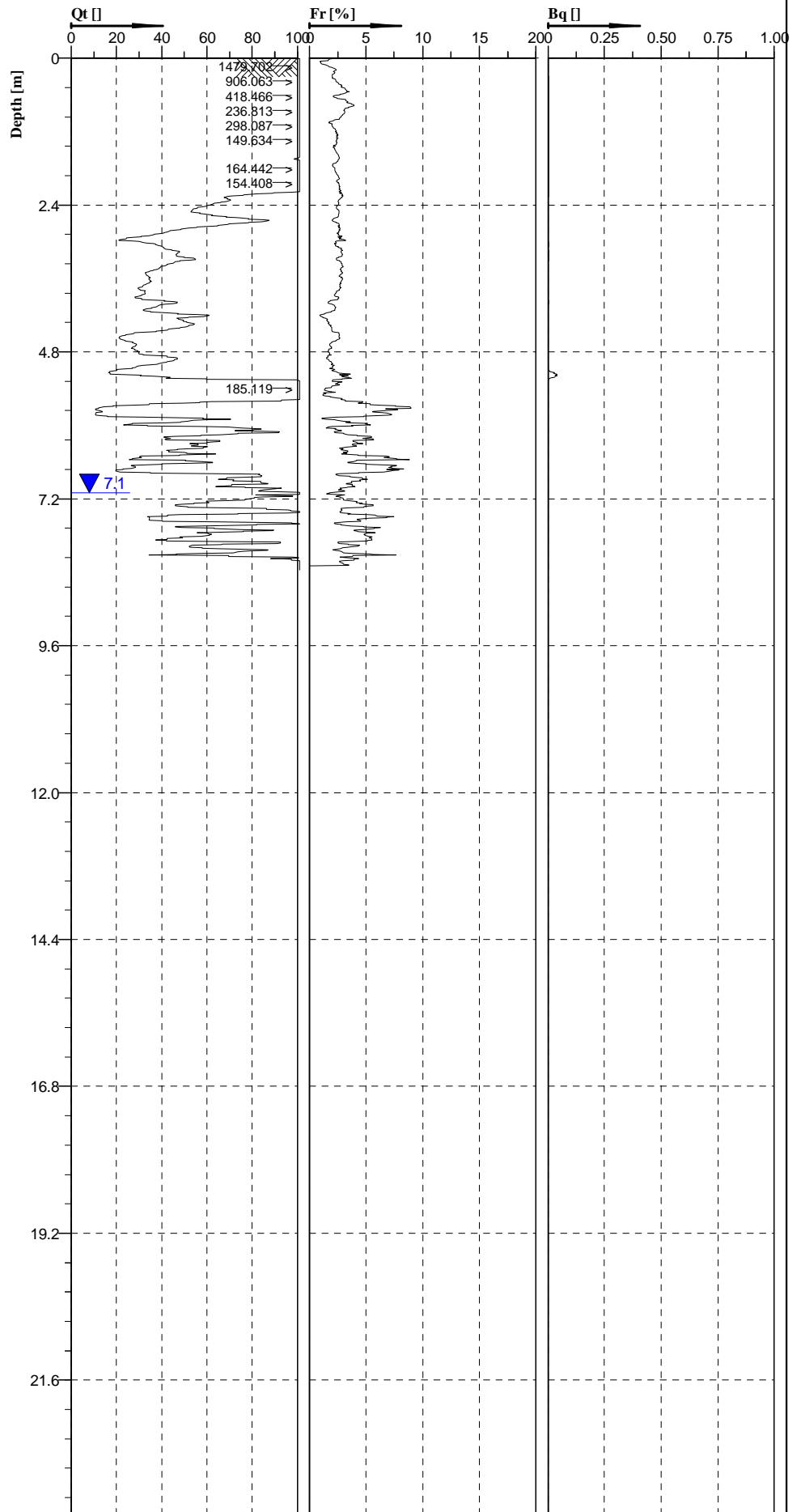


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298604 m, Y: 6176576 m	Ground level: 10.11	Test no: CPT22
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT22
Data provided by Insitu Geotech Services Pty Ltd			File: CPT22.cpd

**Classification by
Robertson 1986**

- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty sand to sandy silt (7)
- Very stiff fine grained (11)
- Very stiff fine grained (11)
- Sandy silt to clayey silt (6)
- Sand to clayey sand (12)

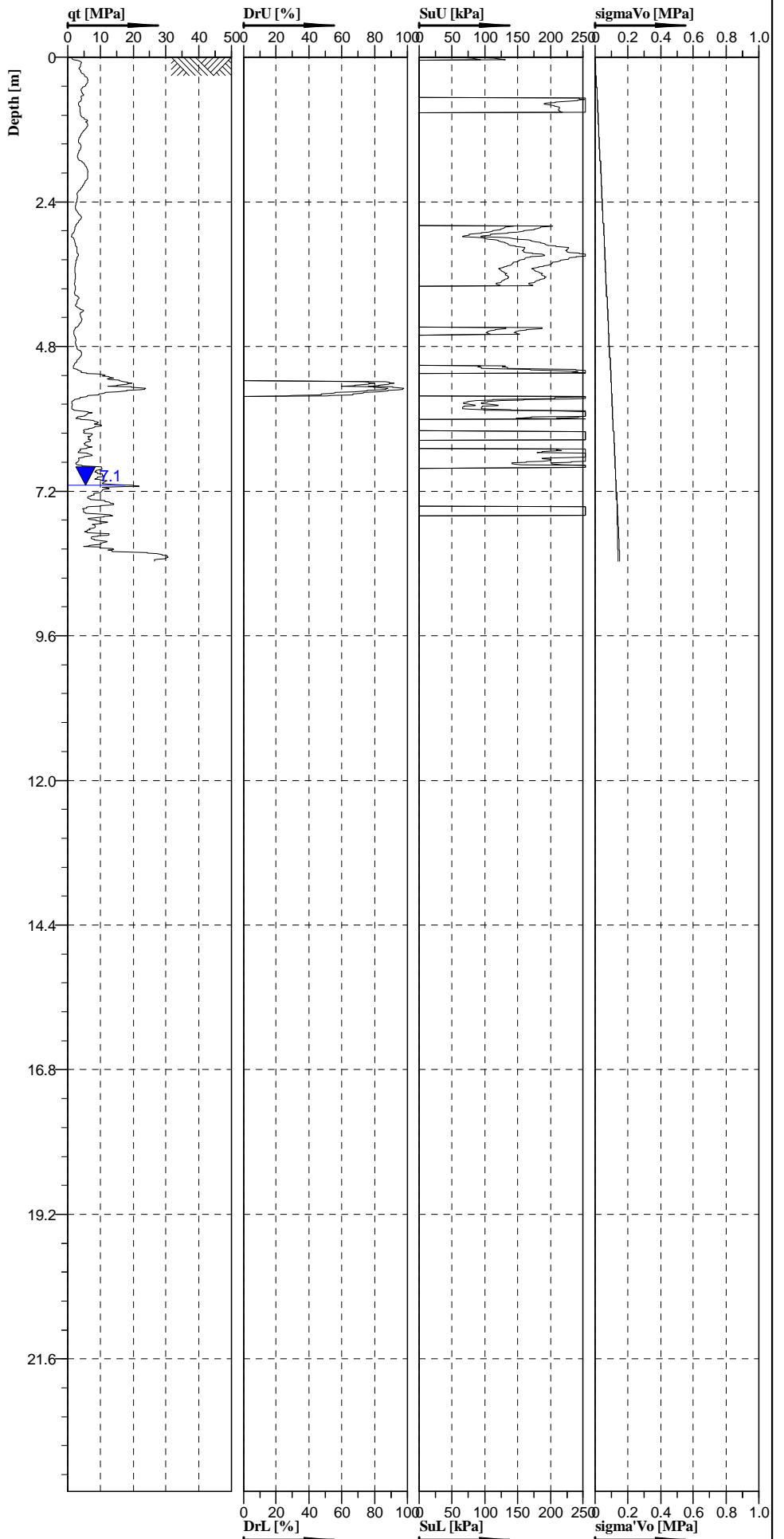


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298604 m, Y: 6176576 m	Ground level: 10.11	Test no: CPT22
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT22
Data provided by Insitu Geotech Services Pty Ltd			File: CPT22.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sand to silty sand (8)
- Clay (3)
- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty sand to sandy silt (7)
- Very stiff fine grained (11)
- Very stiff fine grained (11)
- Sandy silt to clayey silt (6)
- Sand to clayey sand (12)

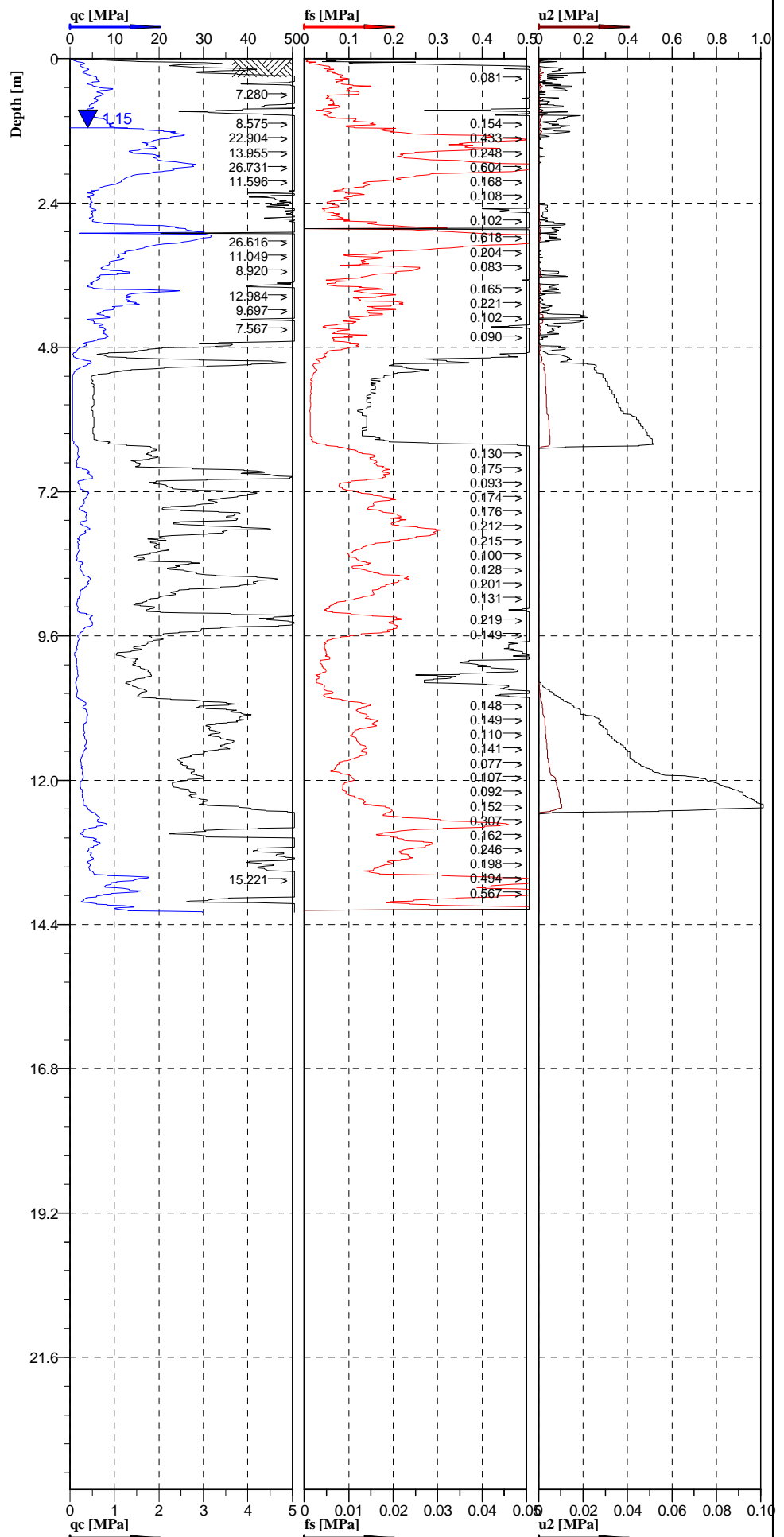


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298604 m, Y: 6176576 m	Ground level: 10.11	Test no: CPT22
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 10/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT22
Data provided by Insitu Geotech Services Pty Ltd			File: CPT22.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sand (9)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand (9)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Very stiff fine grained (11)

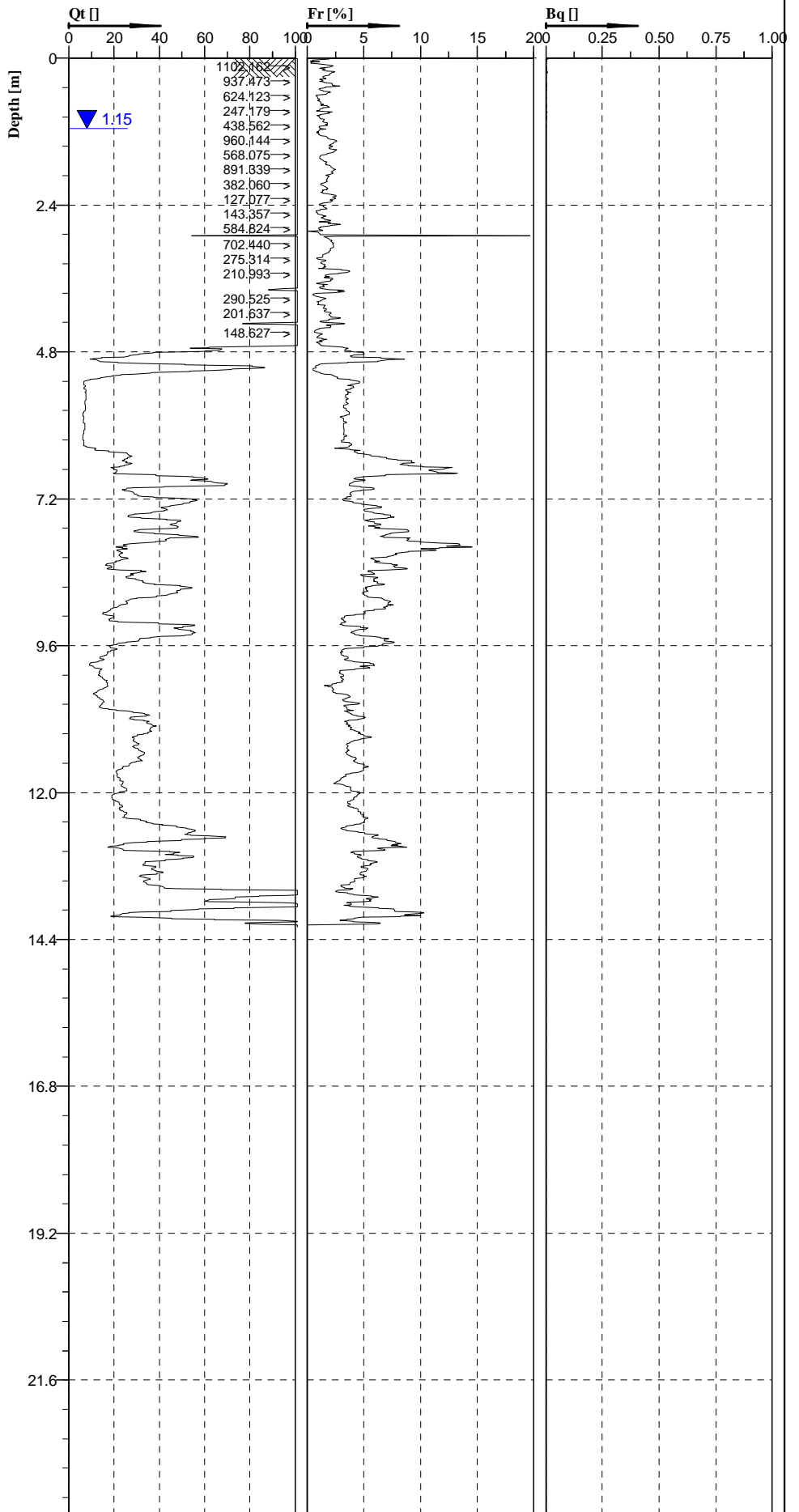


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297824 m, Y: 6176645 m	Ground level: 4.76	Test no: CPT23
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT23
Data provided by Insitu Geotech Services Pty Ltd			File: CPT23.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sand (9)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand (9)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Very stiff fine grained (11)

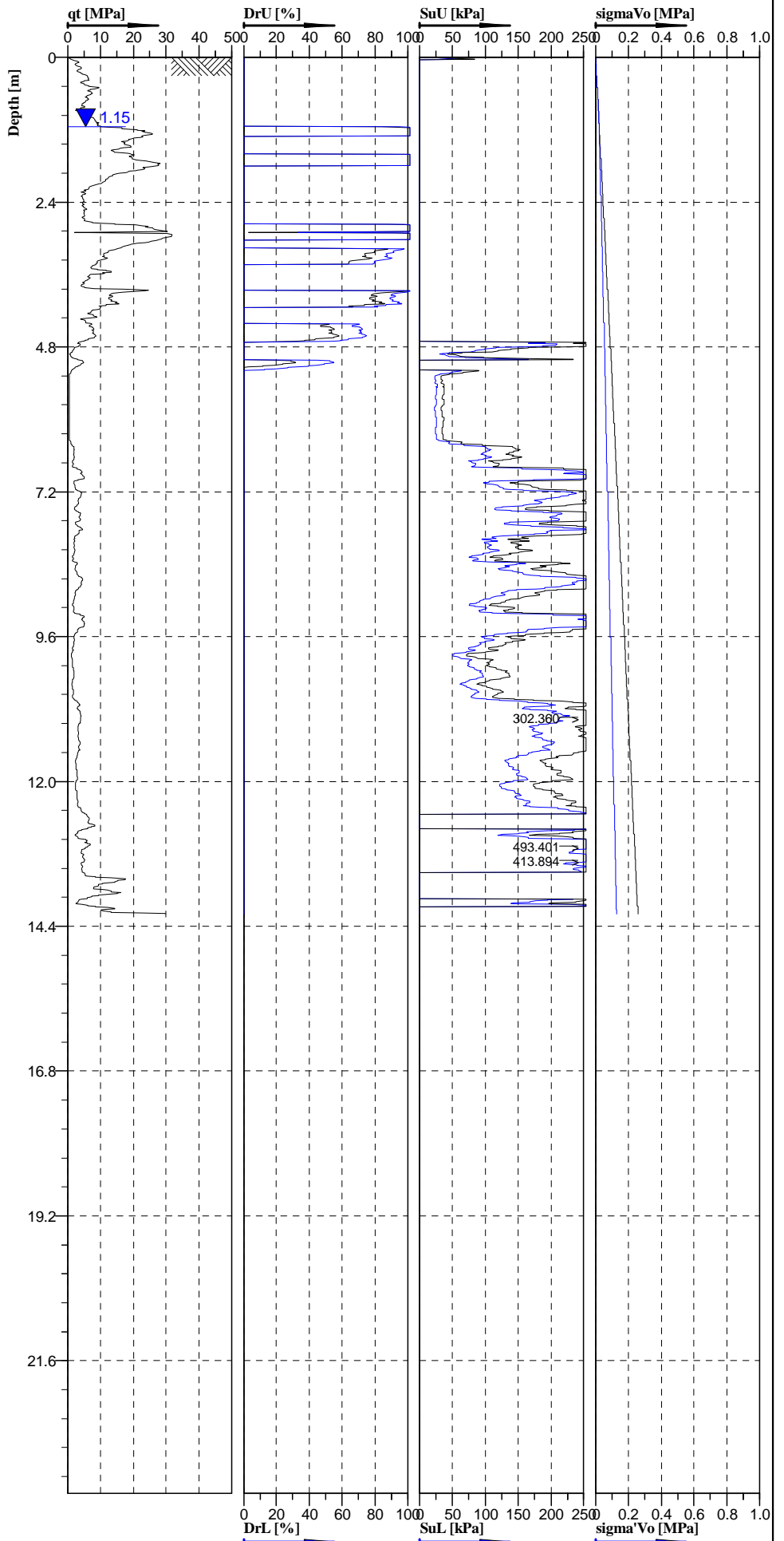


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297824 m, Y: 6176645 m	Ground level: 4.76	Test no: CPT23
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT23
Data provided by Insitu Geotech Services Pty Ltd			File: CPT23.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Sand (9)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand (9)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Clay (3)
- Sand to silty sand (8)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clay (3)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Silty clay to clay (4)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Very stiff fine grained (11)

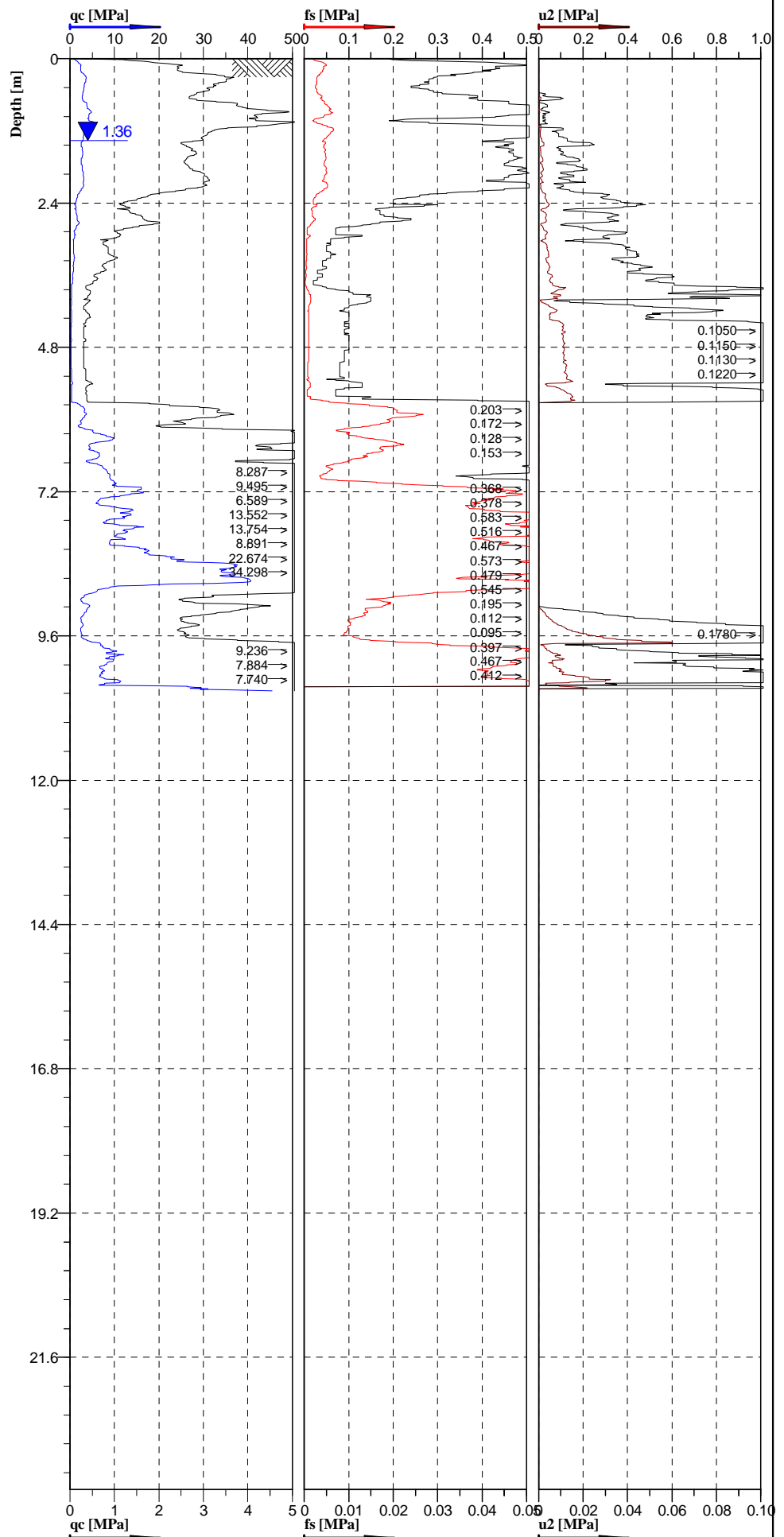


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297824 m, Y: 6176645 m	Ground level: 4.76	Test no: CPT23
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 15/6/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT23
Data provided by Insitu Geotech Services Pty Ltd			File: CPT23.cpd

Classification by
Robertson 1986

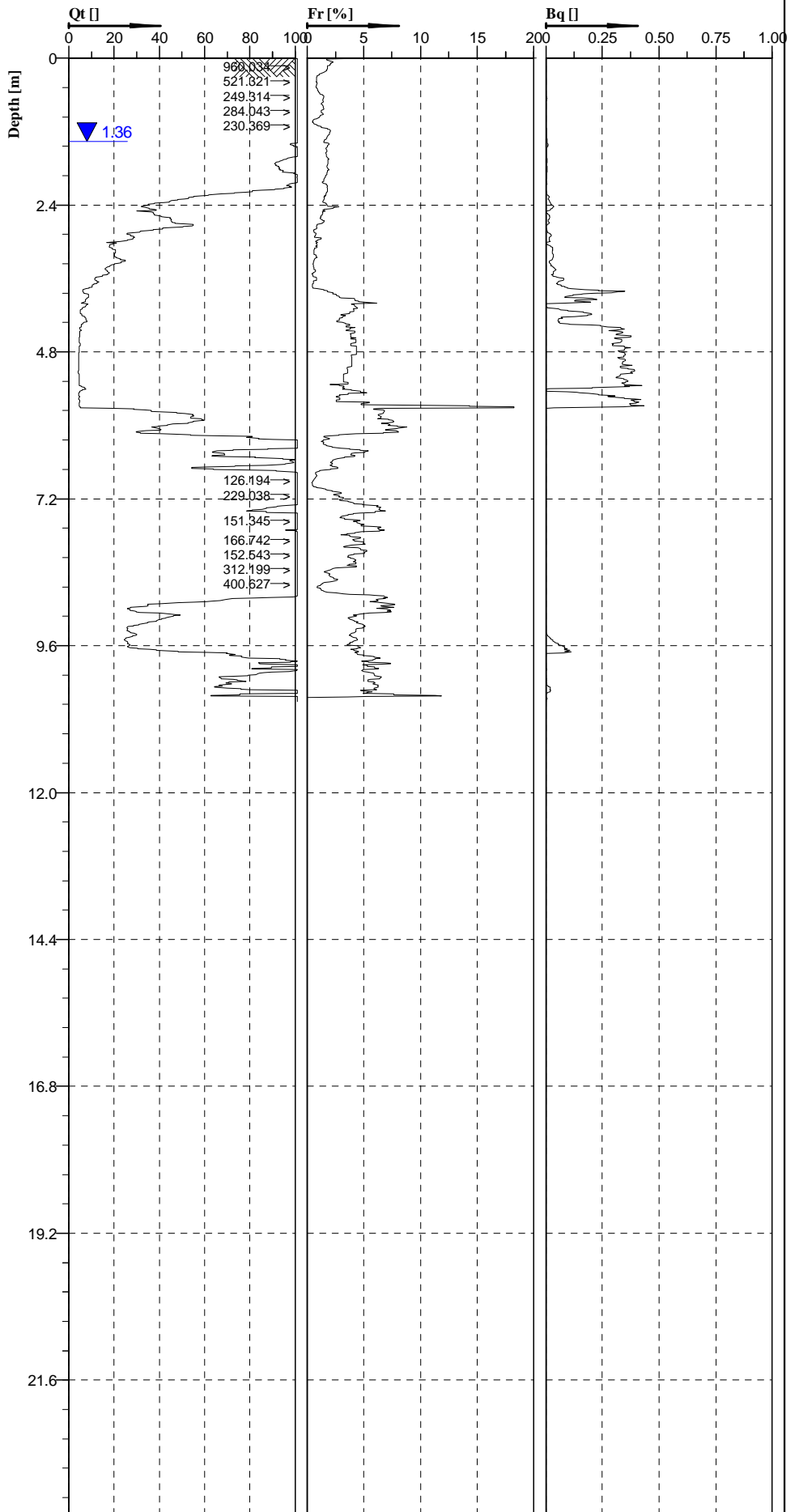
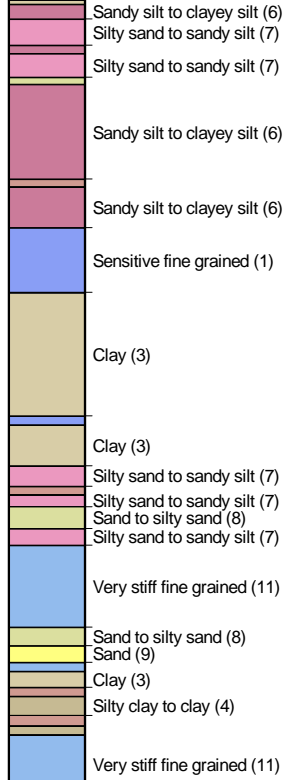
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sensitive fine grained (1)
- Clay (3)
- Clay (3)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Very stiff fine grained (11)
- Sand to silty sand (8)
- Sand (9)
- Clay (3)
- Silty clay to clay (4)
- Very stiff fine grained (11)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297546 m, Y: 6176624 m	Ground level: 3.35	Test no: CPT24
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT24
Data provided by Insitu Geotech Services Pty Ltd			File: CPT24.cpd

Classification by
Robertson 1986

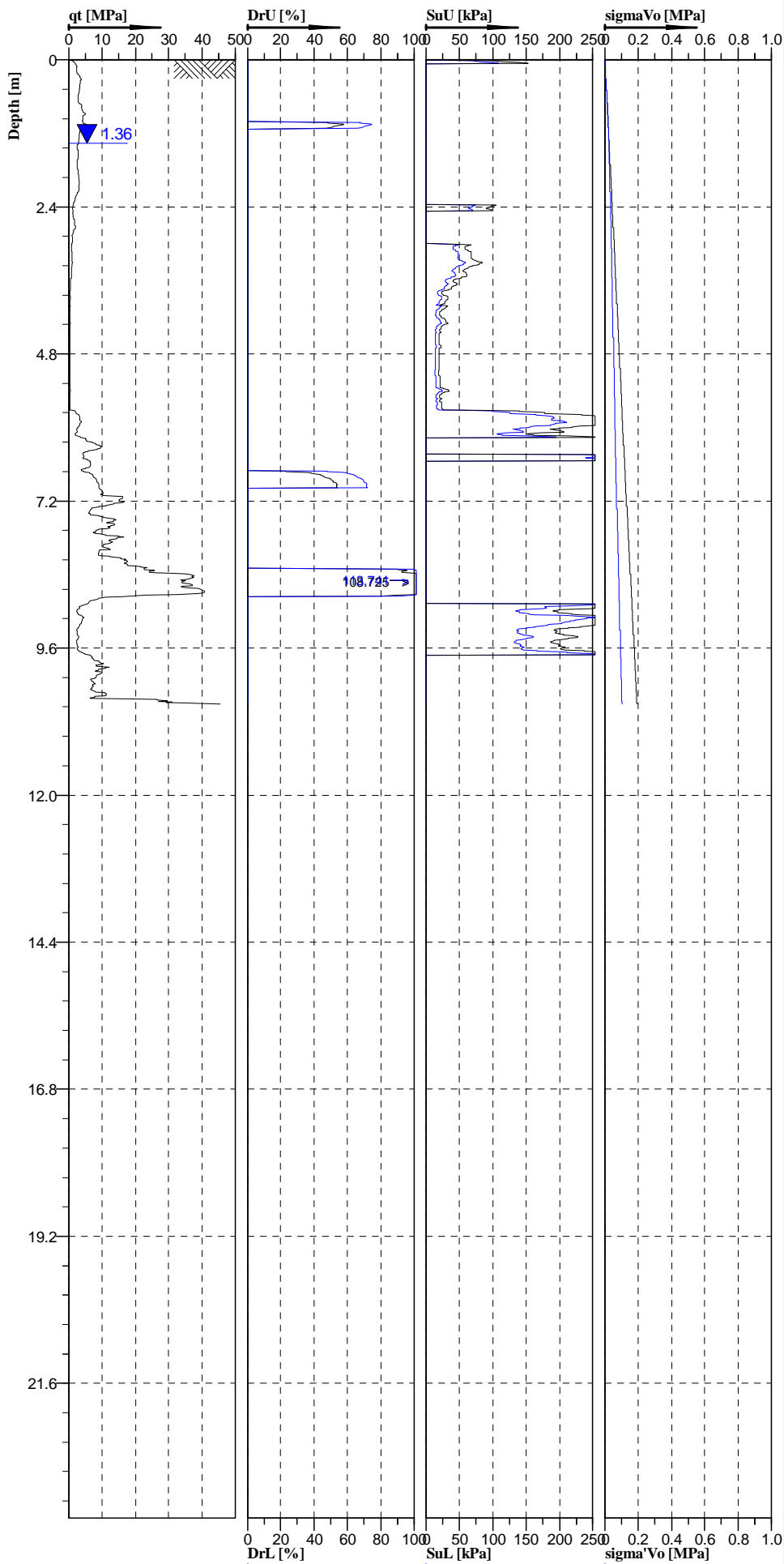


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297546 m, Y: 6176624 m	Ground level: 3.35	Test no: CPT24
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT24
Data provided by Insitu Geotech Services Pty Ltd			File: CPT24.cpd

Classification by
Robertson 1986

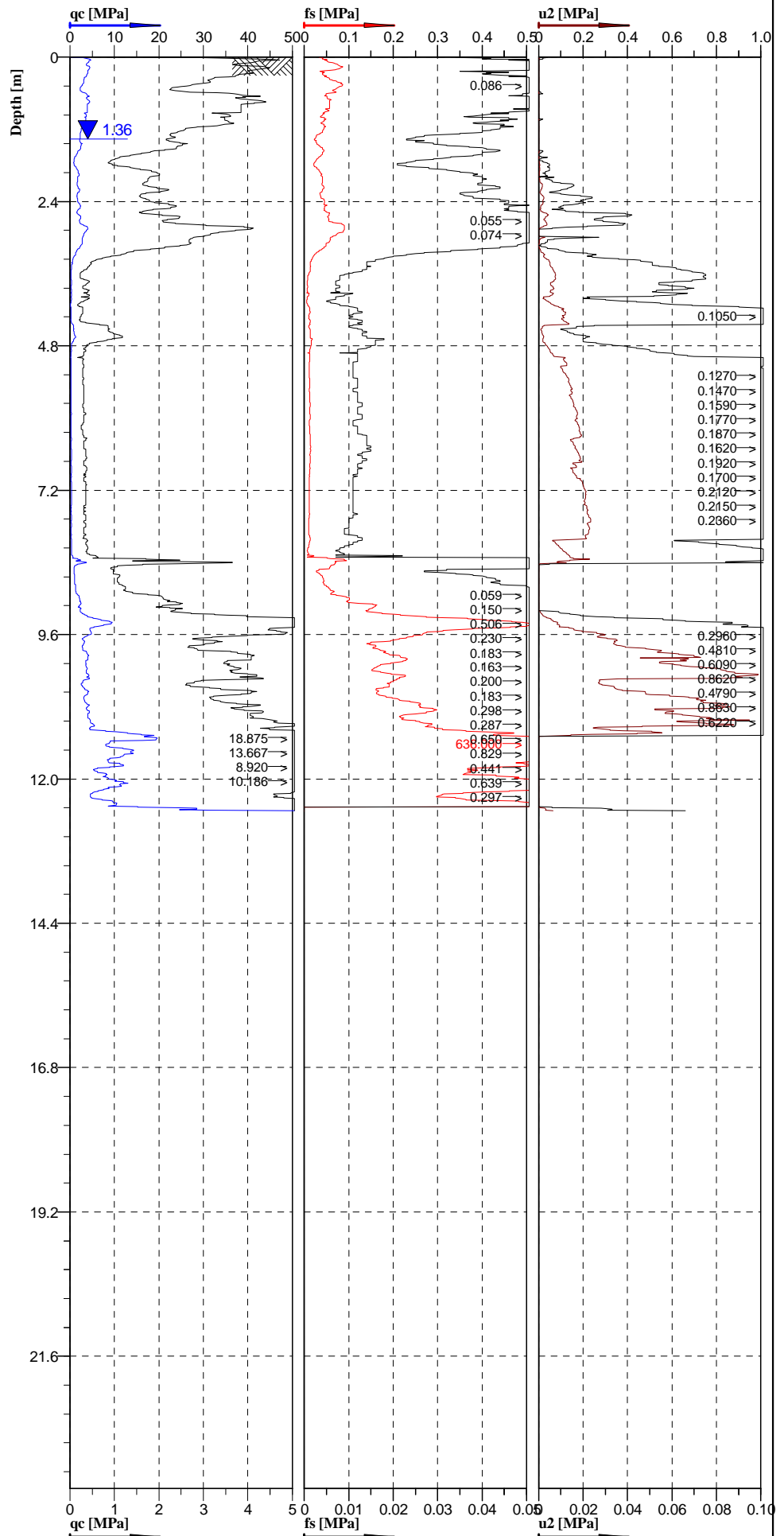
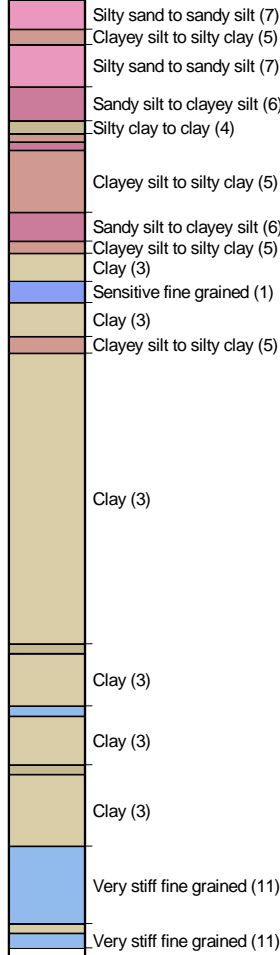
- Sandy silt to clayey silt (6)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Sensitive fine grained (1)
- Clay (3)
- Clay (3)
- Silty sand to sandy silt (7)
- Silty sand to sandy silt (7)
- Sand to silty sand (8)
- Silty sand to sandy silt (7)
- Very stiff fine grained (11)
- Sand to silty sand (8)
- Sand (9)
- Clay (3)
- Silty clay to clay (4)
- Very stiff fine grained (11)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297546 m, Y: 6176624 m	Ground level: 3.35	Test no: CPT24
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT24
Data provided by Insitu Geotech Services Pty Ltd			File: CPT24.cpd

Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297770 m, Y: 6176589 m	Ground level: 3.64	Test no: CPT25
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT25
Data provided by Insitu Geotech Services Pty Ltd			File: CPT25.cpd

**Classification by
Robertson 1986**

- Silty sand to sandy silt (7)
- Clayey silt to silty clay (5)
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Sensitive fine grained (1)
- Clay (3)
- Clayey silt to silty clay (5)

Clay (3)

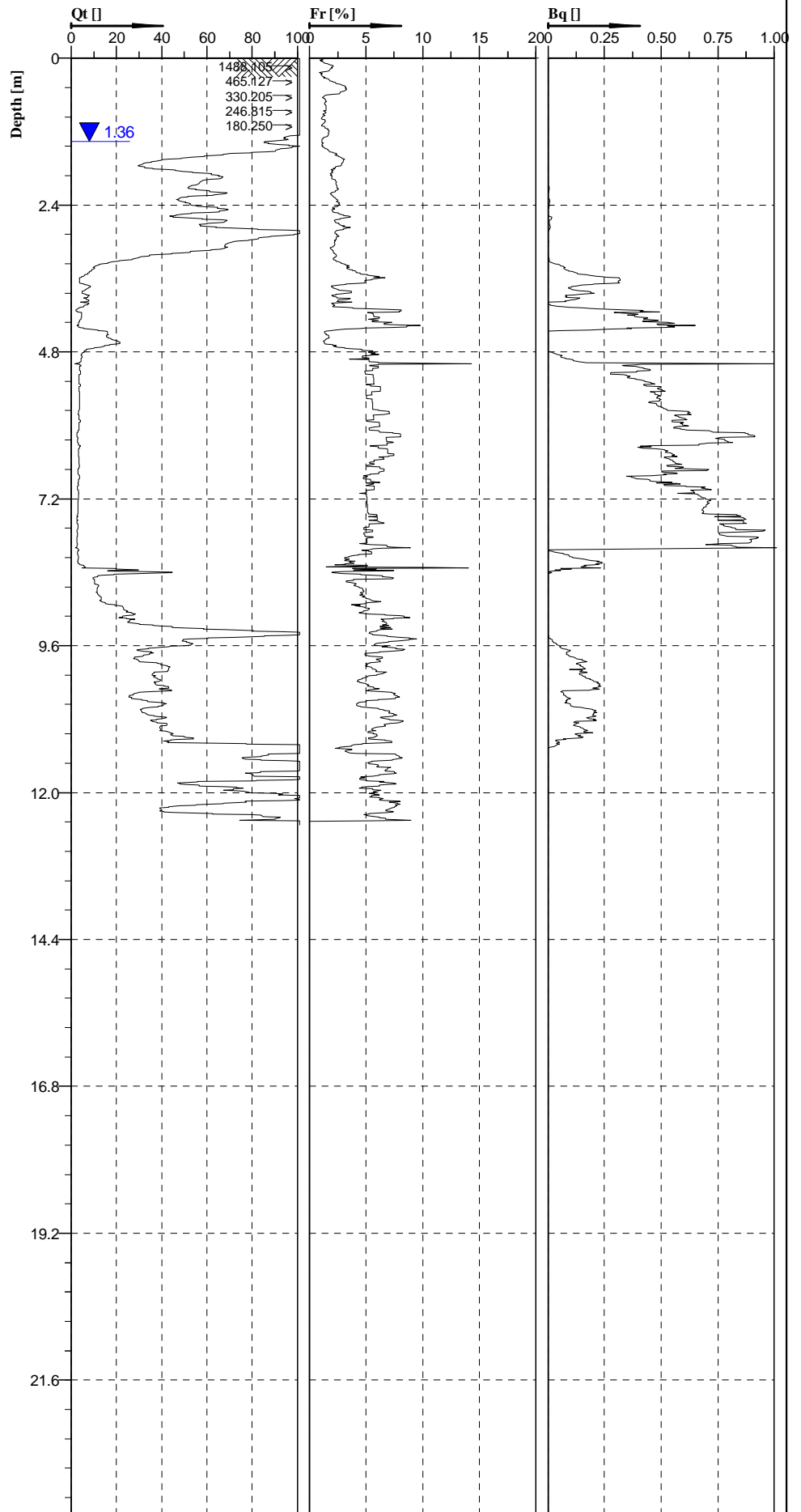
Clay (3)

Clay (3)

Clay (3)

Very stiff fine grained (11)

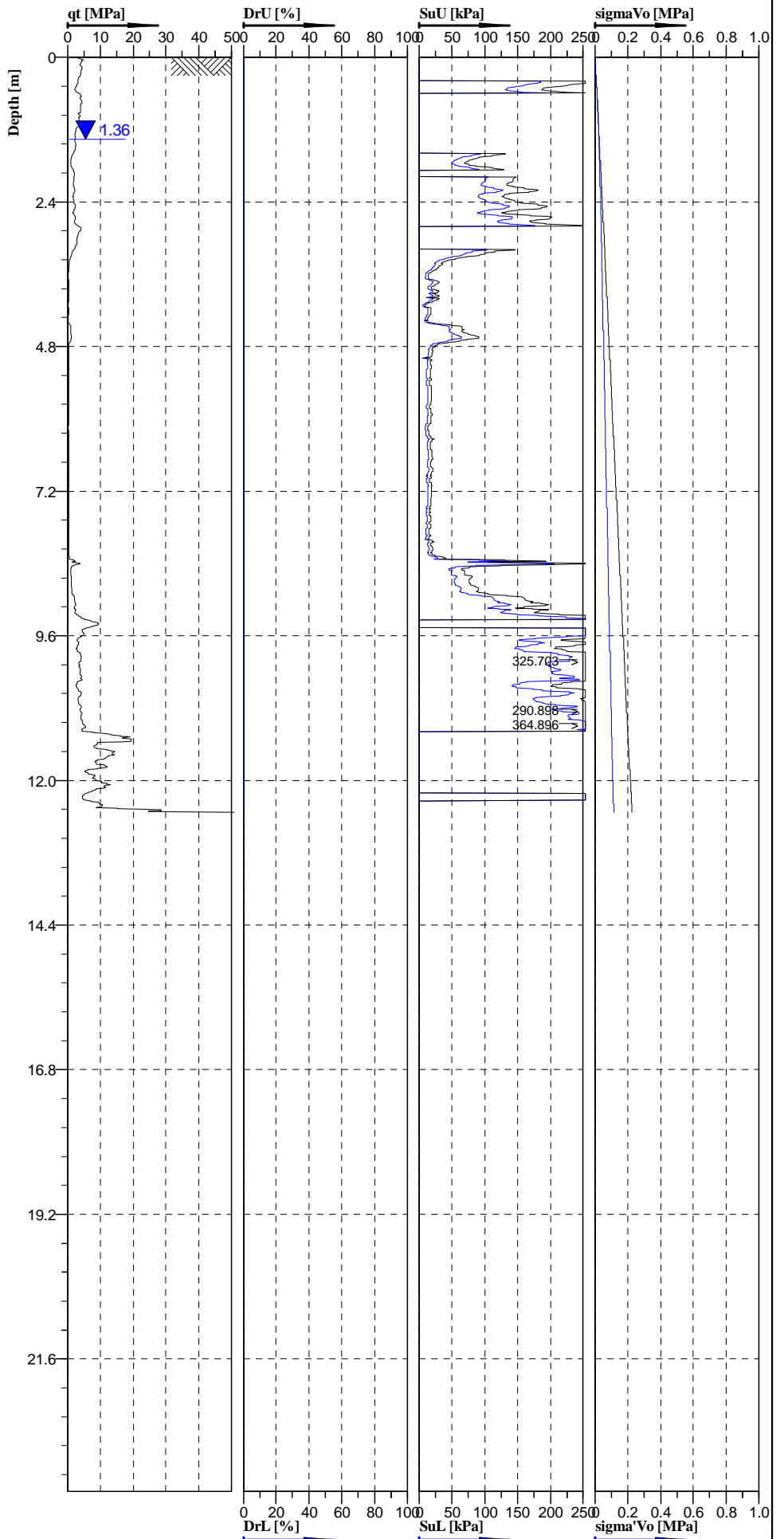
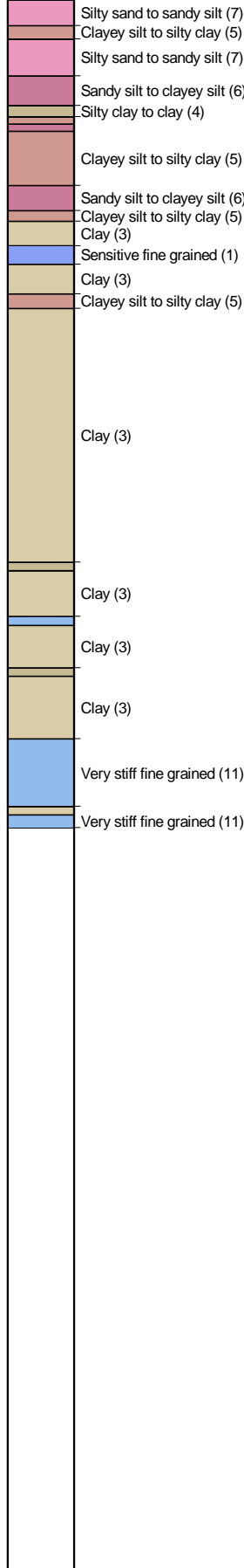
Very stiff fine grained (11)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297770 m, Y: 6176589 m	Ground level: 3.64	Test no: CPT25
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT25
Data provided by Insitu Geotech Services Pty Ltd			File: CPT25.cpd

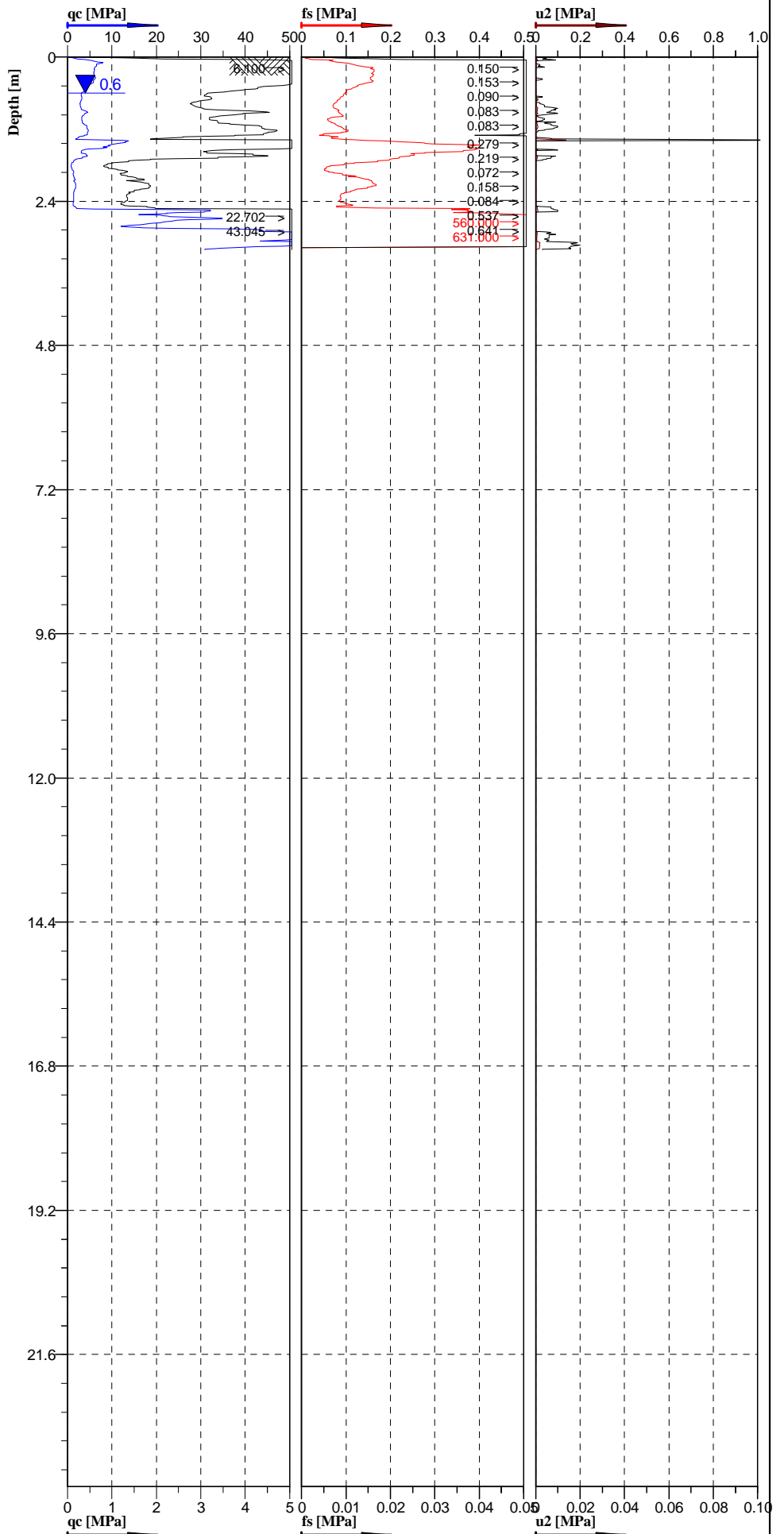
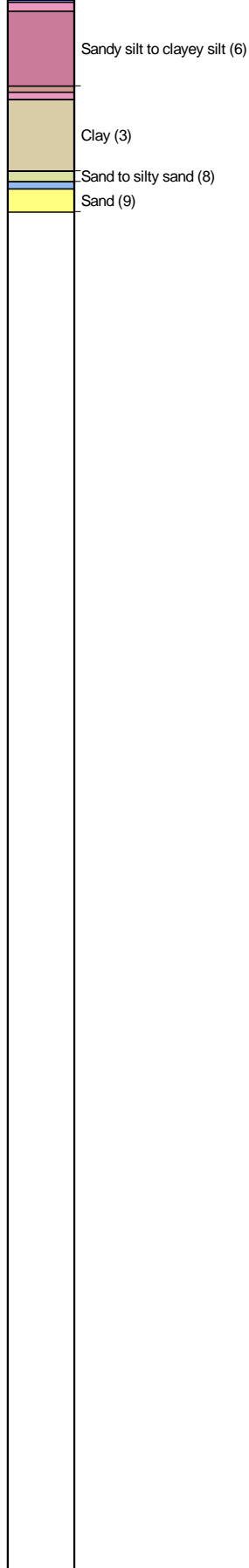
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297770 m, Y: 6176589 m	Ground level: 3.64	Test no: CPT25
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT25
Data provided by Insitu Geotech Services Pty Ltd			File: CPT25.cpd

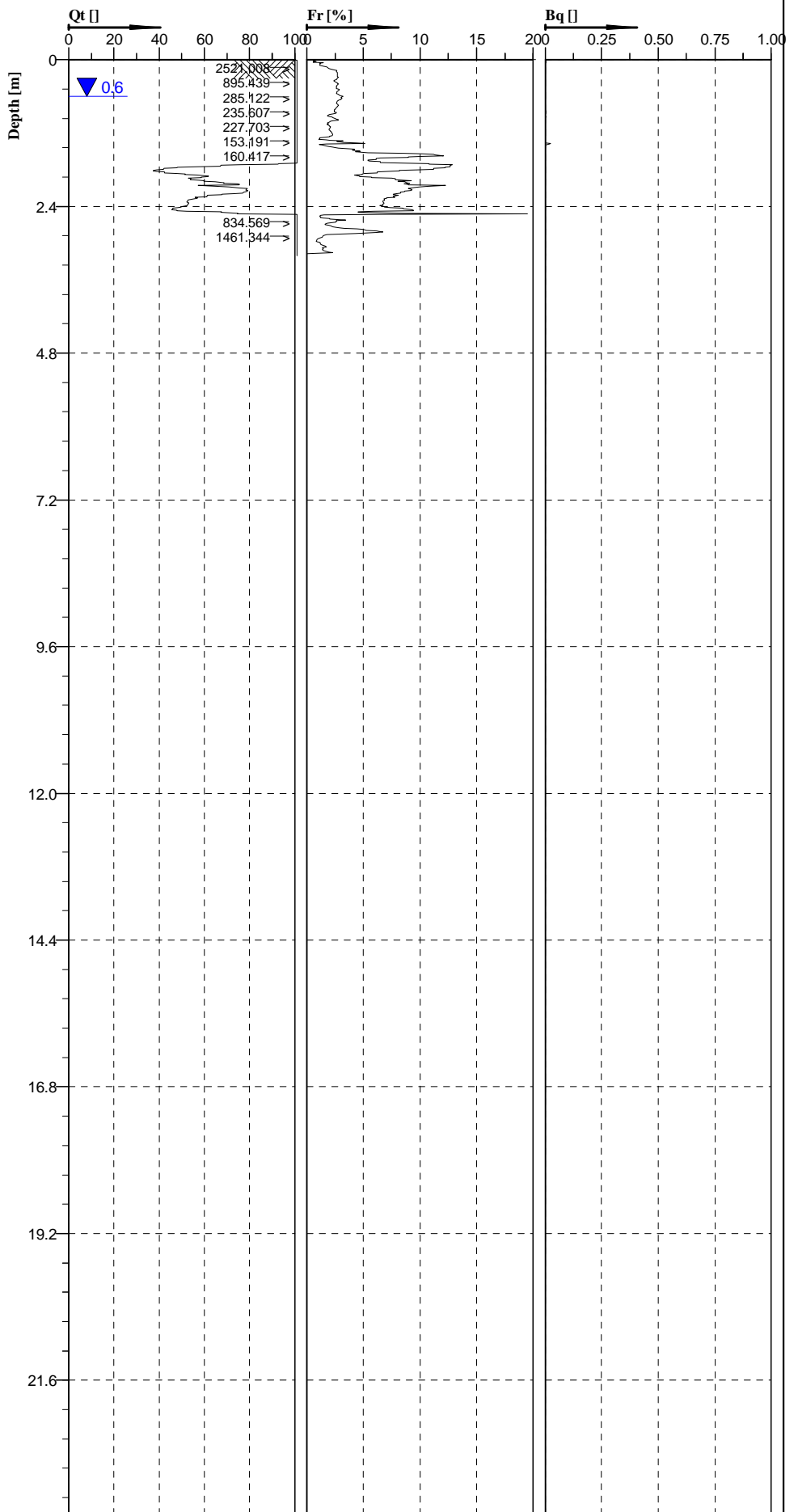
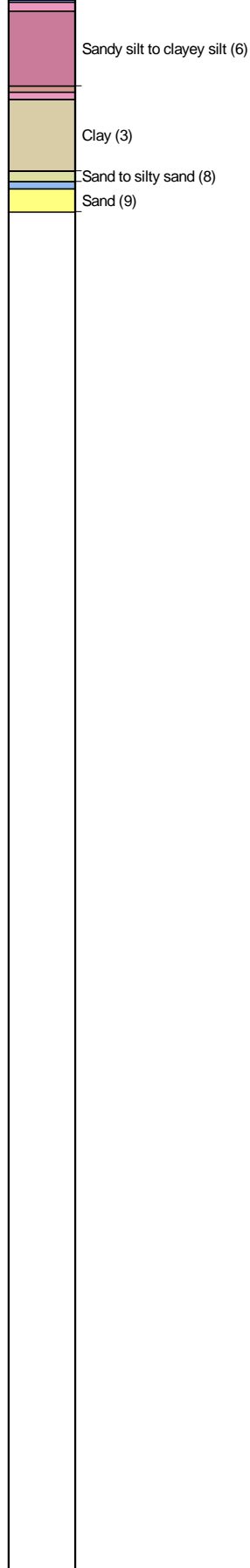
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297513 m, Y: 6176372 m	Ground level: 3.22	Test no: CPT26
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT26
Data provided by Insitu Geotech Services Pty Ltd			File: CPT26.cpd

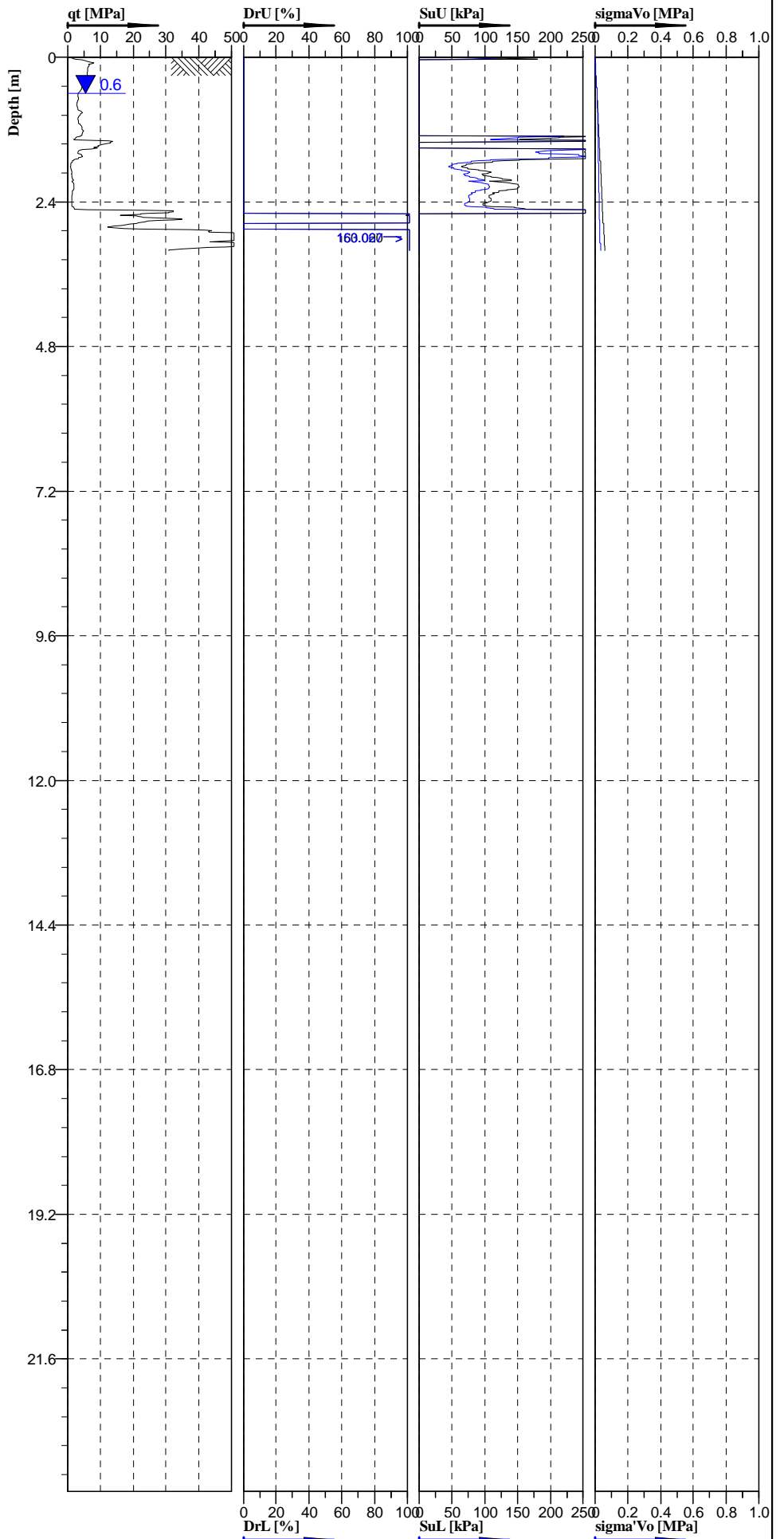
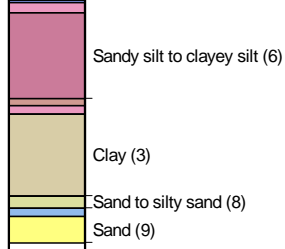
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297513 m, Y: 6176372 m	Ground level: 3.22	Test no: CPT26
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT26
Data provided by Insitu Geotech Services Pty Ltd			File: CPT26.cpd

Classification by
Robertson 1986

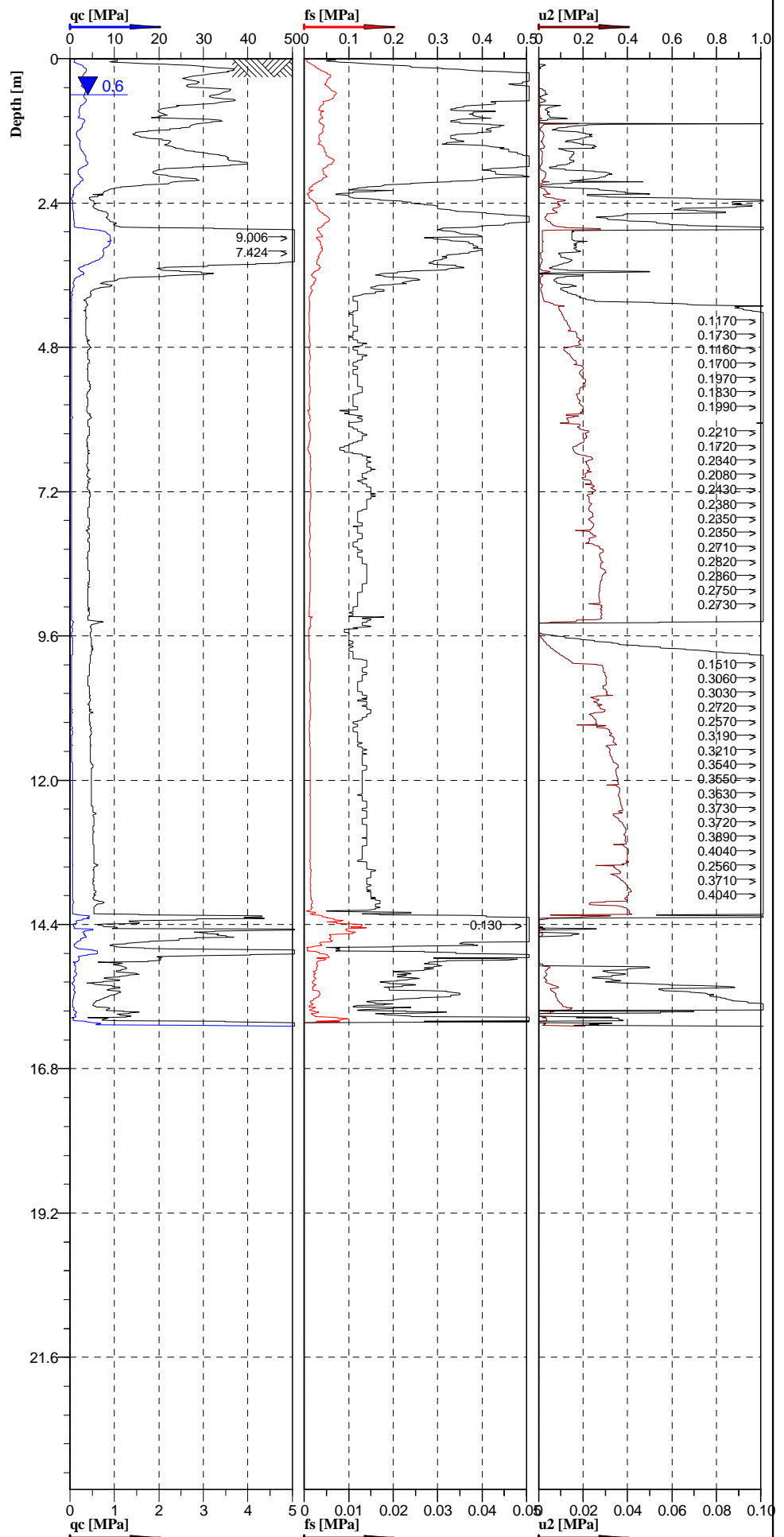


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297513 m, Y: 6176372 m	Ground level: 3.22	Test no: CPT26
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT26
Data provided by Insitu Geotech Services Pty Ltd			File: CPT26.cpd

Classification by
Robertson 1986

- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Sand (9)
- Sand to silty sand (8)
- Clayey silt to silty clay (5)

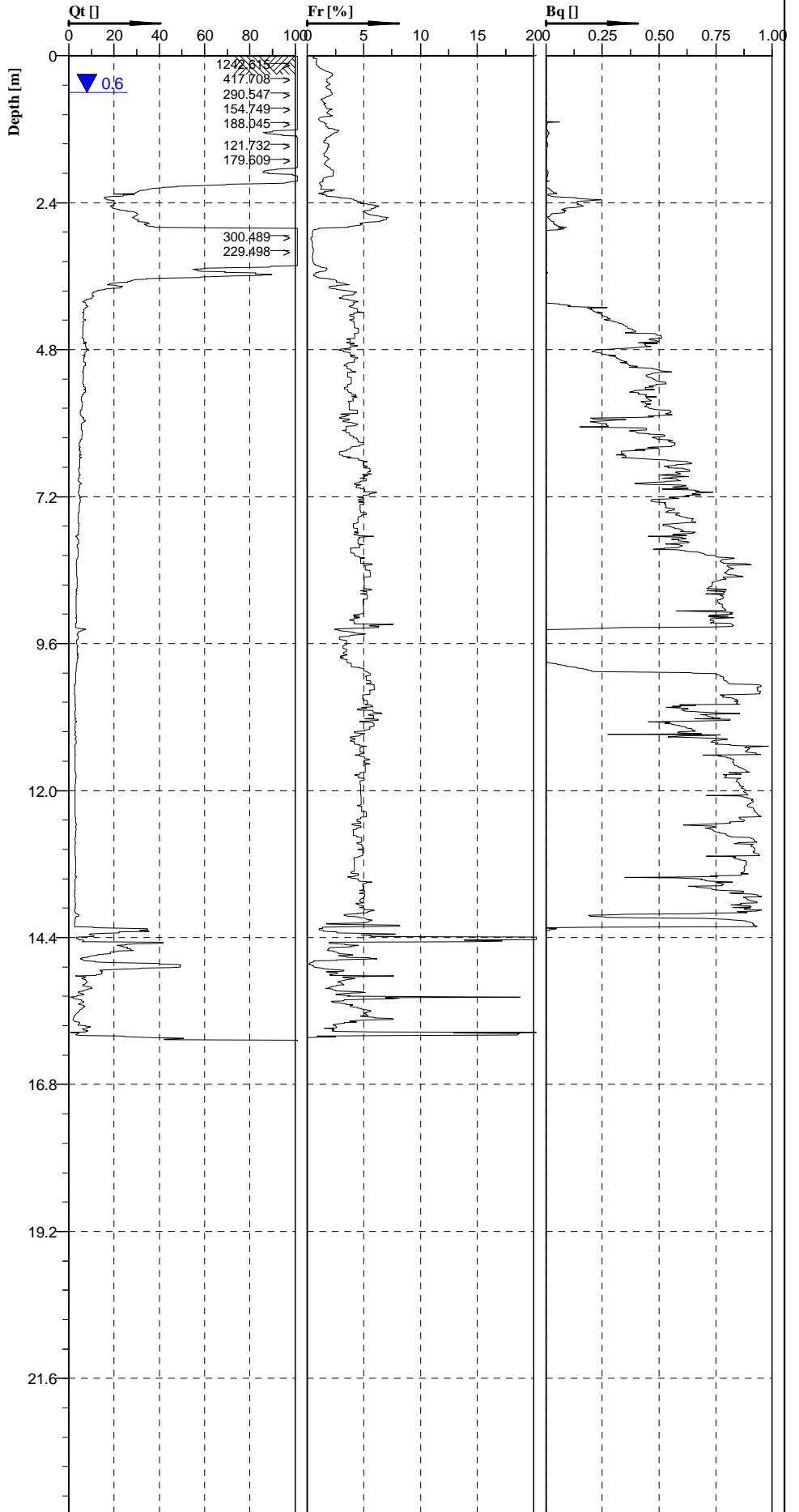


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297647 m, Y: 6176308 m	Ground level: 3.1	Test no: CPT27
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT27
Data provided by Insitu Geotech Services Pty Ltd			File: CPT27.cpd

**Classification by
Robertson 1986**

- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Sand (9)
- Sand to silty sand (8)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Clay (3)
- Clayey silt to silty clay (5)

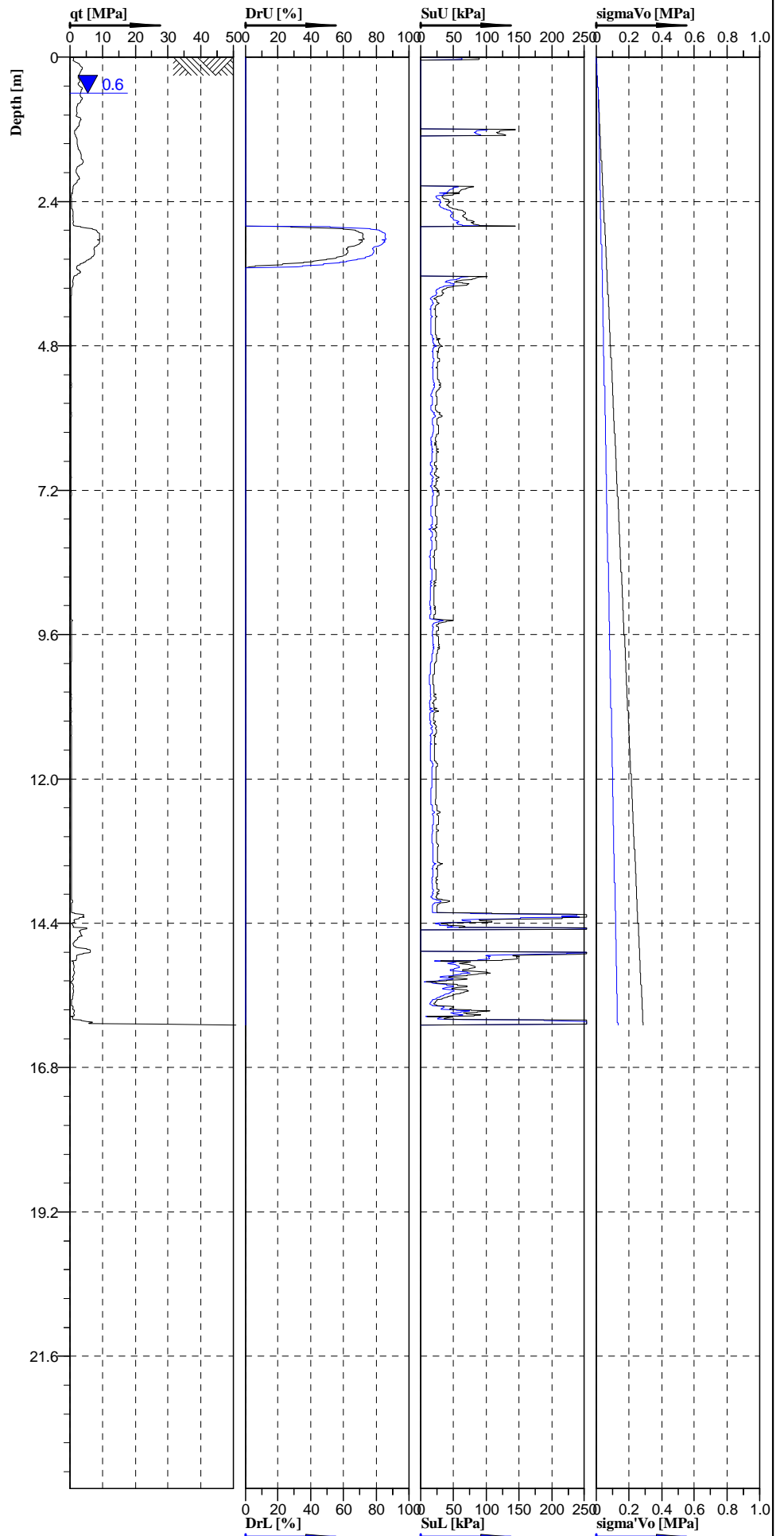


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297647 m, Y: 6176308 m	Ground level: 3.1	Test no: CPT27
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT27
Data provided by Insitu Geotech Services Pty Ltd			File: CPT27.cpd

Classification by
Robertson 1986

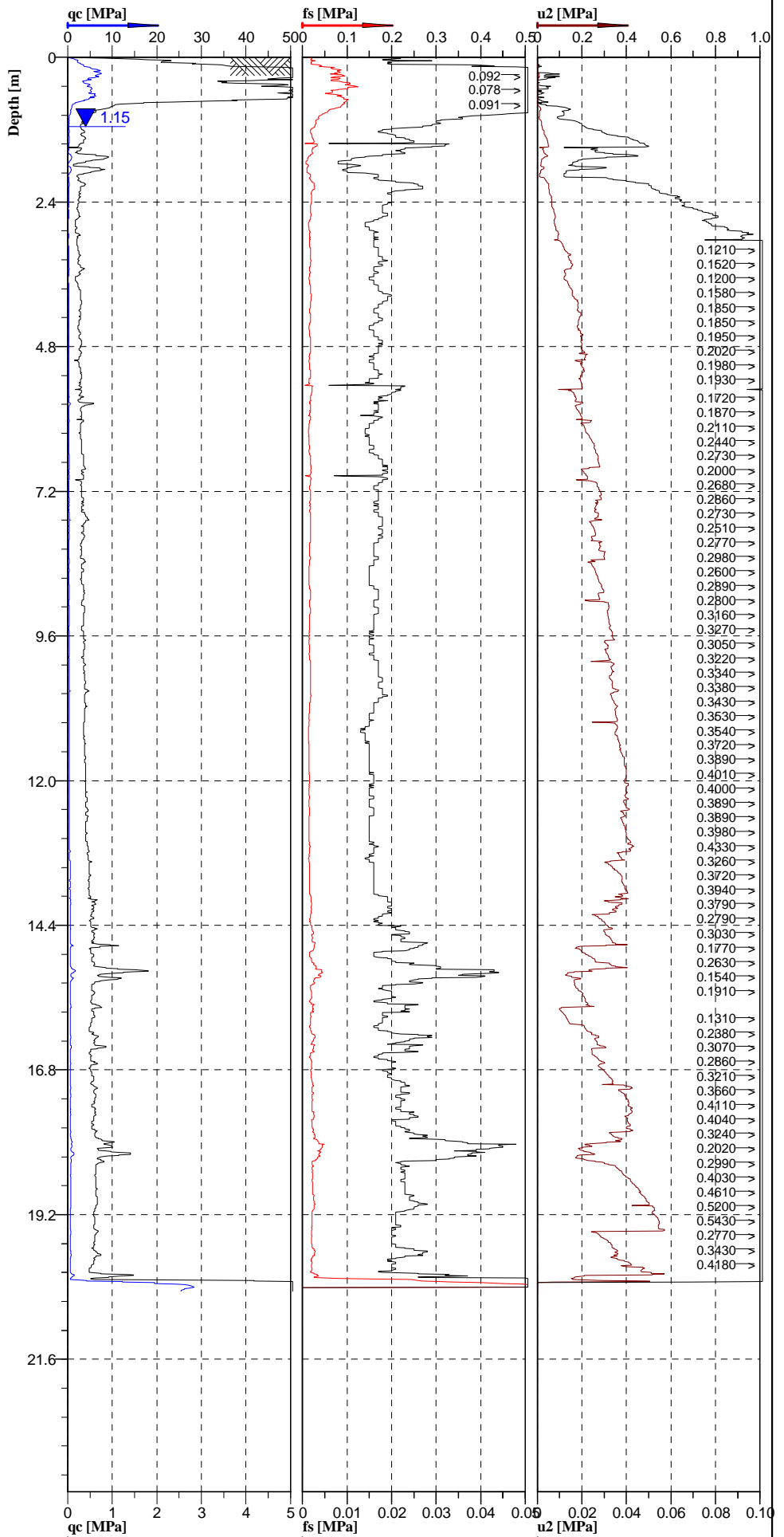
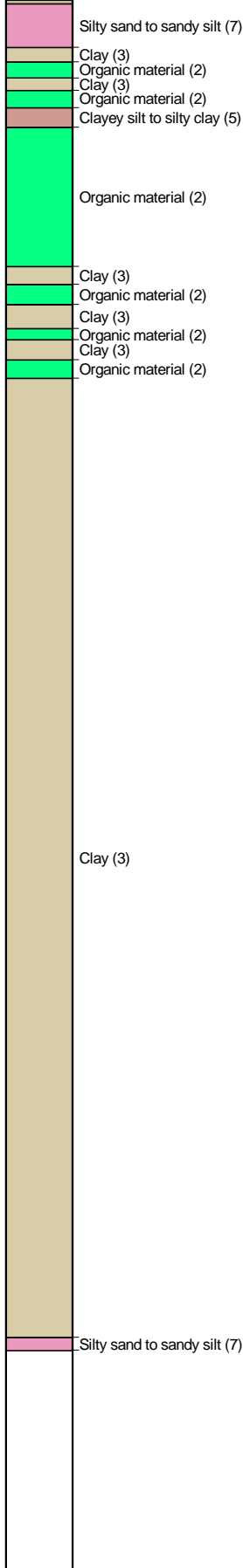
- Silty sand to sandy silt (7)
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clayey silt to silty clay (5)
- Clay (3)
- Sand (9)
- Sand to silty sand (8)
- Clayey silt to silty clay (5)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Clayey silt to silty clay (5)
- Clay (3)
- Clay (3)
- Clayey silt to silty clay (5)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297647 m, Y: 6176308 m	Ground level: 3.1	Test no: CPT27
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 23/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT27
Data provided by Insitu Geotech Services Pty Ltd			File: CPT27.cpd

Classification by
Robertson 1986



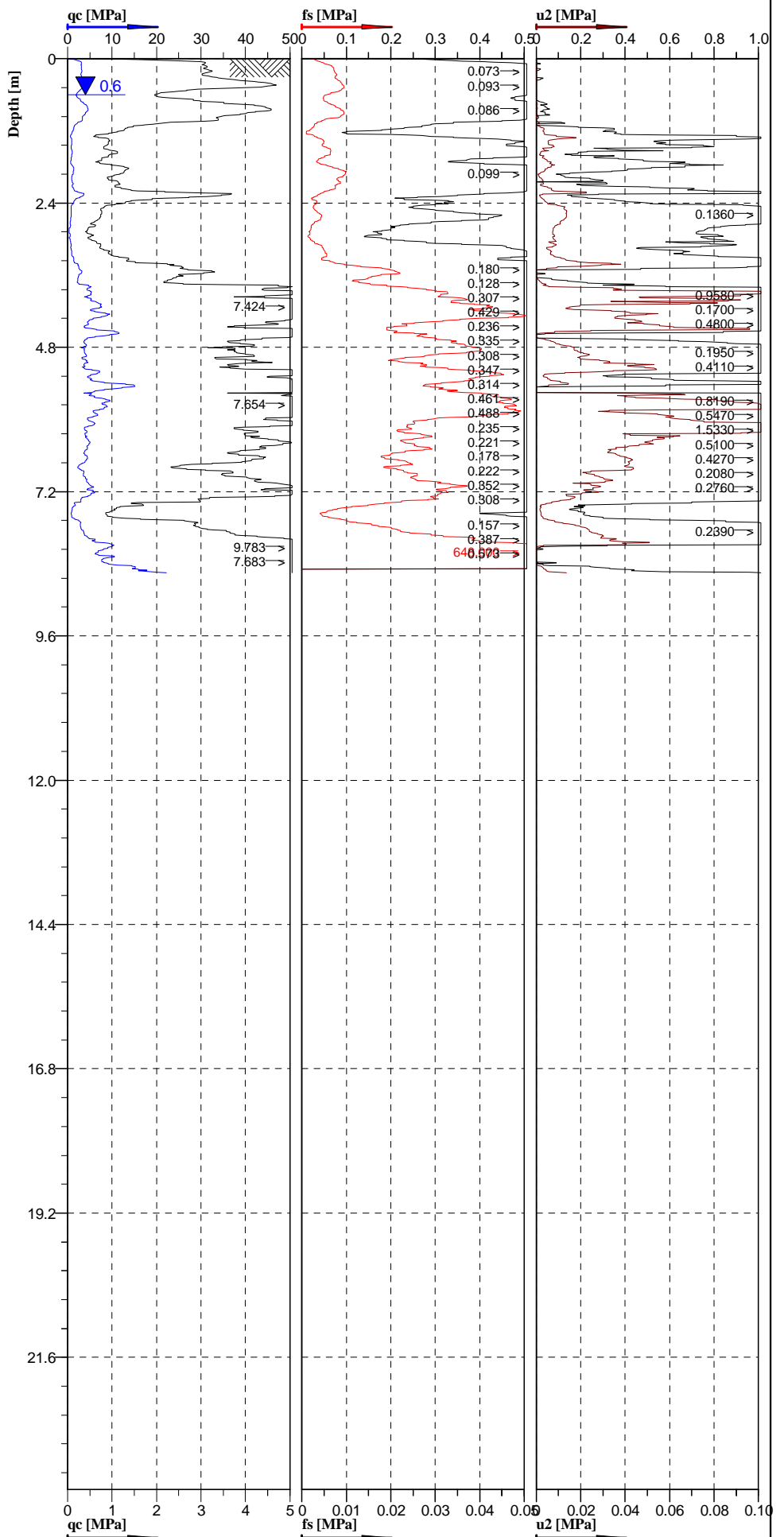
Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 297780 m, Y: 6176306 m	Ground level: 1.44	Test no: CPT28
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT28
Data provided by Insitu Geotech Services Pty Ltd			File: CPT28.cpd

Classification by
Robertson 1986

- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clay (3)
- Clay (3)
- Clay (3)
- Very stiff fine grained (11)
- Clay (3)
- Very stiff fine grained (11)
- Clay (3)
- Very stiff fine grained (11)

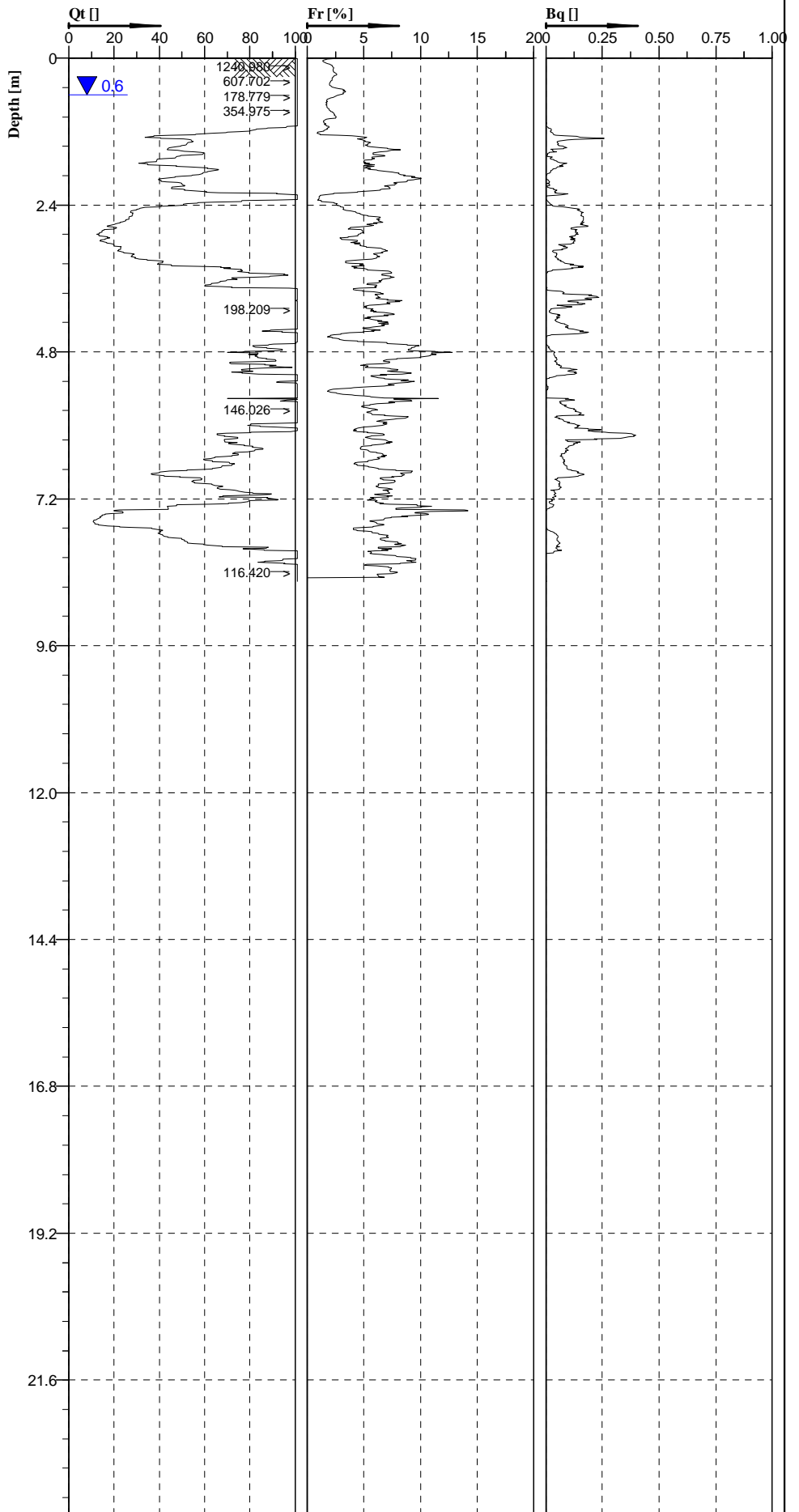
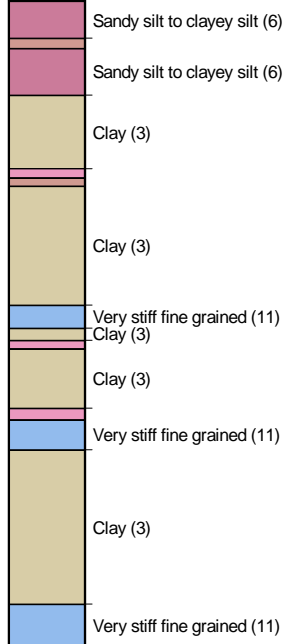


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150



Location: YALLAH, NSW	Position: X: 297577 m, Y: 6176183 m	Ground level: 2.94	Test no: CPT29
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT29
Data provided by Insitu Geotech Services Pty Ltd			File: CPT29.cpd

Classification by
Robertson 1986

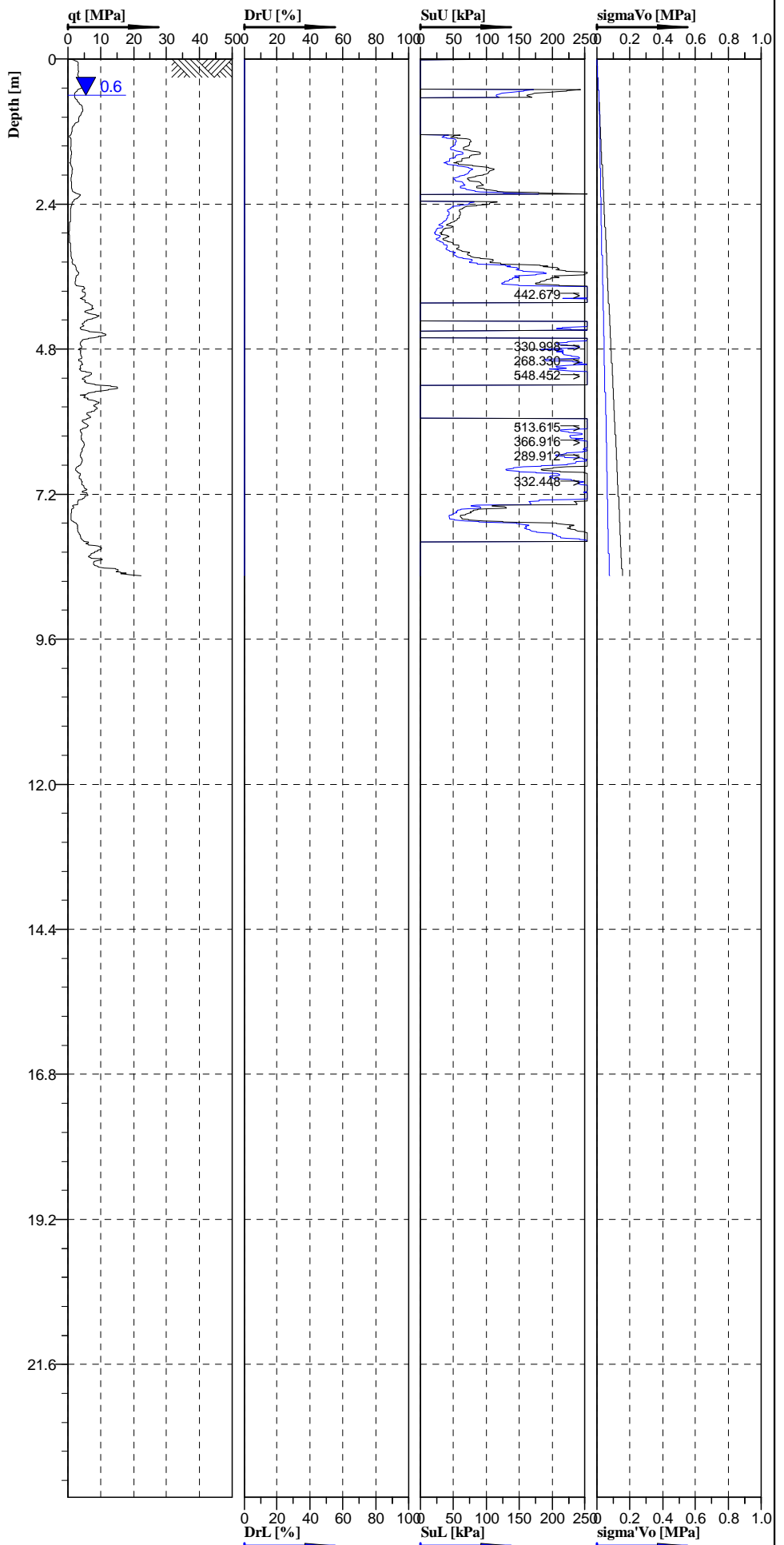


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297577 m, Y: 6176183 m	Ground level: 2.94	Test no: CPT29
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT29
Data provided by Insitu Geotech Services Pty Ltd			File: CPT29.cpd

Classification by
Robertson 1986

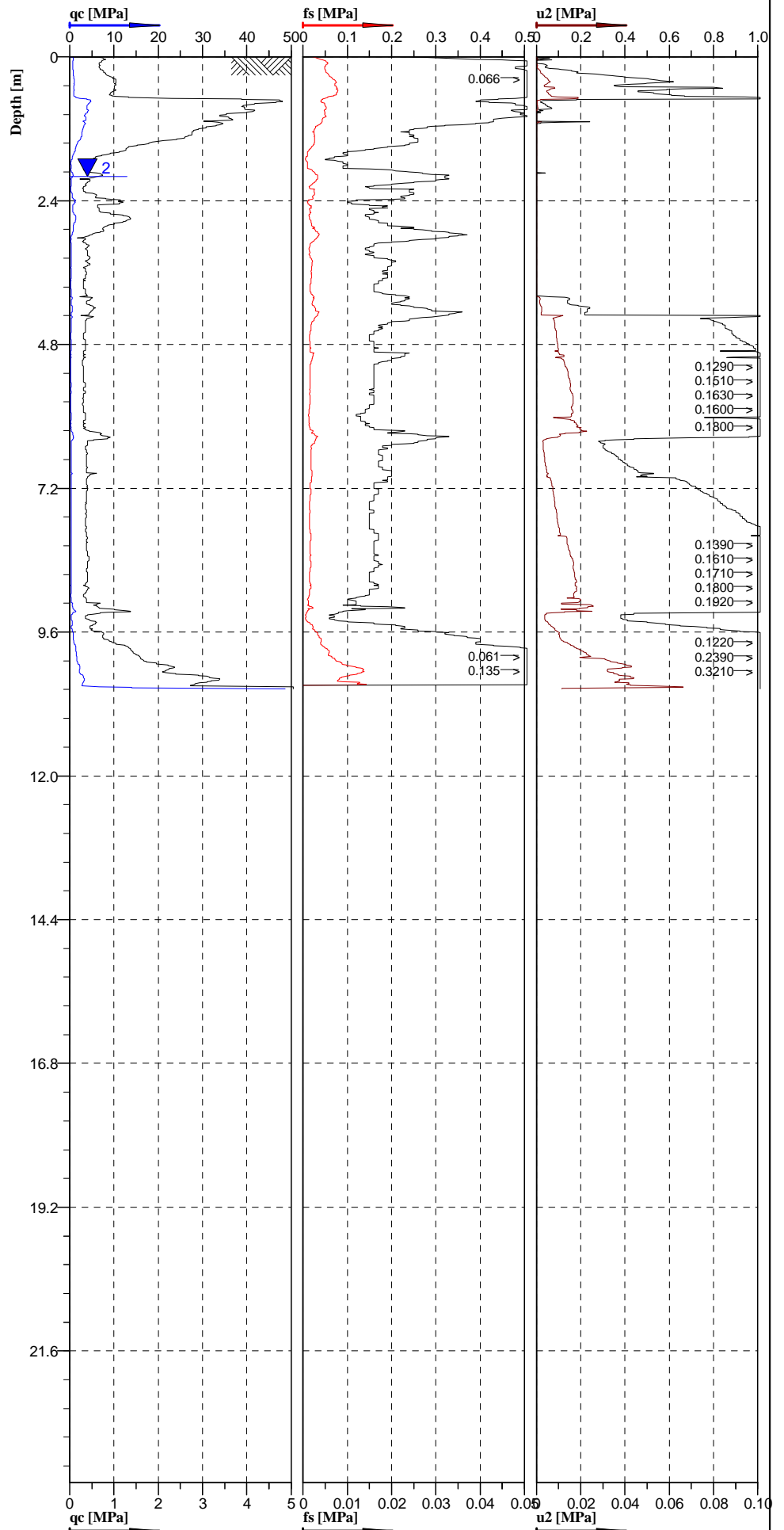
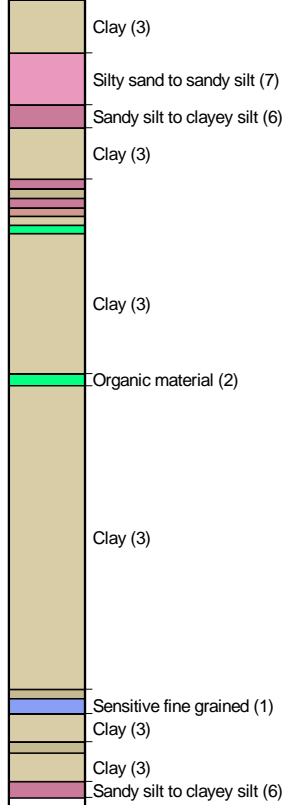
- Sandy silt to clayey silt (6)
- Sandy silt to clayey silt (6)
- Clay (3)
- Clay (3)
- Very stiff fine grained (11)
- Clay (3)
- Very stiff fine grained (11)
- Clay (3)
- Very stiff fine grained (11)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297577 m, Y: 6176183 m	Ground level: 2.94	Test no: CPT29
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 25/2/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT29
Data provided by Insitu Geotech Services Pty Ltd			File: CPT29.cpd

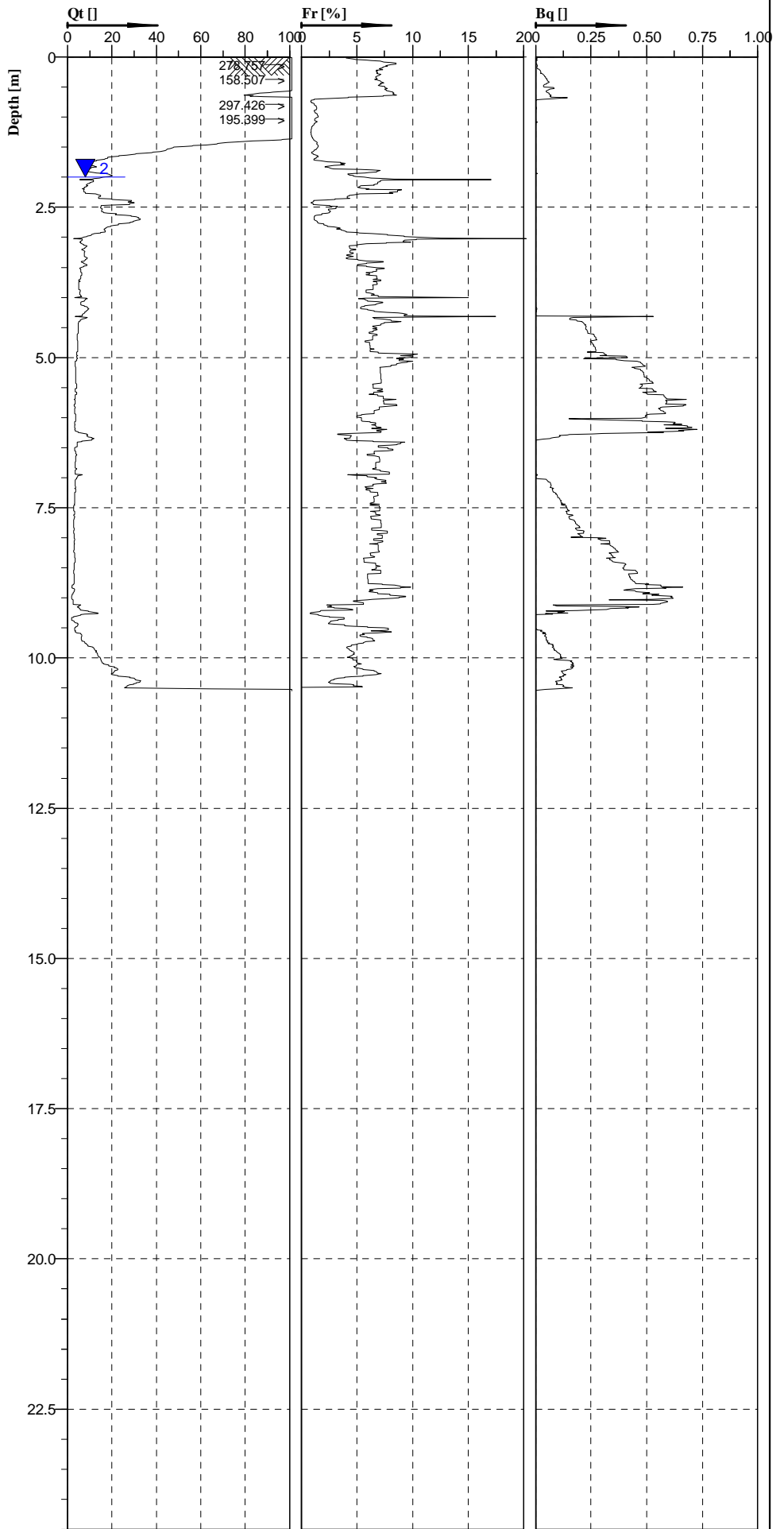
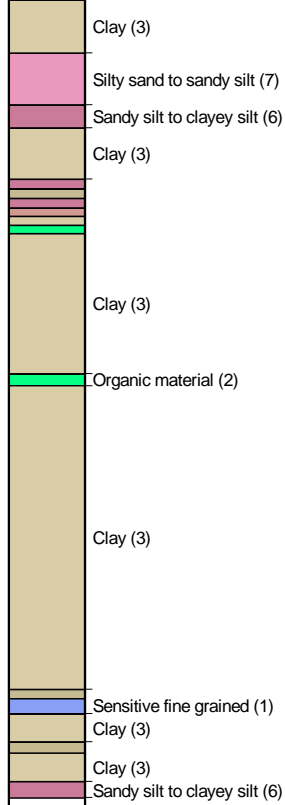
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297979 m, Y: 6176966 m	Ground level: 1.51	Test no: CPT30
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT30
Data provided by Insitu Geotech Services Pty Ltd			File: CPT30.cpd

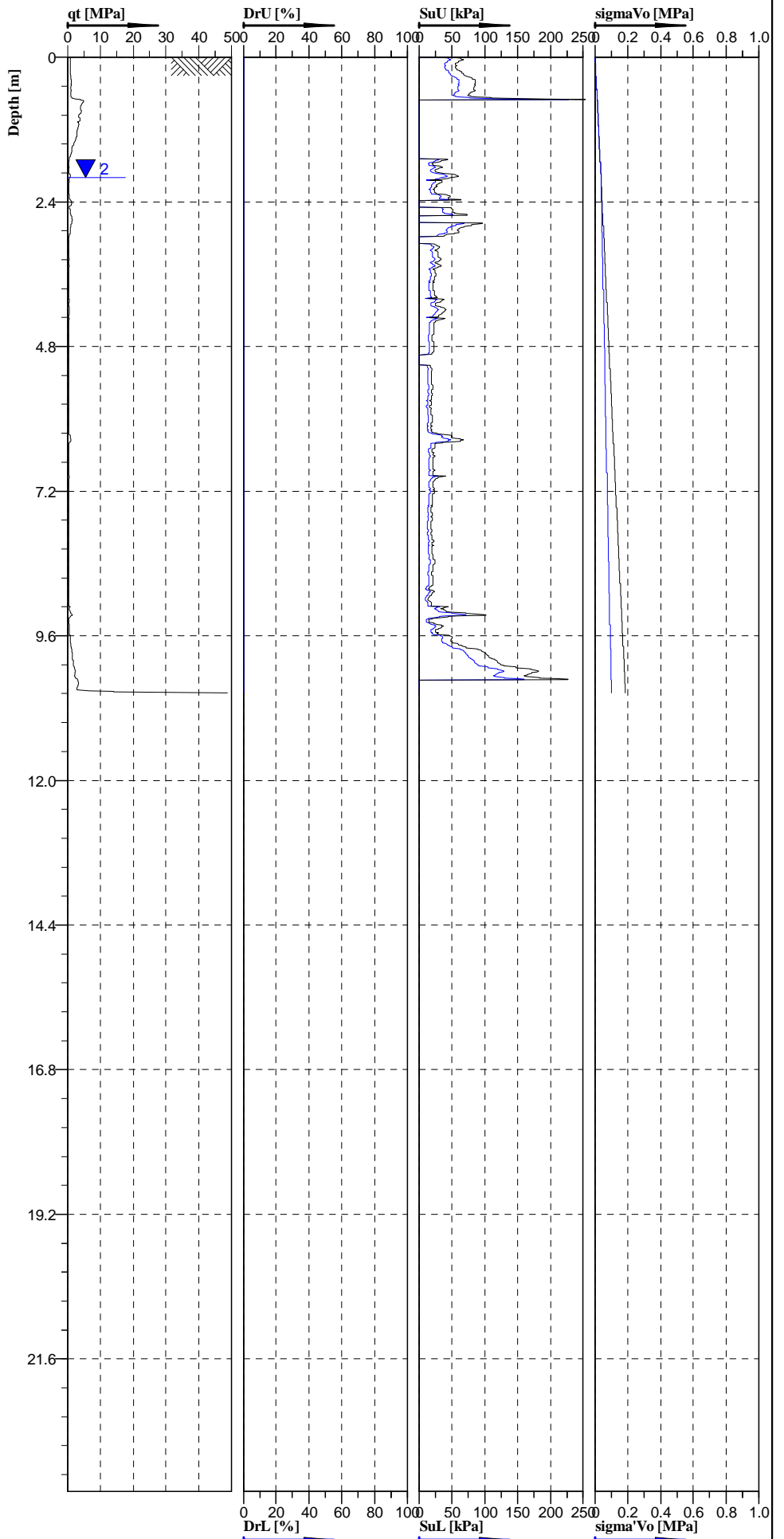
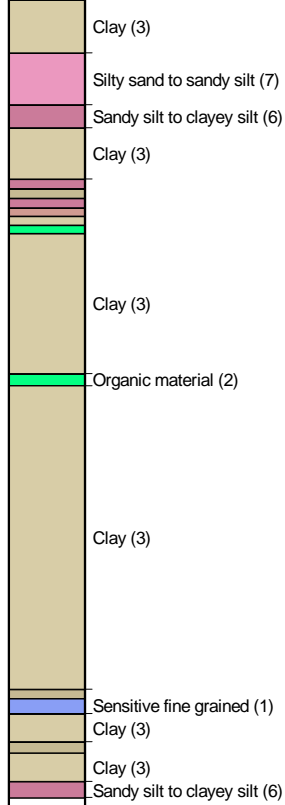
Classification by
Robertson 1986



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297979 m, Y: 6176966 m	Ground level: 1.51	Test no: CPT30
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT30
Data provided by Insitu Geotech Services Pty Ltd			File: CPT30.cpd

Classification by
Robertson 1986

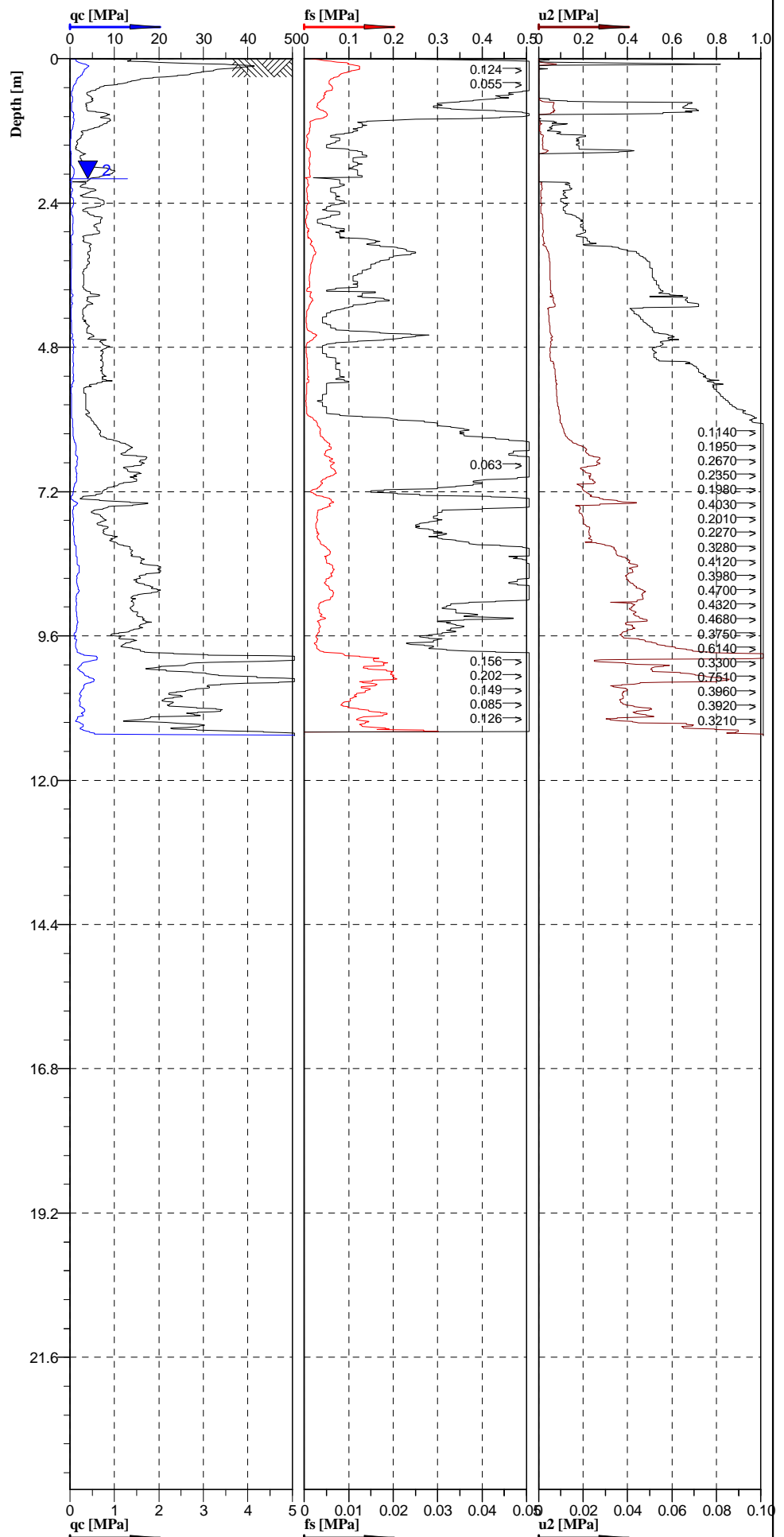


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 297979 m, Y: 6176966 m	Ground level: 1.51	Test no: CPT30
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT30
Data provided by Insitu Geotech Services Pty Ltd			File: CPT30.cpd

Classification by
Robertson 1986

- Clayey silt to silty clay (5)
- Clay (3)
- Organic material (2)
- Clay (3)
- Clayey silt to silty clay (5)
- Sensitive fine grained (1)
- Clay (3)
- Sensitive fine grained (1)
- Clay (3)
- Sensitive fine grained (1)
- Sensitive fine grained (1)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clay (3)
- Clay (3)
- Clay (3)

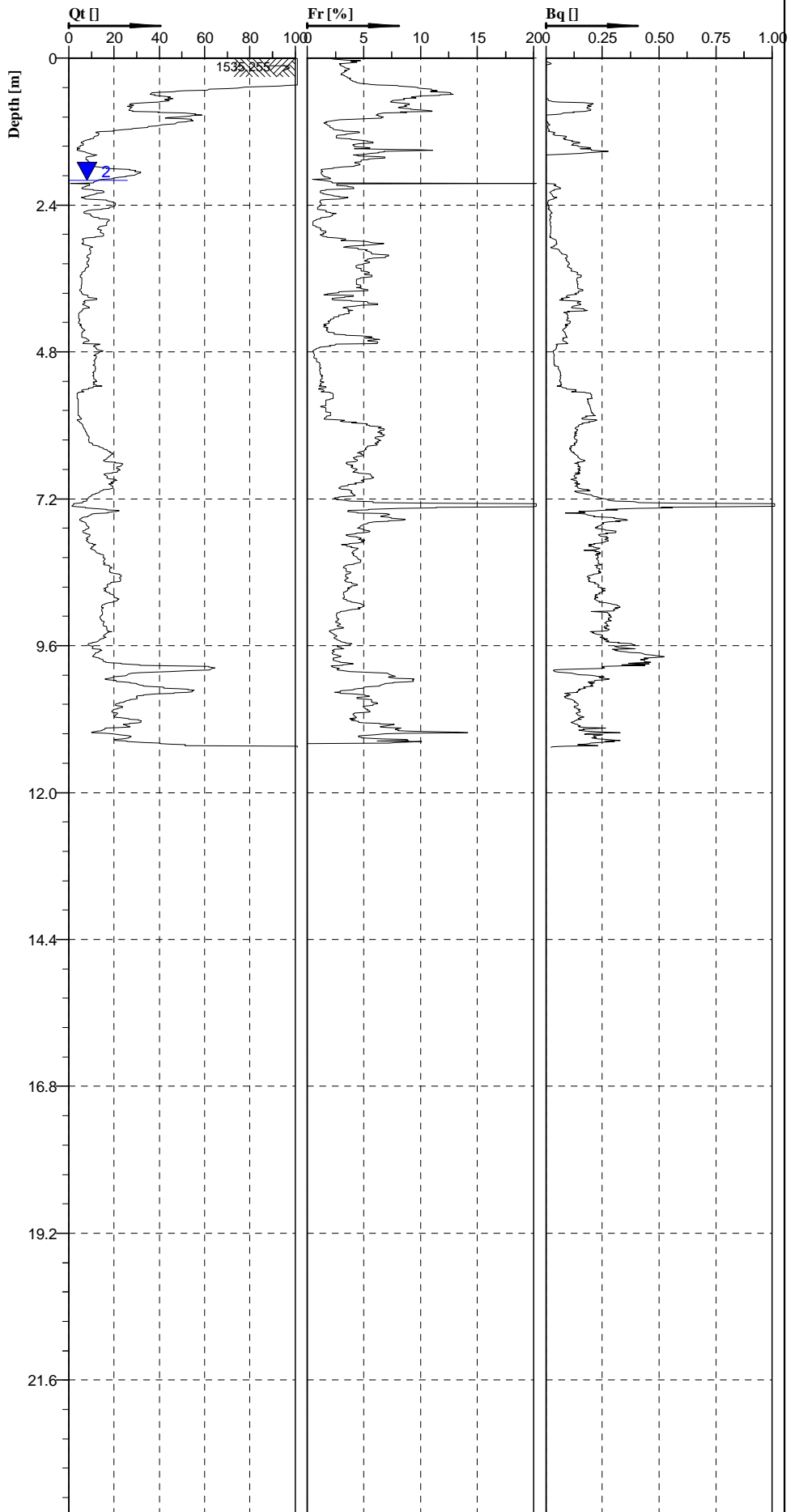


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298087 m, Y: 6176815 m	Ground level: 2.26	Test no: CPT31
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 1/3	Fig: CPT31
Data provided by Insitu Geotech Services			File: CPT31.cpd

**Classification by
Robertson 1986**

- Clayey silt to silty clay (5)
- Clay (3)
- Organic material (2)
- Clay (3)
- Clayey silt to silty clay (5)
- Sensitive fine grained (1)
- Clay (3)
- Sensitive fine grained (1)
- Clay (3)
- Sensitive fine grained (1)
- Sensitive fine grained (1)
- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clayey silt to silty clay (5)
- Clay (3)
- Clay (3)
- Clay (3)

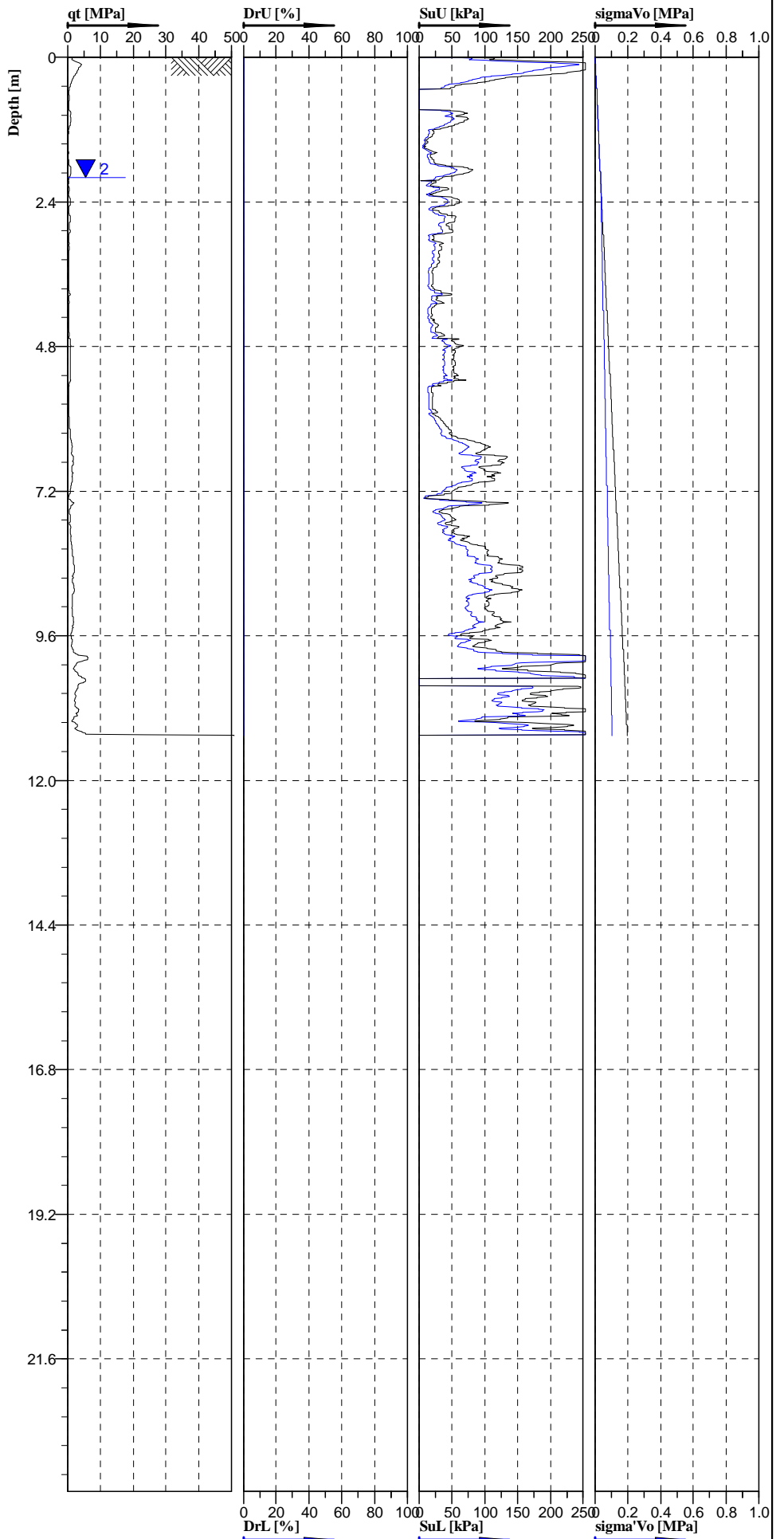


Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298087 m, Y: 6176815 m	Ground level: 2.26	Test no: CPT31
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 2/3	Fig: CPT31
Data provided by Insitu Geotech Services			File: CPT31.cpd

Classification by
Robertson 1986

- Clayey silt to silty clay (5)
- Clay (3)
- Organic material (2)
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- Clay (3)
- Clay (3)
- Silty clay to clay (4)
- Clay (3)
- Clayey silt to silty clay (5)
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- Clay (3)
- Clay (3)
- Clay (3)



Cone No: 0
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: YALLAH, NSW	Position: X: 298087 m, Y: 6176815 m	Ground level: 2.26	Test no: CPT31
Project ID: ENVIWOLL00250AB-R02	Client: TRUenergy	Date: 1/3/2010	Scale: 1 : 100
Project: GEOTECHNICAL INVESTIGATION, TALLAWARRA LANDS		Page: 3/3	Fig: CPT31
Data provided by Insitu Geotech Services			File: CPT31.cpd

Appendix F

Soil Vapour Results

**Geotechnical, Contamination and Groundwater Investigation,
Tallawarra Lands, Yallah, NSW**

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ

PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 01	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 02	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 02	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 03	HS	0.6-0.7	1	0.0	0.0	0.0	No odour
CTP 03	HS	0.3-0.4	1	0.0	0.0	0.0	No odour
CTP 03	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 04	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 05	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 06	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 07	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 08	HS	0.0-0.1	1	0.0	0.0	0.1	No odour
CTP 08	HS	3.3-3.5	1	0.0	1.3	1.5	No odour
CTP 08	HS	1.4-1.6	1	0.0	0.0	0.0	No odour
CTP 08	HS	1.4-1.6	1	0.0	0.0	0.0	No odour
CTP 09	HS	3.2-3.4	1	0.0	4.1	6.4	Decaying vegetation odour
CTP 09	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 09	HS	2.1-2.4	1	0.0	0.0	0.0	No odour
CTP 10	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 11	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 12	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 12	HS	0.6-0.8	1	0.0	0.0	0.0	No odour
CTP 13	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 14	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 14	HS	1.0-1.1	1	0.0	0.0	0.0	No odour
CTP 14	HS	2.0-2.1	1	0.0	0.0	0.0	No odour
CTP 14	HS	3.1-3.2	1	0.0	0.0	0.0	Brackish/Organic Odour
CTP 14	HS	4.0-4.1	1	0.0	0.0	0.0	Brackish/Organic Odour
CTP 14	HS	4.5-4.6	1	0.0	0.0	0.0	Brackish/Organic Odour
CTP 15	HS	0.0-0.1	1	0.0	0.0	0.0	No odour

*Fill in the test type as follows:-
BH () = soil gas probe sample
HS () = headspace sample

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 15	HS	1.0-1.1	1	0.0	0.0	0.0	No odour
CTP 15	HS	2.0-2.1	1	0.0	0.0	0.0	No odour
CTP 15	HS	3.0-3.1	1	0.0	0.0	0.0	Brackish/Organic Odour
CTP 16	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 16	HS	1.35-1.45	1	0.0	0.0	0.0	No odour
CTP 16	HS	2.75-2.90	1	0.0	0.0	0.0	No odour
CTP 16A	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 17	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 17	HS	0.9-1.0	1	0.0	0.0	0.0	No odour
CTP 17	HS	1.9-2.0	1	0.0	0.0	0.0	No odour
CTP 17	HS	SSD3/0.0-0.05	1	0.0	0.0	0.0	No odour
CTP 18	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 18	HS	3.4-3.6	1	0.0	0.0	0.0	Brackish/Organic Odour
CTP 18	HS	3.75-3.95	1	0.0	0.4	0.5	Organic odour
CTP 18A	HS	.055-0.65	1	0.0	0.0	0.0	No odour
CTP 19	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 19	HS	0.5-0.6	1	0.0	0.0	0.0	No odour
CTP 19	HS	1.1-1.2	1	0.0	0.0	0.0	No odour
CTP 19	HS	2.8-2.9	1	0.0	0.1	0.2	No odour
CTP 19	HS	3.15-3.25	1	0.0	0.3	0.4	No odour
CTP 19	HS	4.25-4.35	1	0.0	0.6	0.6	No odour
CTP 19	HS	5.30-5.45	1	0.0	0.0	0.1	No odour
CTP 19	HS	5.90-6.05	1	0.0	0.0	0.0	No odour
CTP 20	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 20	HS	0.45-0.55	1	0.0	0.0	0.0	No odour
CTP 20	HS	1.4-1.5	1	0.0	0.0	0.0	No odour
CTP 20	HS	2.4-2.5	1	0.0	0.0	0.0	No odour
CTP 20	HS	3.00-3.15	1	0.0	0.0	0.0	No odour
CTP 20	HS	4.50-4.65	1	0.0	0.0	0.0	No odour

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 21	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 21	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 21	HS	1.0-1.1	1	0.0	0.0	0.0	No odour
CTP 21	HS	2.0-2.1	1	0.0	0.0	0.0	No odour
CTP 21	HS	2.5-2.6	1	0.0	0.0	0.0	No odour
CTP 21	HS	4.0-4.1	1	0.0	0.0	0.0	No odour
CTP 22	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 22	HS	0.3-0.4	1	0.0	0.0	0.0	No odour
CTP 22	HS	1.0-1.1	1	0.0	0.2	0.4	No odour
CTP 22	HS	2.15-2.25	1	0.0	0.0	0.1	No odour
CTP 22	HS	2.75-2.90	1	0.0	0.0	0.0	No odour
CTP 23	HS	0.00-0.05	1	0.0	0.0	0.0	No odour
CTP 23	HS	0.2-0.3	1	0.0	0.0	0.0	No odour
CTP 23	HS	1.65-1.75	1	0.0	0.0	0.0	No odour
CTP 23	HS	2.75-2.90	1	0.0	0.2	0.3	No odour
CTP 23	HS	3.85-3.95	1	0.0	0.0	0.1	Brackish/Organic Odour
CTP 24	HS	0.00-0.05	1	0.0	0.0	0.0	No odour
CTP 24	HS	0.15-0.25	1	0.0	0.0	0.0	No odour
CTP 24	HS	0.85-0.95	1	0.0	0.0	0.0	No odour
CTP 24	HS	1.5-1.6	1	0.0	0.1	0.2	No odour
CTP 24	HS	2.65-2.75	1	0.0	0.2	0.3	No odour
CTP 24	HS	4.6-4.7	1	0.0	0.0	0.0	No odour
CTP 25	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 25	HS	1.20-1.45	1	0.0	0.0	0.0	No odour
CTP 25	HS	1.55-1.70	1	0.0	0.0	0.0	No odour
CTP 25	HS	2.85-3.00	1	0.0	0.0	0.0	No odour
CTP 25	HS	3.4-3.5	1	0.0	0.0	0.0	No odour
CTP 26	HS	0.0-0.1	1	0.0	0.0	0.0	No odour

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 26	HS	1.25-1.35	1	0.0	0.0	0.0	No odour
CTP 26	HS	2.15-2.30	1	0.0	0.0	0.0	No odour
CTP 26	HS	3.0-3.1	1	0.0	0.0	0.0	No odour
CTP 26	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 27	HS	0.5-0.6	1	0.0	0.0	0.0	No odour
CTP 27	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 27	HS	1.2-1.3	1	0.0	0.0	0.0	No odour
CTP 28	HS	0.8-0.9	1	0.0	0.0	0.0	No odour
CTP 28	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 29	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 30	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 31	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 32	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 33	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 34	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 35	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 36	HS	1.0-1.1	1	0.0	0.0	0.0	No odour
CTP 36	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 37	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 38	HS	1.6-1.7	1	0.0	0.0	0.0	No odour
CTP 38	HS	0.6-0.8	1	0.0	0.0	0.0	No odour
CTP 38	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 39	HS	0.00-0.10	1	0.0	0.0	0.0	No odour
CTP 40	HS	0.00-0.10	1	0.0	0.0	0.0	No odour
CTP 42	HS	0.3-0.5	1	0.0	0.0	0.0	No odour
CTP 42	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 43	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 43	HS	0.3-0.4	1	0.0	0.0	0.0	No odour
CTP 44	HS	0.0-0.1	1	0.0	0.0	0.0	No odour

*Fill in the test type as follows:-
BH () = soil gas probe sample
HS () = headspace sample

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 44A	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 44B	HS	0.0-0.1	1	0.0	0.0	0.1	No odour
CTP 44B	HS	0.6-0.8	1	0.0	0.0	0.0	No odour
CTP 45	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 45	HS	1.6-1.7	1	0.0	0.0	0.0	No odour
CTP 45	HS	4.0-4.2	1	0.0	0.0	0.0	Moderate Hydrogen Sulphide Odour
CTP 46	HS	0.00-0.10	1	0.0	0.0	0.0	No odour
CTP 47	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 47	HS	0.0-0.1	1	0.0	0.3	0.3	No odour
CTP 48	HS	0.0-0.1	1	0.0	0.2	0.3	No odour
CTP 50	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 50	HS	0.0-0.1	1	0.0	0.4	0.5	No odour
CTP 51	HS	0.0-0.1	1	0.0	0.4	0.4	No odour
CTP 52	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 53	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 54	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 55	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 55	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 56	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 57	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 58	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 60	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 60	HS	0.0-0.1	1	0.0	0.2	0.3	No odour
CTP 62	HS	0.0-0.1	1	0.0	0.5	0.5	No odour
CTP 64	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 65	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 65	HS	0.0-0.1	1	0.0	0.6	0.7	No odour
CTP 66	HS	0.0-0.1	1	0.0	0.0	0.0	No odour

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 66	HS	2.4-2.6	1	0.0	0.2	0.1	Moderate Hydrogen Sulphide Odour
CTP 66	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 66	HS	0.0-0.1	1	0.0	0.2	0.3	No odour
CTP 66 (11/6/10)	HS	0.0-0.1	1	0.0	0.4	0.5	No odour
CTP 66 (11/6/10)	HS	0.8-1.0	1	0.0	0.2	0.4	No odour
CTP 67	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 67	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 68	HS	0.4-0.5	1	0.0	0.0	0.0	No odour
CTP 68	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 69	HS	0.8-1.0	1	0.0	0.0	0.0	No odour
CTP 69	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 70	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 71	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 72	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 73	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 74	HS	1.0-1.2	1	0.0	0.0	0.0	No odour
CTP 74	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 74	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 75	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 75	HS	1.0-1.1	1	0.0	0.0	0.0	No odour
CTP 75	HS	2.0-2.1	1	0.0	0.0	0.0	No odour
CTP 75	HS	3.0-3.1	1	0.0	0.0	0.0	No odour
CTP 75	HS	4.2-4.3	1	0.0	0.0	0.0	No odour
CTP 75	HS	4.65-4.75	1	0.0	0.0	0.0	Brackish Odour
CTP 75	HS	5.0-5.1	1	0.0	0.0	0.0	Brackish Odour
CTP 75	HS	6.7-6.8	1	0.0	0.0	0.0	No odour
CTP 76	HS	0.00-0.05	1	0.0	0.0	0.0	No odour

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 76	HS	0.2-0.3	1	0.0	0.1	0.3	No odour
CTP 76	HS	0.55-0.65	1	0.0	0.1	0.2	No odour
CTP 76	HS	1.15-1.25	1	0.0	0.0	0.0	No odour
CTP 76	HS	1.7-1.8	1	0.0	0.2	0.2	No odour
CTP 76	HS	2.6-2.7	1	0.0	0.1	0.1	No odour
CTP 76	HS	3.5-3.6	1	0.0	0.1	0.1	No odour
CTP 76	HS	4.6-4.7	1	0.0	0.0	0.0	No odour
CTP 77	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 77	HS	1.50-1.75	1	0.0	0.0	0.0	No odour
CTP 77	HS	3.0-3.5	1	0.0	0.0	0.0	No odour
CTP 77	HS	5.80-5.95	1	0.0	0.0	0.0	No odour
CTP 77	HS	6.8-7.0	1	0.0	0.0	0.0	No odour
CTP 77	HS	8.00-8.15	1	0.0	0.0	0.0	No odour
CTP 77	HS	8.85-8.90	1	0.0	0.0	0.0	No odour
CTP 78	HS	0.0-0.1	1	0.0	0.0	0.1	Decomposing matter/refuse type odour
CTP 78	HS	0.75-0.85	1	0.0	0.0	0.2	No odour
CTP 78	HS	1.5-1.6	1	0.0	0.0	0.0	No odour
CTP 78	HS	2.75-2.90	1	0.0	0.0	0.0	No odour
CTP 78	HS	3.25-3.40	1	0.0	0.0	0.0	No odour
CTP 78	HS	4.2-4.3	1	0.0	0.0	0.0	No odour
CTP 79	HS	0.00-0.15	1	0.0	0.2	0.3	No odour
CTP 79	HS	1.0-1.1	1	0.0	0.2	0.2	No odour
CTP 79	HS	2.1-2.2	1	0.0	0.4	0.4	No odour
CTP 79	HS	3.25-3.35	1	0.0	0.4	0.4	No odour
CTP 79	HS	4.7-4.8	1	0.0	0.2	0.3	No odour
CTP 79	HS	SSD79/0.00-0.05	1	0.0	1.2	1.2	No odour
CTP 80	HS	0.0-0.1	1	0.0	0.3	0.3	No odour
CTP 80	HS	1.5-1.6	1	0.0	0.3	0.3	No odour

*Fill in the test type as follows:-
BH () = soil gas probe sample
HS () = headspace sample

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ

PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 80	HS	2.7-2.8	1	0.0	0.3	0.3	No odour
CTP 80	HS	3.5-3.6	1	0.0	0.4	0.4	No odour
CTP 80	HS	SSD80/0.00-0.05	1	0.0	0.2	0.2	No odour
CTP 81	HS	0.0-0.1	1	0.0	0.2	0.3	No odour
CTP 81	HS	1.00-1.15	1	0.0	0.0	0.1	No odour
CTP 81	HS	2.4-2.5	1	0.0	0.0	0.2	No odour
CTP 81	HS	4.0-4.2	1	0.0	0.0	0.1	No odour
CTP 82	HS	0.0-0.1	1	0.0	0.0	0.1	No odour
CTP 82	HS	1.7-1.8	1	0.0	0.0	0.1	No odour
CTP 82	HS	2.75-2.85	1	0.0	0.1	0.2	No odour
CTP 82	HS	4.50-4.75	1	0.0	0.0	0.0	No odour
CTP 82A	HS	0.2-0.3	1	0.0	0.1	0.1	No odour
CTP 83	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 83	HS	1.1-1.2	1	0.0	0.0	0.0	No odour
CTP 83	HS	2.7-2.8	1	0.0	0.0	0.0	No odour
CTP 83	HS	3.4-3.5	1	0.0	0.0	0.0	No odour
CTP 83	HS	3.8-3.9	1	0.0	0.0	0.0	No odour
CTP 83	HS	4.3-4.4	1	0.0	0.0	0.0	No odour
CTP 83	HS	4.7-4.8	1	0.0	0.4	0.4	No odour
CTP 83	HS	4.95-5.05	1	0.0	0.2	0.2	No odour
CTP 83	HS	6.3-6.4	1	0.0	0.0	0.0	No odour
CTP 84	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
CTP 84	HS	0.5-0.6	1	0.0	0.0	0.1	No odour
CTP 84	HS	0.85-0.95	1	0.0	0.0	0.0	No odour
CTP 84	HS	1.25-1.35	1	0.0	0.1	0.2	No odour
CTP 84	HS	2.0-2.1	1	0.0	0.0	0.0	No odour
CTP 84	HS	2.35-2.45	1	0.0	0.0	0.0	No odour
CTP 84	HS	2.8-2.9	1	0.0	0.0	0.0	No odour
CTP 84	HS	3.1-3.2	1	0.0	0.0	0.0	No odour

*Fill in the test type as follows:-
BH () = soil gas probe sample
HS () = headspace sample

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ
PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
CTP 84	HS	3.65-3.75	1	0.0	0.0	0.0	No odour
CTP 84	HS	4.35-4.45	1	0.0	0.0	0.0	No odour
CTP 84	HS	4.75-4.85	1	0.0	0.0	0.0	No odour
CTP 85	HS	0.0-0.2	1	0.0	0.0	0.0	No odour
CTP 85	HS	0.9-1.0	1	0.0	0.1	0.2	No odour
CTP 85	HS	1.35-1.45	1	0.0	0.3	0.3	No odour
CTP 85	HS	1.75-1.85	1	0.0	0.1	0.2	No odour
CTP 85	HS	2.65-2.75	1	0.0	0.0	0.1	No odour
SSD86A (CTP86A)	HS	0.00-0.05	1	0.0	0.0	0.0	No odour
SSD86B	HS	0.00-0.05	1	0.0	0.0	0.0	No odour
SSD86C	HS	0.00-0.05	1	0.0	0.0	0.0	No odour
CTP 86	HS	0.0-0.1	1	0.0	0.1	0.2	No odour
CTP 86	HS	0.4-0.5	1	0.0	0.0	0.1	No odour
CTP 86	HS	1.0-1.1	1	0.0	0.1	0.2	No odour
CTP 86	HS	1.9-2.0	1	0.0	0.1	0.2	No odour
CTP 86	HS	2.25-2.35	1	0.0	0.0	0.0	No odour
QC 01	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 02	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 03	HS	1.0-1.2	1	0.0	0.0	0.0	No odour
QC 07	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 08	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 09	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 11	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 12	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 13	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 14	HS	0.0-0.1	1	0.0	0.0	0.0	No odour
QC 1000	HS	0.0-0.1	1	0.0	0.2	0.2	No odour

*Fill in the test type as follows:-
BH () = soil gas probe sample
HS () = headspace sample

Photoionisation Detector Results

Client: TRUenergy	Office: WOLLONGONG
Principal:	Date: 24/02/2010-01/03/2010, 10/03/10, 11/6/10, 12/7/10
Project: GEOTECHNICAL, CONTAMINATION & GROUNDWATER INVESTIGATION	By: DJD/BH/CA
Location: TALLAWARRA LANDS YALLAH, NSW	Checked by: CCQ

PID Serial Number: MINI RAE 2000 110-008460	Lamp Voltage: 10.6eV
Last checked/calibrated: 22/02/10 to 1/03/2010, 10/03/10, 11/6/10, 12/7/10	0ppm Calibration: 0ppm
Calibration gas type/concentration: Isobutylene/100ppm	100ppm Calibration: 100ppm (22, 24 & 26/2/10, 10/3/10, 11/6/10) 101ppm (23 & 25/2/10, 12/7/10)

Location Number	Test	Bore or sample probe depth (m)	Duration (mins)	Background Reading (ppm)	last reading (ppm)	Maximum Reading (ppm)	Notes
QC 2000	HS	0.0-0.1	1	0.0	0.3	0.5	No odour
SS 101	HS	0.0-0.1	1	0.1	0.2	0.2	Slow rise - No odour
SS 102	HS	0.0-0.1	1	0.0	0.1	0.1	Slow rise - No odour

Appendix G

Chemical Laboratory Report

**Geotechnical, Contamination and Groundwater Investigation,
Tallawarra Lands, Yallah, NSW**

Appendix G

Soil Laboratory Results

ANALYTICAL REPORT

19 March 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: ENVIWOLL00250AB

Our Reference: SE76228-R

Samples: 136 Soils, 2 Materials
Received: 26/2/10

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.


This report cancels and supersedes report No. SE76228 issued on 08/03/2010 by SGS Environmental Services due to correction in sample ID.

For and on Behalf of:

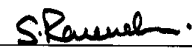
SGS ENVIRONMENTAL SERVICES

Client Services:	Simon Matthews	Simon.Matthews@sgs.com
Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Laboratory Manager:	Edward Ibrahim	Edward.Ibrahim@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory


Ravee Sivasubramaniam
Asbestos Signatory



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Page 1 of 29

BTEX in Soil						
Our Reference:	UNITS	SE76228-R	SE76228-R	SE76228-R	SE76228-R	SE76228-R
Your Reference	-----	-15	-32	-38	-44	-58
Sample Matrix	-----	CTP83/4.7-	CTP79/1.0-	CTP14/1.0-	CTP15/2.0-	CTP78/0.75
Date Sampled		4.8	1.15	1.1	2.1	-0.95
		Soil	Soil	Soil	Soil	Soil
		25/02/2010	25/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.9
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	0.9
BTEX Surrogate (%)	%	73	81	80	92	90

BTEX in Soil						
Our Reference:	UNITS	SE76228-R	SE76228-R	SE76228-R	SE76228-R	SE76228-R
Your Reference	-----	-65	-74	-107	-129	-130
Sample Matrix	-----	CTP16/2.75	CTP19/2.8-	CTP25/1.3-	DJD17 -	DJD18 -
Date Sampled		-2.9	2.9	1.45	Trip Spike	Trip Blank
		Soil	Soil	Soil	Soil	Soil
		23/02/2010	23/02/2010	22/02/2010		
Date Extracted (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	75%	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	70%	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	71%	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	73%	<0.3
BTEX Surrogate (%)	%	79	74	75	84	93

TRH C6-C9 by P/T ONLY- in Soil Our Reference:	UNITS	SE76228-R -130
Your Reference	-----	DJD18 - Trip Blank
Sample Matrix Date Sampled	-----	Soil
Date Extracted (TRH C6-C9 PT)		4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20



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TRH in soil with..C6-C9 by P/T Our Reference:	UNITS	SE76228-R -15	SE76228-R -32	SE76228-R -38	SE76228-R -44	SE76228-R -58
Your Reference	-----	CTP83/4.7- 4.8	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C10-C36)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50

TRH in soil with..C6-C9 by P/T Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45
Sample Matrix	-----	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010
Date Extracted (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20
Date Extracted (TRH C10-C36)		4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C10-C36)		4/03/2010	4/03/2010	4/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50



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PAHs in Soil Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -18	SE76228-R -22	SE76228-R -29
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP80/3.5- 3.6
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	0.12	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	0.23	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<1.90	<1.7	<1.7
Nitrobenzene-d5	%	89	89	111	100	86
2-Fluorobiphenyl	%	78	79	95	82	78
<i>p</i> -Terphenyl-d14	%	83	89	89	86	71



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PAHs in Soil Our Reference:	UNITS	SE76228-R -32	SE76228-R -38	SE76228-R -44	SE76228-R -53	SE76228-R -58
Your Reference	-----	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.29	0.24	0.23	0.19	0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	0.14	0.14	0.16	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.98	<1.93	<1.94	<1.84	<1.7
Nitrobenzene-d5	%	93	89	95	88	104
2-Fluorobiphenyl	%	78	71	72	69	84
<i>p</i> -Terphenyl-d14	%	97	99	98	101	100



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PAHs in Soil Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107	SE76228-R -134
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45	DJD22
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010	25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	0.19	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	0.14	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.24	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	0.14	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<2.06	<1.7	<1.7	<1.7
Nitrobenzene-d5	%	113	86	93	107
2-Fluorobiphenyl	%	87	65	83	76
<i>p</i> -Terphenyl-d14	%	98	100	97	93



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OC Pesticides in Soil Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -18	SE76228-R -22	SE76228-R -32
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP79/1.0- 1.15
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	105	101	99	87	91



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OC Pesticides in Soil Our Reference:	UNITS	SE76228-R -38	SE76228-R -44	SE76228-R -53	SE76228-R -57	SE76228-R -58
Your Reference	-----	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.0- 0.1	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	95	97	97	101	106



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OC Pesticides in Soil Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107	SE76228-R -134
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45	DJD22
Sample Matrix Date Sampled	-----	Soil 23/02/2010	Soil 23/02/2010	Soil 22/02/2010	Soil 25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	92	94	106	99



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PCBs in Soil Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -18	SE76228-R -22	SE76228-R -32
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP79/1.0- 1.15
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	105	101	99	87	91

PCBs in Soil Our Reference:	UNITS	SE76228-R -38	SE76228-R -44	SE76228-R -53	SE76228-R -57	SE76228-R -58
Your Reference	-----	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.0- 0.1	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	95	97	97	101	106



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SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499
www.au.sgs.com

PCBs in Soil					
Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107	SE76228-R -134
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45	DJD22
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010	25/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	92	94	106	99



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Metals in Soil by ICP-OES	UNITS	SE76228-R	SE76228-R	SE76228-R	SE76228-R	SE76228-R
Our Reference:		-3	-11	-18	-22	-29
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP80/3.5- 3.6
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	<3	5	22	<3	6
Cadmium	mg/kg	0.3	<0.3	0.4	0.4	<0.3
Chromium	mg/kg	14	9.6	1.9	12	2.3
Copper	mg/kg	22	22	23	30	4.4
Lead	mg/kg	12	7	21	11	2
Nickel	mg/kg	5.5	1.6	7.5	5.3	4.0
Zinc	mg/kg	27	12	46	55	7.9

Metals in Soil by ICP-OES	UNITS	SE76228-R	SE76228-R	SE76228-R	SE76228-R	SE76228-R
Our Reference:		-32	-38	-44	-53	-58
Your Reference	-----	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.75- -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	<3	<3	4	20	4
Cadmium	mg/kg	0.3	0.5	0.4	0.7	0.4
Chromium	mg/kg	1.4	6.4	1.7	1.6	9.6
Copper	mg/kg	19	23	18	20	92
Lead	mg/kg	15	14	20	29	50
Nickel	mg/kg	6.5	9.5	6.2	12	6.9
Zinc	mg/kg	34	49	41	62	160



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Metals in Soil by ICP-OES					
Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107	SE76228-R -134
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45	DJD22
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010	25/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	3	<3	4	<3
Cadmium	mg/kg	0.5	<0.3	<0.3	0.3
Chromium	mg/kg	1.2	9.1	7.1	15
Copper	mg/kg	18	11	4.8	21
Lead	mg/kg	11	7	12	11
Nickel	mg/kg	4.5	2.1	1.4	6.3
Zinc	mg/kg	50	15	11	27



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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -18	SE76228-R -22	SE76228-R -29
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP80/3.5- 3.6
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	<0.05	<0.05	0.10	<0.05	0.18

Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE76228-R -32	SE76228-R -38	SE76228-R -44	SE76228-R -53	SE76228-R -58
Your Reference	-----	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	<0.05	<0.05	<0.05	0.07	0.08

Mercury Cold Vapor/Hg Analyser					
Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107	SE76228-R -134
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45	DJD22
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010	25/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	0.06	<0.05	<0.05	<0.05



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Asbestos ID in soil						
Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -18	SE76228-R -22	SE76228-R -29
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP82/1.7- 1.8	CTP81/0.0- 0.1	CTP80/3.5- 3.6
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Sample Description		37g soil	20g clay	14g Soil,rocks	37g Clay	10g Soil,rocks
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID in soil						
Our Reference:	UNITS	SE76228-R -32	SE76228-R -38	SE76228-R -44	SE76228-R -53	SE76228-R -58
Your Reference	-----	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95	CTP78/0.75 -0.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Sample Description		32g Soil,rocks	27g Soil,rocks	21g Soil,rocks	43g Soil,rocks	22g Soil,rocks
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected Organic fibres detected*	No asbestos detected	No asbestos detected

Asbestos ID in soil				
Our Reference:	UNITS	SE76228-R -65	SE76228-R -74	SE76228-R -107
Your Reference	-----	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45
Sample Matrix	-----	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	22/02/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010
Sample Description		37g Soil,rocks	23g Clay,sand	22g Soil
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected



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Moisture						
Our Reference:	UNITS	SE76228-R -3	SE76228-R -11	SE76228-R -15	SE76228-R -18	SE76228-R -22
Your Reference	-----	CTP75/2.0- 2.1	CTP83/1.1- 1.2	CTP83/4.7- 4.8	CTP82/1.7- 1.8	CTP81/0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	25/02/2010	25/02/2010	25/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Moisture	%	17	15	21	7	18

Moisture						
Our Reference:	UNITS	SE76228-R -29	SE76228-R -32	SE76228-R -38	SE76228-R -44	SE76228-R -53
Your Reference	-----	CTP80/3.5- 3.6	CTP79/1.0- 1.15	CTP14/1.0- 1.1	CTP15/2.0- 2.1	CTP77/5.8- 5.95
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/02/2010	25/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Moisture	%	23	8	7	7	8

Moisture						
Our Reference:	UNITS	SE76228-R -57	SE76228-R -58	SE76228-R -65	SE76228-R -74	SE76228-R -107
Your Reference	-----	CTP78/0.0- 0.1	CTP78/0.75 -0.95	CTP16/2.75 -2.9	CTP19/2.8- 2.9	CTP25/1.3- 1.45
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	23/02/2010	23/02/2010	22/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Moisture	%	15	12	8	12	15

Moisture			
Our Reference:	UNITS	SE76228-R -130	SE76228-R -134
Your Reference	-----	DJD18 - Trip Blank	DJD22
Sample Matrix	-----	Soil	Soil
Date Sampled			25/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010
Moisture	%	2	17



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SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at $105 \pm 5^{\circ}\text{C}$.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Date Analysed (BTEX)				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	66%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	73%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	75%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	85%
BTEX Surrogate (%)	%	0	SEO-018	85	[NT]	[NT]	LCS	92%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C6-C9 by P/T ONLY- in Soil								
Date Extracted (TRH C6-C9 PT)				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Date Analysed (TRH C6-C9 PT)				4/03/2010	[NT]	[NT]	LCS	4/03/2010
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	88%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				4/03/2010	SE76228-3 2	4/03/2010 4/03/2010	LCS	4/03/2010
Date Analysed (TRH C6-C9 PT)				4/03/2010	SE76228-3 2	4/03/2010 4/03/2010	LCS	4/03/2010
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	SE76228-3 2	<20 <20	LCS	88%
Date Extracted (TRH C10-C36)				4/03/2010	SE76228-3 2	4/03/2010 4/03/2010	LCS	4/03/2010
Date Analysed (TRH C10-C36)				4/03/2010	SE76228-3 2	4/03/2010 4/03/2010	LCS	4/03/2010
TRH C10 - C14	mg/kg	20	SEO-020	<20	SE76228-3 2	<20 <20	LCS	110%
TRH C15 - C28	mg/kg	50	SEO-020	<50	SE76228-3 2	<50 <50	LCS	106%
TRH C29 - C36	mg/kg	50	SEO-020	<50	SE76228-3 2	<50 <50	LCS	76%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				4/03/2010	SE76228-32	4/03/2010 4/03/2010	LCS	4/03/2010
Date Analysed				4/03/2010	SE76228-32	4/03/2010 4/03/2010	LCS	4/03/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	96%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	109%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	121%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	0.29 0.24 RPD: 19	LCS	113%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	118%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	123%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	LCS	122%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	0.14 0.12 RPD: 15	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE76228-32	<0.20 <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE76228-32	<0.05 <0.05	LCS	102%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE76228-32	<0.10 <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE76228-32	<1.98 <1.91	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	100	SE76228-32	93 110 RPD: 17	LCS	77%
2-Fluorobiphenyl	%	0	SEO-030	78	SE76228-32	78 86 RPD: 10	LCS	72%
p -Terphenyl-d14	%	0	SEO-030	88	SE76228-32	97 96 RPD: 1	LCS	89%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				4/03/2010	SE76228-3	4/03/2010 4/03/2010	SE76228-11	4/03/2010
Date Analysed				4/03/2010	SE76228-3	4/03/2010 4/03/2010	SE76228-11	4/03/2010
HCB	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	116%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	123%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	112%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	117%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	125%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-11	76%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	86	SE76228-3	105 101 RPD: 4	SE76228-11	113%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				4/03/2010	SE76228-3	4/03/2010 4/03/2010	SE76228-18	4/03/2010
Date Analysed				4/03/2010	SE76228-3	4/03/2010 4/03/2010	SE76228-18	4/03/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	SE76228-18	87%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE76228-3	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE76228-3	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	86	SE76228-3	105 101 RPD: 4	SE76228-18	98%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				8/03/2010	SE76228-3	8/03/2010 8/03/2010	SE76228-11	8/03/2010
Date Analysed (Metals)				8/03/2010	SE76228-3	8/03/2010 8/03/2010	SE76228-11	8/03/2010
Arsenic	mg/kg	3	SEM-010	<3	SE76228-3	<3 3	SE76228-11	86%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE76228-3	0.3 0.3 RPD: 0	SE76228-11	89%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE76228-3	14 16 RPD: 13	SE76228-11	97%
Copper	mg/kg	0.5	SEM-010	<0.5	SE76228-3	22 25 RPD: 13	SE76228-11	105%
Lead	mg/kg	1	SEM-010	<1	SE76228-3	12 13 RPD: 8	SE76228-11	88%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE76228-3	5.5 6.6 RPD: 18	SE76228-11	86%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE76228-3	27 30 RPD: 11	SE76228-11	104%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				8/03/2010	SE76228-3	8/03/2010 8/03/2010	LCS	8/03/2010
Date Analysed (Mercury)				8/03/2010	SE76228-3	8/03/2010 8/03/2010	LCS	8/03/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	SE76228-3	<0.05 <0.05	LCS	114%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- NO test required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
BTEX in Soil			
Date Extracted (BTEX)		SE76228-6 5	4/03/2010 4/03/2010
Date Analysed (BTEX)		SE76228-6 5	4/03/2010 4/03/2010
Benzene	mg/kg	SE76228-6 5	<0.1 <0.1
Toluene	mg/kg	SE76228-6 5	<0.1 <0.1
Ethylbenzene	mg/kg	SE76228-6 5	<0.1 <0.1
Total Xylenes	mg/kg	SE76228-6 5	<0.3 <0.3
BTEX Surrogate (%)	%	SE76228-6 5	79 77 RPD: 3



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QUALITY CONTROL TRH in soil with..C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE76228-6 5	4/03/2010 4/03/2010
Date Analysed (TRH C6-C9 PT)		SE76228-6 5	4/03/2010 4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	SE76228-6 5	<20 <20
Date Extracted (TRH C10-C36)		SE76228-6 5	4/03/2010 [N/T]
Date Analysed (TRH C10-C36)		SE76228-6 5	4/03/2010 [N/T]
TRH C ₁₀ - C ₁₄	mg/kg	SE76228-6 5	<20 [N/T]
TRH C ₁₅ - C ₂₈	mg/kg	SE76228-6 5	<50 [N/T]
TRH C ₂₉ - C ₃₆	mg/kg	SE76228-6 5	<50 [N/T]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE76228-1 34	4/03/2010 4/03/2010
Date Analysed		SE76228-1 34	4/03/2010 4/03/2010
Naphthalene	mg/kg	SE76228-1 34	<0.10 <0.10
2-Methylnaphthalene	mg/kg	SE76228-1 34	<0.10 <0.10
1-Methylnaphthalene	mg/kg	SE76228-1 34	<0.10 <0.10
Acenaphthylene	mg/kg	SE76228-1 34	<0.10 <0.10
Acenaphthene	mg/kg	SE76228-1 34	<0.10 <0.10
Fluorene	mg/kg	SE76228-1 34	<0.10 <0.10
Phenanthrene	mg/kg	SE76228-1 34	<0.10 <0.10
Anthracene	mg/kg	SE76228-1 34	<0.10 <0.10
Fluoranthene	mg/kg	SE76228-1 34	<0.10 <0.10
Pyrene	mg/kg	SE76228-1 34	<0.10 <0.10



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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Benzo[a]anthracene	mg/kg	SE76228-1 34	<0.10 <0.10
Chrysene	mg/kg	SE76228-1 34	<0.10 <0.10
Benzo[b,k]fluoranthene	mg/kg	SE76228-1 34	<0.20 <0.20
Benzo[a]pyrene	mg/kg	SE76228-1 34	<0.05 <0.05
Indeno[123-cd]pyrene	mg/kg	SE76228-1 34	<0.10 <0.10
Dibenzo[ah]anthracene	mg/kg	SE76228-1 34	<0.10 <0.10
Benzo[ghi]perylene	mg/kg	SE76228-1 34	<0.10 <0.10
Total PAHs (sum)	mg/kg	SE76228-1 34	<1.7 <1.7
Nitrobenzene-d5	%	SE76228-1 34	107 86 RPD: 22
2-Fluorobiphenyl	%	SE76228-1 34	76 76 RPD: 0
<i>p</i> -Terphenyl- <i>d</i> 14	%	SE76228-1 34	93 103 RPD: 10

QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE76228-7 4	4/03/2010 4/03/2010
Date Analysed		SE76228-7 4	4/03/2010 4/03/2010
HCB	mg/kg	SE76228-7 4	<0.1 <0.1
<i>alpha</i> -BHC	mg/kg	SE76228-7 4	<0.1 <0.1
gamma-BHC (Lindane)	mg/kg	SE76228-7 4	<0.1 <0.1
Heptachlor	mg/kg	SE76228-7 4	<0.1 <0.1
Aldrin	mg/kg	SE76228-7 4	<0.1 <0.1
<i>beta</i> -BHC	mg/kg	SE76228-7 4	<0.1 <0.1
<i>delta</i> -BHC	mg/kg	SE76228-7 4	<0.1 <0.1



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QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Heptachlor Epoxide	mg/kg	SE76228-7 4	<0.1 <0.1
<i>o,p</i> -DDE	mg/kg	SE76228-7 4	<0.1 <0.1
<i>alpha</i> -Endosulfan	mg/kg	SE76228-7 4	<0.1 <0.1
<i>trans</i> -Chlordane	mg/kg	SE76228-7 4	<0.1 <0.1
<i>cis</i> -Chlordane	mg/kg	SE76228-7 4	<0.1 <0.1
<i>trans</i> -Nonachlor	mg/kg	SE76228-7 4	<0.1 <0.1
<i>p,p</i> -DDE	mg/kg	SE76228-7 4	<0.1 <0.1
Dieldrin	mg/kg	SE76228-7 4	<0.1 <0.1
Endrin	mg/kg	SE76228-7 4	<0.1 <0.1
<i>o,p</i> -DDD	mg/kg	SE76228-7 4	<0.1 <0.1
<i>o,p</i> -DDT	mg/kg	SE76228-7 4	<0.1 <0.1
<i>beta</i> -Endosulfan	mg/kg	SE76228-7 4	<0.1 <0.1
<i>p,p</i> -DDD	mg/kg	SE76228-7 4	<0.1 <0.1
<i>p,p</i> -DDT	mg/kg	SE76228-7 4	<0.1 <0.1
Endosulfan Sulphate	mg/kg	SE76228-7 4	<0.1 <0.1
Endrin Aldehyde	mg/kg	SE76228-7 4	<0.1 <0.1
Methoxychlor	mg/kg	SE76228-7 4	<0.1 <0.1
Endrin Ketone	mg/kg	SE76228-7 4	<0.1 <0.1
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	SE76228-7 4	94 100 RPD: 6



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QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE76228-7 4	4/03/2010 4/03/2010
Date Analysed		SE76228-7 4	4/03/2010 4/03/2010
Arochlor 1016	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1221	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1232	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1242	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1248	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1254	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1260	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1262	mg/kg	SE76228-7 4	<0.1 <0.1
Arochlor 1268	mg/kg	SE76228-7 4	<0.1 <0.1
Total Positive PCB	mg/kg	SE76228-7 4	<0.90 <0.90
PCB_Surrogate 1	%	SE76228-7 4	94 100 RPD: 6



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ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE76228-7 4	8/03/2010 8/03/2010
Date Analysed (Metals)		SE76228-7 4	8/03/2010 8/03/2010
Arsenic	mg/kg	SE76228-7 4	<3 3
Cadmium	mg/kg	SE76228-7 4	<0.3 <0.3
Chromium	mg/kg	SE76228-7 4	9.1 10 RPD: 9
Copper	mg/kg	SE76228-7 4	11 12 RPD: 9
Lead	mg/kg	SE76228-7 4	7 8 RPD: 13
Nickel	mg/kg	SE76228-7 4	2.1 2.9 RPD: 32
Zinc	mg/kg	SE76228-7 4	15 20 RPD: 29

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE76228-7 4	8/03/2010 8/03/2010
Date Analysed (Mercury)		SE76228-7 4	8/03/2010 8/03/2010
Mercury	mg/kg	SE76228-7 4	<0.05 <0.05



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Result Codes

[INS] :	Insufficient Sample for this test	[RPD] :	Relative Percentage Difference
[NR] :	Not Requested	*	Not part of NATA Accreditation
[NT] :	Not tested	[N/A] :	Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

Project : ENVIWOLL00250AB
 Order Number : 28563-70, 28572
 Samples : 136 Soils, 2 Materials

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE76228**
 No. of Samples : 147
 Due Date : 8/03/2010

Date Instructions Received : 1/03/2010
 Sample Receipt Date : 26/2/10

Samples received in good order	: YES	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice
Sample containers provided by	: SGS	Samples clearly Labelled	: NO
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Instructions received 1/3/10 @ 5:03pm
 CTP22/1.65-1.75 labelled as CTP23/1.65-1.75.
 Bag for CTP75/3.8-3.9 labelled as CTP35/3.8-3.9.
 To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
1	CTP75/0.0-0.1											X	
2	CTP75/1.0-1.1											X	
3	CTP75/2.0-2.1	X				X	X	X	X	X	X		X
4	CTP75/3.0-3.1											X	
5	CTP75/3.8-3.9											X	
6	CTP75/4.2-4.3											X	
7	CTP75/5.0-5.1											X	
8	CTP75/4.65-4.75											X	
9	CTP75/6.7-6.8											X	
10	CTP83/0.0-0.1											X	
11	CTP83/1.1-1.2	X				X	X	X	X	X	X		X
12	CTP83/2.7-2.8											X	
13	CTP83/3.4-3.5											X	
14	CTP83/4.3-4.4											X	
15	CTP83/4.7-4.8		X		X								X
16	CTP83/4.95-5.05											X	
17	CTP82/0.0-0.1											X	
18	CTP82/1.7-1.8	X				X	X	X	X	X	X		X

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
19	CTP82/2.75-2.85											X	
20	CTP82/4.5-4.75											X	
21	CTP82A/0.2-0.3											X	
22	CTP81/0.0-0.1	X				X	X	X	X	X	X		X
23	CTP81/1.0-1.15											X	
24	CTP81/2.4-2.5											X	
25	CTP81/4.0-4.2											X	
26	CTP80/0.0-0.1											X	
27	CTP80/1.5-1.6											X	
28	CTP80/2.7-2.8											X	
29	CTP80/3.5-3.6	X				X			X	X	X		X
30	SSD80/0.0-0.05											X	
31	CTP79/0.0-0.15											X	
32	CTP79/1.0-1.15	X	X		X	X	X	X	X	X	X		X
33	CTP79/2.1-2.2											X	
34	CTP79/3.25-3.35											X	
35	CTP79/4.7-4.8											X	
36	SSD79/0.0-0.05											X	
37	CTP14/0.0-0.1											X	
38	CTP14/1.0-1.1	X	X		X	X	X	X	X	X	X		X
39	CTP14/2.0-2.1											X	
40	CTP14/3.0-3.1											X	
41	CTP14/4.0-4.1											X	
42	CTP14/4.5-4.6											X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
43	CTP15/0.0-0.1											X	
44	CTP15/2.0-2.1	X	X		X	X	X	X	X	X	X		X
46	CTP17/0.0-0.1											X	
47	CTP17/0.9-1.0											X	
48	CTP17/1.9-2.0											X	
50	CTP77/0.0-0.1											X	
51	CTP77/1.5-1.75											X	
52	CTP77/3.0-3.50											X	
53	CTP77/5.8-5.95	X				X	X	X	X	X	X		X
54	CTP77/6.8-7.0											X	
55	CTP77/8.0-8.15											X	
56	CTP77/8.95-9.0											X	
57	CTP78/0.0-0.1						X	X					X
58	CTP78/0.75-0.95	X	X		X	X	X	X	X	X	X		X
59	CTP78/1.5-1.6											X	
60	CTP78/2.75-2.9											X	
61	CTP78/3.25-3.4											X	
62	CTP78/4.2-4.3											X	
63	CTP16/0.4-0.5											X	
64	CTP16/1.35-1.45											X	
65	CTP16/2.75-2.9	X	X		X	X	X	X	X	X	X		X
66	CTP16A/0.4-0.5											X	
67	CTP18/0.4-0.5											X	
68	CTP18/0.55-0.65											X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
69	CTP18/3.4-3.6											X	
70	CTP18/3.75-3.95											X	
71	CTP19/0.0-0.1											X	
72	CTP19/0.5-0.6											X	
73	CTP19/1.1-1.2											X	
74	CTP19/2.8-2.9	X	X		X	X	X	X	X	X	X		X
75	CTP19/3.15-3.25											X	
76	CTP19/4.25-4.35											X	
77	CTP19/5.3-5.45											X	
78	CTP19/5.9-6.05											X	
79	CTP22/0.0-0.1											X	
80	CTP22/0.3-0.4											X	
81	CTP22/1.0-1.1											X	
82	CTP22/1.65-1.75											X	
83	CTP22/2.15-2.25											X	
84	CTP22/2.75-2.9											X	
85	CTP23/0.0-0.05											X	
86	CTP23/0.2-0.3											X	
87	CTP23/2.8-2.9											X	
88	CTP23/3.85-3.95											X	
89	CTP24/0.0-0.085											X	
90	CTP24/0.15-0.25											X	
91	CTP24/0.85-0.95											X	
92	CTP24/2.65-2.75											X	



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
93	CTP24/4.6-4.7											X	
94	CTP20/0.0-0.1											X	
95	CTP20/0.45-0.55											X	
96	CTP20/1.4-1.5											X	
97	CTP20/2.4-2.5											X	
98	CTP20/3.3-1.5											X	
99	CTP20/4.5-4.65											X	
100	CTP21/0.0-0.1											X	
101	CTP21/0.4-0.5											X	
102	CTP21/1.0-1.1											X	
103	CTP21/2.0-2.1											X	
104	CTP21/2.5-2.6											X	
105	CTP21/4.0-4.1											X	
106	CTP25/0.0-0.1											X	
107	CTP25/1.3-1.45	X	X		X	X	X	X	X	X	X		X
108	CTP25/1.55-1.7											X	
109	CTP25/2.85-3.0											X	
110	CTP25/3.4-3.5											X	
111	CTP26/0.0-0.1											X	
112	CTP26/1.25-1.35											X	
113	CTP26/2.15-2.3											X	
114	CTP26/3.0-3.1											X	
115	SS17/0.0-0.05											X	
116	SS18/0.0-0.05											X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
117	DJD01											X	
118	DJD02											X	
119	DJD04											X	
120	DJD05											X	
121	DJD06											X	
122	DJD08											X	
123	DJD09											X	
124	DJD10											X	
125	DJD11											X	
126	DJD12											X	
127	DJD14											X	
128	DJD16											X	
129	DJD17 - Trip Spike		X										
130	DJD18 - Trip Blank		X	X									X
131	DJD19											X	
132	DJD20											X	
133	DJD21											X	
134	DJD22	X				X	X	X	X	X			X
135	CTP15/1.0-1.1 (jar)											X	
136	CTP15/3.0-3.1 (jar)											X	
138	SSD2/0.0-0.05 (SSD79/0.0-0.5)											X	
139	SSD3/0.0-0.05 (SSD80/0.0-0.5)											X	
141	CTP78/Fibro 1 SAL											X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH C6-C9 by P/T ONLY- in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
142	CTP78/Fibro 2 SAL											X	
143	CTP78/Fibro 1											X	
144	CTP78/Fibro 2											X	

Sample No.	Description
1	CTP75/0.0-0.1
2	CTP75/1.0-1.1
3	CTP75/2.0-2.1
4	CTP75/3.0-3.1
5	CTP75/3.8-3.9
6	CTP75/4.2-4.3
7	CTP75/5.0-5.1
8	CTP75/4.65-4.75
9	CTP75/6.7-6.8
10	CTP83/0.0-0.1
11	CTP83/1.1-1.2
12	CTP83/2.7-2.8
13	CTP83/3.4-3.5
14	CTP83/4.3-4.4
15	CTP83/4.7-4.8
16	CTP83/4.95-5.05



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description
17	CTP82/0.0-0.1
18	CTP82/1.7-1.8
19	CTP82/2.75-2.85
20	CTP82/4.5-4.75
21	CTP82A/0.2-0.3
22	CTP81/0.0-0.1
23	CTP81/1.0-1.15
24	CTP81/2.4-2.5
25	CTP81/4.0-4.2
26	CTP80/0.0-0.1
27	CTP80/1.5-1.6
28	CTP80/2.7-2.8
29	CTP80/3.5-3.6
30	SSD80/0.0-0.05
31	CTP79/0.0-0.15
32	CTP79/1.0-1.15
33	CTP79/2.1-2.2
34	CTP79/3.25-3.35
35	CTP79/4.7-4.8
36	SSD79/0.0-0.05
37	CTP14/0.0-0.1
38	CTP14/1.0-1.1
39	CTP14/2.0-2.1
40	CTP14/3.0-3.1
41	CTP14/4.0-4.1
42	CTP14/4.5-4.6
43	CTP15/0.0-0.1
44	CTP15/2.0-2.1
46	CTP17/0.0-0.1



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description
47	CTP17/0.9-1.0
48	CTP17/1.9-2.0
50	CTP77/0.0-0.1
51	CTP77/1.5-1.75
52	CTP77/3.0-3.50
53	CTP77/5.8-5.95
54	CTP77/6.8-7.0
55	CTP77/8.0-8.15
56	CTP77/8.95-9.0
57	CTP78/0.0-0.1
58	CTP78/0.75-0.95
59	CTP78/1.5-1.6
60	CTP78/2.75-2.9
61	CTP78/3.25-3.4
62	CTP78/4.2-4.3
63	CTP16/0.4-0.5
64	CTP16/1.35-1.45
65	CTP16/2.75-2.9
66	CTP16A/0.4-0.5
67	CTP18/0.4-0.5
68	CTP18/0.55-0.65
69	CTP18/3.4-3.6
70	CTP18/3.75-3.95
71	CTP19/0.0-0.1
72	CTP19/0.5-0.6
73	CTP19/1.1-1.2
74	CTP19/2.8-2.9
75	CTP19/3.15-3.25
76	CTP19/4.25-4.35



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description
77	CTP19/5.3-5.45
78	CTP19/5.9-6.05
79	CTP22/0.0-0.1
80	CTP22/0.3-0.4
81	CTP22/1.0-1.1
82	CTP22/1.65-1.75
83	CTP22/2.15-2.25
84	CTP22/2.75-2.9
85	CTP23/0.0-0.05
86	CTP23/0.2-0.3
87	CTP23/2.8-2.9
88	CTP23/3.85-3.95
89	CTP24/0.0-0.085
90	CTP24/0.15-0.25
91	CTP24/0.85-0.95
92	CTP24/2.65-2.75
93	CTP24/4.6-4.7
94	CTP20/0.0-0.1
95	CTP20/0.45-0.55
96	CTP20/1.4-1.5
97	CTP20/2.4-2.5
98	CTP20/3.3-3.15
99	CTP20/4.5-4.65
100	CTP21/0.0-0.1
101	CTP21/0.4-0.5
102	CTP21/1.0-1.1
103	CTP21/2.0-2.1
104	CTP21/2.5-2.6
105	CTP21/4.0-4.1



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description
106	CTP25/0.0-0.1
107	CTP25/1.3-1.45
108	CTP25/1.55-1.7
109	CTP25/2.85-3.0
110	CTP25/3.4-3.5
111	CTP26/0.0-0.1
112	CTP26/1.25-1.35
113	CTP26/2.15-2.3
114	CTP26/3.0-3.1
115	SS17/0.0-0.05
116	SS18/0.0-0.05
117	DJD01
118	DJD02
119	DJD04
120	DJD05
121	DJD06
122	DJD08
123	DJD09
124	DJD10
125	DJD11
126	DJD12
127	DJD14
128	DJD16
129	DJD17 - Trip Spike
130	DJD18 - Trip Blank
131	DJD19
132	DJD20
133	DJD21
134	DJD22



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76228

Sample No.	Description
135	CTP15/1.0-1.1 (jar)
136	CTP15/3.0-3.1 (jar)
138	SSD2/0.0-0.05 (SSD79/0.0-0.5)
139	SSD3/0.0-0.05 (SSD80/0.0-0.5)
141	CTP78/Fibro 1 SAL
142	CTP78/Fibro 2 SAL
143	CTP78/Fibro 1
144	CTP78/Fibro 2



Chain of Custody

Laboratory Quotation / Order No:

Job No: ENV200002048

No: 28563

Dispatch to: SCS Environmental
Address & Phone No: 16/35 Madder Street
Alexandra NSW

Sampled by:

David Dren

Consigning Officer:

Valentene

Date Dispatched:

26/2/2010

Attention:

Sample Receipt

Project Manager:
(report results to)

Colin Boyle

Courier Service:

MdB Carre

Consignment Note No:

315909

Relinquished by:

David

Date:

26/2

Time:

7:30am

Received by:

David

Date:

28/2

Time:

2:30

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt		
					PAHs	TPHs	MAHs = BTEX	Metals:	TM/CBTEX	OCB		PCB	Asbestos
	SCIL	Glass jar + zip lock bag	C1075 / 0-0-0-1	25/2/2010	/	/	/	/	/	/	/	/	
			1-0-1-1		/	/	/	/	/	/	/	/	
			2-0-2-1		/	/	/	/	/	/	/	/	
			3-0-3-1		/	/	/	/	/	/	/	/	
			3-8-3-9		/	/	/	/	/	/	/	/	
			4-2-4-3		/	/	/	/	/	/	/	/	
			5-0-5-1		/	/	/	/	/	/	/	/	
			4-65-4-75		/	/	/	/	/	/	/	/	
			6-7-6-8		/	/	/	/	/	/	/	/	
			0-0-0-1		/	/	/	/	/	/	/	/	
			1-1-1-2		/	/	/	/	/	/	/	/	
			2-7-2-8		/	/	/	/	/	/	/	/	
			3-4-3-5		/	/	/	/	/	/	/	/	
			4-3-4-4		/	/	/	/	/	/	/	/	
			4-7-4-8		/	/	/	/	/	/	/	/	
			4-95-5-05		/	/	/	/	/	/	/	/	

Special Analytical Instructions:

Detection Limits:

Turning Round Requirement:

Copies: WHITE: Sign on release. YELLOW: if dispatched to other site. BLUE: Sign on receipt and fax back to Coffey. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES



Chain of Custody

Laboratory Quotation / Order No:

Job No: ENV100250AFB Sheet 2 of

No: 28564

Dispatch to:
(Address & Phone No.)

SGS Environmental
16/35 Maddox Street
Alexandria NSW

Sample by:

Daniel Dean

Consigning Officer:

WILLIAMS

Date Dispatched:

26/2/2010

Attention:

Sample Receipt

Project Manager:
(report results to)

Chae Quayle

Courier Service:

MD B Lewis

Consignment Note No:

315909

Relinquished by:

D. Dean

Date:

7.30am 26/2/2010

Received by:

Evangelina

Date:

26/2

Time:

2:30

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt	
					PAHs	TPHs	MAHs = BTEX	Metals:	TPH/BTEX	OC		PCB
	SC2L	Class jar + zip lock bag 18	CPP82 / 0.0-0.1	25/2/2010	/	/	/	/	/	/	/	HOLD
			1.7-1.8		/	/	/	/	/	/	/	/
			2.75-2.85		/	/	/	/	/	/	/	/
			4.5-4.75		/	/	/	/	/	/	/	/
			CPP82A / 0.2-0.3		/	/	/	/	/	/	/	/
			1.0-1.15		/	/	/	/	/	/	/	/
			2.4-2.5		/	/	/	/	/	/	/	/
			4.0-4.2		/	/	/	/	/	/	/	/
			CPP80 / 0.0-0.1		/	/	/	/	/	/	/	/
			1.5-1.6		/	/	/	/	/	/	/	/
			2.1-2.8		/	/	/	/	/	/	/	/
			3.5-3.6		/	/	/	/	/	/	/	/
			SSD50 / 0.0-0.05		/	/	/	/	/	/	/	/
			1.0-1.15		/	/	/	/	/	/	/	/
			2.1-2.2		/	/	/	/	/	/	/	/

Special Laboratory Instructions:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Customer: *White* Sign on release. *Yellow* If dispatched to external lab, lab to sign on receipt and fax back to Coffey. *At the* To be returned with results.



Chain of Custody

Laboratory Quotation / Order No:

Job No: ENVIRWELL0025048 Sheet 5 of 8

No: 28567

Dispatch to: (Address & Phone No.)
SBS Maddox Street
Alexandria NSW

Sampled by:

David Allen

Consigning Officer:

WOLLENBONG

Date Dispatched:

26/2/2010

Attention:

Sample Receipt

Project Manager:
(report results to)

Colin O'Keefe

Courier Service:

M&B Couriers

Consignment Note No:

3159009

Relinquished by:

D. Allen Date: 26/2 Time: 7:30

Received by:

DAW

Date: 26/2

Time: 2:30

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required				Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:	
	Soil	Flagged 20g leak bag	CTP18 / 0.4-0.5	25/2/2010				Asbestos	Hold
			CTP19 / 3.4-3.6						
			CTP20 / 3.75-3.95						
			CTP21 / 0.5-0.6						
			CTP22 / 1.1-1.2						
			CTP23 / 2.8-2.9						
			CTP24 / 3.15-3.25						
			CTP25 / 4.25-4.35						
			CTP26 / 5.5-5.45						
			CTP27 / 5.9-6.05						
			CTP28 / 0.0-0.1						
			CTP29 / 0.3-0.4						
			CTP30 / 1.0-1.1						
			CTP31 / 1.65-1.75						
			CTP32 / 2.15-2.25						

Special Laboratory Instructions:

Detection Limits:

Turnover Required:

Copies: WHITE: Sign on release. YELLOW: For analysis only - no signature. Lab. Lab to sign on receipt and for release. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

AU.SampleReceipt.Sydney (Sydney)

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Monday, 1 March 2010 5:03 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: FW: ENVIWOLL0250AB, SGS SE76228
Attachments: Scanned COC part 2.pdf

Hi Emily

The following additional samples not included on the original COC have added to the COC 28572 (attached):

135 CTP15/1.0-1.1
 136 CTP15/3.0-3.1 } keys
 143 CTP78/FIBRO1
 141 CTP78/FIBRO1-SOIL
 144 CTP78/FIBRO2
 142 CTP78/FIBRO2-SOIL

45 CTP15/4.0-4.1 – Please disregard, no sample at that depth collected
 49 CTP17/3.0-3.1 – Please disregard, no sample at that depth collected
 82 CTP22/1.65-1.75 – This is the sample interpreted as CTP23/1.65-1.75. It should be CTP22/1.65-1.75
 138 SSD2/0.0-0.05 – This is sample SSD79/0.0-0.05
 139 SSD3/0.0-0.05 – This is sample SSD80/ 0.0-0.05
 147 CTP75/3.8-3.9 – This is the sample interpreted at CTP35/3.8-3.9

The other samples listed on COC28572-28574 are being dispatched tomorrow morning.

DANIEL DEEN
 Environmental Scientist

Coffey Environments
 118 Auburn Street Wollongong NSW 2500 Australia
 T +61 2 4201 1400 F +61 2 4201 1401 M +61 407 243 663
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Monday, 1 March 2010 10:46 AM
To: Colee Quayle; Daniel Deen
Subject: ENVIWOLL0250AB, SGS SE76228

Hello,

CTP15/4.0-4.1, CTP17/3.0-3.1 and CTP22/1.65-1.75 jars and bags not received.
 CTP75/3.8-3.9 and CTP6/0.4-0.5 bag not received.
 Extra samples received on the bottom of COC 28570.
 Please forward analysis as soon as possible. Thank You.

Kind Regards
 Emily Yin
Environmental Services
 Sample Administration Officer

SGS Australia Pty Ltd
 Unit 16, 33 Maddox St
 Alexandria, NSW, 2015
 Phone: +61 (0)2 8594 0400

1/03/2010

AU.SampleReceipt.Sydney (Sydney)

From: Colee Quayle [Colee_Quayle@coffey.com]
Sent: Tuesday, 2 March 2010 1:33 PM
To: AU.SampleReceipt.Sydney (Sydney); Daniel Deen
Subject: RE: ENVIWOLL00250AB, SGS SE76228

As, Cd, Cr, Cu, Ni, Pb, Zn, Hg

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 2 March 2010 1:10 PM
To: Colee Quayle; Daniel Deen
Subject: ENVIWOLL00250AB, SGS SE76228

Please list metals required. Thanks.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

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2/03/2010

AU.SampleReceipt.Sydney (Sydney)

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Wednesday, 3 March 2010 9:12 PM
To: AU.SampleReceipt.Sydney (Sydney)
Cc: Colee Quayle
Subject: RE: ENVIWOLL00205AB, SGS SE76228 - bag not supplied for asbestos sample DJD22 - PLEASE ADVISE

No asbestos analysis for DJD22 is required.

Colee and I are fully aware of the NATA requirements for asbestos analysis. On this occasion analysis was requested when it shouldn't have been as DJD22 is a duplicate.

DANIEL DEEN
 Environmental Scientist

Coffey Environments
 118 Auburn Street Wollongong NSW 2500 Australia
 T +61 2 4201 1400 F +61 2 4201 1401 M +61 407 243 663
coffey.com

From: AU.SampleReceipt.Sydney (Sydney) [AU.SampleReceipt.Sydney@sgs.com]
Sent: Wednesday, 3 March 2010 4:27 PM
To: Colee Quayle
Cc: Daniel Deen
Subject: FW: ENVIWOLL00205AB, SGS SE76228 - bag not supplied for asbestos sample DJD22 - PLEASE ADVISE

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Wednesday, 3 March 2010 11:38 AM
To: Daniel Deen; Colee Quayle
Subject: ENVIWOLL00205AB, SGS SE76228

A separate homogenised portion (~50g) was not supplied for Asbestos analysis for **DJD22**.

To meet our NATA requirements we are unable to subsample from the glass jar supplied.

Please confirm if additional sample will be supplied for the samples marked for Asbestos otherwise SGS will be unable to proceed with the request of Asbestos analysis on a NATA endorsed report.

Alternately if additional sample cannot be supplied then SGS is able to subsample from the sample we have at hand however a NON-NATA endorsed report will be issued separately for asbestos analysis.

Please confirm which option will be undertaken.

Kind Regards
 Emily Yin
Environmental Services
 Sample Administration Officer

SGS Australia Pty Ltd
 Unit 16, 33 Maddox St
 Alexandria, NSW, 2015
 Phone: +61 (0)2 8594 0400
 Fax: +61 (0)2 8594 0499
 E-mail: au.samplereceipt.sydney@sgs.com

4/03/2010



Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: ES1003848	Page	: 1 of 5
Client	: COFFEY ENVIRONMENTS PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: MS COLEE QUAYLE	Contact	: Charlie Pierce
Address	: 118 AUBURN STREET WOLLONGONG NSW, AUSTRALIA 2500	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: colee_quayle@coffey.com	E-mail	: charlie.pierce@alsenviro.com
Telephone	: +61 02 4201 1400	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 4201 1401	Facsimile	: +61-2-8784 8500
Project	: ENVIWOLL00250AB	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 02-MAR-2010
C-O-C number	: 28575	Issue Date	: 08-MAR-2010
Sampler	: DD	No. of samples received	: 6
Site	: ----	No. of samples analysed	: 1
Quote number	: EN-007-09		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Alex Rossi	Organic Chemist	Organics
Hoa Nguyen	Inorganic Chemist	Inorganics
Wisam.Marassa	Metals Coordinator	Inorganics

Environmental Division Sydney

Part of the **ALS Laboratory Group**

277-289 Woodpark Road Smithfield NSW Australia 2164

Tel. +61-2-8784 8555 Fax. +61-2-8784 8500 www.alsglobal.com

A Campbell Brothers Limited Company



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting



Analytical Results

Sub-Matrix: SOIL

Client sample ID

DJD 23

Client sampling date / time

25-FEB-2010 15:00

Compound	CAS Number	LOR	Unit	ES1003848-001				
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	14.0	----	----	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	20	----	----	----	----
Copper	7440-50-8	5	mg/kg	84	----	----	----	----
Lead	7439-92-1	5	mg/kg	30	----	----	----	----
Nickel	7440-02-0	2	mg/kg	7	----	----	----	----
Zinc	7440-66-6	5	mg/kg	56	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.10	mg/kg	<0.10	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL

Client sample ID

Client sampling date / time

				DJD 23				
				25-FEB-2010 15:00				
Compound	CAS Number	LOR	Unit	ES1003848-001				
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5				
Acenaphthene	83-32-9	0.5	mg/kg	<0.5				
Fluorene	86-73-7	0.5	mg/kg	<0.5				
Phenanthrene	85-01-8	0.5	mg/kg	<0.5				
Anthracene	120-12-7	0.5	mg/kg	<0.5				
Fluoranthene	206-44-0	0.5	mg/kg	<0.5				
Pyrene	129-00-0	0.5	mg/kg	<0.5				
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5				
Chrysene	218-01-9	0.5	mg/kg	<0.5				
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5				
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5				
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5				
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5				
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5				
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5				
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	102				
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	90.0				
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	87.9				
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	78.5				
2-Chlorophenol-D4	93951-73-6	0.1	%	82.7				
2,4,6-Tribromophenol	118-79-6	0.1	%	81.7				
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	90.2				
Anthracene-d10	1719-06-8	0.1	%	89.9				
4-Terphenyl-d14	1718-51-0	0.1	%	102				



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	10	164
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	136
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	10	136
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	24	113
2-Chlorophenol-D4	93951-73-6	23	134
2,4,6-Tribromophenol	118-79-6	19	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	30	115
Anthracene-d10	1719-06-8	27	133
4-Terphenyl-d14	1718-51-0	18	137



Environmental Division

QUALITY CONTROL REPORT

Work Order	: ES1003848	Page	: 1 of 8
Client	: COFFEY ENVIRONMENTS PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: MS COLEE QUAYLE	Contact	: Charlie Pierce
Address	: 118 AUBURN STREET WOLLONGONG NSW, AUSTRALIA 2500	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: colee_quayle@coffey.com	E-mail	: charlie.pierce@alsenviro.com
Telephone	: +61 02 4201 1400	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 4201 1401	Facsimile	: +61-2-8784 8500
Project	: ENVIWOLL00250AB	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: ----	Date Samples Received	: 02-MAR-2010
C-O-C number	: 28575	Issue Date	: 08-MAR-2010
Sampler	: DD	No. of samples received	: 6
Order number	: ----	No. of samples analysed	: 1
Quote number	: EN-007-09		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits



NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Alex Rossi	Organic Chemist	Organics
Hoa Nguyen	Inorganic Chemist	Inorganics
Wisam.Marassa	Metals Coordinator	Inorganics

Environmental Division Sydney

Part of the **ALS Laboratory Group**

277-289 Woodpark Road Smithfield NSW Australia 2164

Tel. +61-2-8784 8555 Fax. +61-2-8784 8500 www.alsglobal.com

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General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key :
Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC



Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR:- No Limit; Result between 10 and 20 times LOR:- 0% - 50%; Result > 20 times LOR:- 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EA055: Moisture Content (QC Lot: 1267054)									
ES1003839-009	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	49.8	55.2	10.2	0% - 20%
ES1003839-024	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1.0	%	16.6	10.2	47.5	0% - 50%
EG005T: Total Metals by ICP-AES (QC Lot: 1269330)									
ES1003726-065	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	8	7	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	6	6	17.4	No Limit
ES1003726-075	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	3	4	35.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 1269331)									
ES1003726-065	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES1003726-075	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 1267001)									
ES1003661-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.10	mg/kg	<0.10	<0.10	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 1267000)									
ES1003661-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 1267000) - continued									
ES1003661-001	Anonymous	EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1267139)									
ES1003879-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	0.8	<0.5	45.8	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES1003909-006	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Page : 5 of 8
 Work Order : ES1003848
 Client : COFFEY ENVIRONMENTS PTY LTD
 Project : ENVIWOLL00250AB



Sub-Matrix: **SOIL**

Laboratory Duplicate (DUP) Report

<i>Laboratory sample ID</i>	<i>Client sample ID</i>	<i>Method: Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	<i>Original Result</i>	<i>Duplicate Result</i>	<i>RPD (%)</i>	<i>Recovery Limits (%)</i>
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1267139) - continued									
ES1003909-006	Anonymous	EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)	
						LCS	Low	High	
EG005T: Total Metals by ICP-AES (QCLot: 1269330)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	13.11 mg/kg	124	70	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	2.76 mg/kg	104	83.3	111	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	60.93 mg/kg	116	89.2	117	
EG005T: Copper	7440-50-8	5	mg/kg	<5	54.68 mg/kg	113	90.1	114	
EG005T: Lead	7439-92-1	5	mg/kg	<5	54.76 mg/kg	108	85.2	111	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.23 mg/kg	113	88.3	116	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	103.88 mg/kg	108	88.9	112	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 1269331)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	1.4 mg/kg	76.3	67	118	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 1267001)									
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.10	1 mg/kg	97.0	57.4	117	
EP068A: Organochlorine Pesticides (OC) (QCLot: 1267000)									
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	105	60.8	116	
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	80.4	59.4	115	
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	59.8	117	
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	104	59.8	118	
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	73.3	65.8	114	
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	108	65.6	115	
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	101	67	113	
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	82.7	65.6	113	
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	97.4	60.7	113	
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	65.8	116	
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	104	57.3	120	
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	108	67.4	116	
EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.7	67.5	114	
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.7	63	121	
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	106	66.1	117	
EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.2	65.3	116	
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	102	57.3	115	
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	76.1	63.6	119	
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	75.8	58.4	127	
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	66.7	63.6	117	
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	75.9	50.4	132	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1267139)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)	
						LCS	Low	High	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1267139) - continued									
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	4 mg/kg	92.3	81.9	113	
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	4 mg/kg	91.7	79.6	113	
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	4 mg/kg	83.1	81.5	112	
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	4 mg/kg	87.6	79.9	112	
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	4 mg/kg	90.9	79.4	114	
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	4 mg/kg	92.8	81.1	112	
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	4 mg/kg	88.9	78.8	113	
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	4 mg/kg	89.1	78.9	113	
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	4 mg/kg	100	77.2	112	
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	4 mg/kg	98.8	79.8	114	
EP075(SIM): Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	<0.5	4 mg/kg	93.0	71.8	118	
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	4 mg/kg	101	74.2	117	
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	4 mg/kg	85.7	76.4	113	
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	4 mg/kg	75.4	71	113	
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	4 mg/kg	72.1	71.7	113	
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	4 mg/kg	81.4	72.4	114	



Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery (%)	Recovery Limits (%)	
					MS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 1269330)							
ES1003726-065	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	108	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	104	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	109	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	117	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	109	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	109	70	130
		EG005T: Zinc	7440-66-6	250 mg/kg	110	70	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 1269331)							
ES1003726-065	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	86.8	70	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 1267001)							
ES1003661-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	108	70	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 1267000)							
ES1003661-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	79.7	75.65	110.44
		EP068: Heptachlor	76-44-8	0.5 mg/kg	88.6	72.2	106.71
		EP068: Aldrin	309-00-2	0.5 mg/kg	86.3	77.54	107.0
		EP068: Dieldrin	60-57-1	0.5 mg/kg	83.3	76.37	109.7
		EP068: Endrin	72-20-8	2 mg/kg	97.4	68.51	119.47
		EP068: 4,4'-DDT	50-29-3	2 mg/kg	# 67.1	67.12	118.10
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1267139)							
ES1003879-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	78.8	70	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	87.8	70	130



Environmental Division

INTERPRETIVE QUALITY CONTROL REPORT

Work Order	: ES1003848	Page	: 1 of 5
Client	: COFFEY ENVIRONMENTS PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: MS COLEE QUAYLE	Contact	: Charlie Pierce
Address	: 118 AUBURN STREET WOLLONGONG NSW, AUSTRALIA 2500	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: colee_quayle@coffey.com	E-mail	: charlie.pierce@alsenviro.com
Telephone	: +61 02 4201 1400	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 4201 1401	Facsimile	: +61-2-8784 8500
Project	: ENVIWOLL00250AB	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: ----	Date Samples Received	: 02-MAR-2010
C-O-C number	: 28575	Issue Date	: 08-MAR-2010
Sampler	: DD		
Order number	: ----	No. of samples received	: 6
Quote number	: EN-007-09	No. of samples analysed	: 1

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Interpretive Quality Control Report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Parameter Frequency Compliance
- Brief Method Summaries
- Summary of Outliers



Analysis Holding Time Compliance

The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and precludes subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the analysis aliquot was taken. Elapsed period to analysis represents number of days from sampling where no extraction / digestion is involved or period from extraction / digestion where this is present. For composite samples, sampling date is assumed to be that of the oldest sample contributing to the composite. Sample date for laboratory produced leachates is assumed as the completion date of the leaching process. Outliers for holding time are based on USEPA SW 846, APHA, AS and NEPM (1999). A listing of breaches is provided in the Summary of Outliers.

Holding times for leachate methods (excluding elutriates) vary according to the analytes being determined on the resulting solution. For non-volatile analytes, the holding time compliance assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These soil holding times are: Organics (14 days); Mercury (28 days) & other metals (180 days). A recorded breach therefore does not guarantee a breach for all non-volatile parameters.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	----	----	----	03-MAR-2010	04-MAR-2010	✓
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	05-MAR-2010	25-MAR-2010	✓	06-MAR-2010	24-AUG-2010	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	05-MAR-2010	25-MAR-2010	✓	08-MAR-2010	25-MAR-2010	✓
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	03-MAR-2010	11-MAR-2010	✓	04-MAR-2010	12-APR-2010	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	03-MAR-2010	11-MAR-2010	✓	04-MAR-2010	12-APR-2010	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved DJD 23	25-FEB-2010	03-MAR-2010	11-MAR-2010	✓	05-MAR-2010	12-APR-2010	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	2	12	16.7	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	2	20	10.0	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	9	11.1	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.3	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	20	10.0	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	20	10.0	10.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	9	11.1	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.3	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	9	11.1	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.3	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	5.0	5.0	✔	NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	20	5.0	5.0	✔	ALS QCS3 requirement
Pesticides by GCMS	EP068	1	9	11.1	5.0	✔	ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	7	14.3	5.0	✔	ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	20	5.0	5.0	✔	ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	5.0	5.0	✔	ALS QCS3 requirement



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (1999) Schedule B(3) (Method 102)
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (1999) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl ₂)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (1999) Schedule B(3) (Method 504,505)
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Method 502 and 507)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	USEPA 200.2 Mod. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (1999) Schedule B(3) (Method 202)
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na ₂ SO ₄ and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.



Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	ES1003661-001	Anonymous	4.4'-DDT	50-29-3	67.1 %	67.12-118.10 %	Recovery less than lower data quality objective

- For all matrices, no Method Blank value outliers occur.
- For all matrices, no Duplicate outliers occur.
- For all matrices, no Laboratory Control outliers occur.

Regular Sample Surrogates

- For all regular sample matrices, no surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

- No Quality Control Sample Frequency Outliers exist.



Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : ES1003848

Client : **COFFEY ENVIRONMENTS PTY LTD**
Contact : MS COLEE QUAYLE
Address : 118 AUBURN STREET
WOLLONGONG NSW, AUSTRALIA
2500

Laboratory : Environmental Division Sydney
Contact : Charlie Pierce
Address : 277-289 Woodpark Road Smithfield
NSW Australia 2164

E-mail : colee_quayle@coffey.com
Telephone : +61 02 4201 1400
Facsimile : +61 02 4201 1401

E-mail : charlie.pierce@alsenviro.com
Telephone : +61-2-8784 8555
Facsimile : +61-2-8784 8500

Project : ENVIWOLL00250AB
Order number : ----
C-O-C number : 28575
Site : ----
Sampler : DD

Page : 1 of 2
Quote number : ES2009COFENV0325 (EN-007-09)
QC Level : NEPM 1999 Schedule B(3) and ALS
QCS3 requirement

Dates

Date Samples Received : 02-MAR-2010
Client Requested Due Date : 09-MAR-2010

Issue Date : 03-MAR-2010 14:03
Scheduled Reporting Date : **09-MAR-2010**

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1 FOAM
Security Seal : Intact.

Temperature : 7.8'C - Ice bricks present
No. of samples received : 6
No. of samples analysed : 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Jacob Waugh
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client.

Matrix: SOIL

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) SOIL No analysis requested	SOIL - EP075 SIM PAH only SIM - PAH only	SOIL - S-02 & Metals (incl. Digestion)	SOIL - S-11 OC/PCB
ES1003848-001	25-FEB-2010 15:00	DJD 23		✓	✓	✓
ES1003848-002	22-FEB-2010 15:00	DJD 03	✓			
ES1003848-003	23-FEB-2010 15:00	DJD 07	✓			
ES1003848-004	24-FEB-2010 15:00	DJD 13	✓			
ES1003848-005	24-FEB-2010 15:00	DJD 15	✓			
ES1003848-006	26-FEB-2010 15:00	DJD27	✓			

Requested Deliverables

MS COLEE QUAYLE

- *AU Certificate of Analysis - NATA (COA)	Email	colee_quayle@coffey.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	colee_quayle@coffey.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	colee_quayle@coffey.com
- A4 - AU Sample Receipt Notification - Environmental (SRN)	Email	colee_quayle@coffey.com
- Default - Chain of Custody (COC)	Email	colee_quayle@coffey.com
- EDI Format - ENMRG (ENMRG)	Email	colee_quayle@coffey.com
- EDI Format - ESDAT (ESDAT)	Email	colee_quayle@coffey.com

MS CZERINA TAMAYO

- A4 - AU Tax Invoice (INV)	Email	Czerina_Tamayo@coffey.com
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Laboratory Quotation / Order No:

Job No: **ENNIVILL00250AB** Sheet **1** of **1**

Dispatch to: **ALS**
 (Address & Phone No.) **277 Woodpark Road**
Smithfield NSW

Sampled by: **Daniel Deen**

Consigning Officer: **WOLLONGONG**
 Date Dispatched: **2/3/2010**

Attention: **Sample Receipt**

Project Manager: (report results to) **Colin Quigley**

Courier Service: **Mt B carrier**
 Consignment Note No: **315910**

Relinquished by: A. Deen	Date: 11/3/10	Time: 16:30	Received by: SARADA	Date: 2.9.10	Time: 3:30 P.M
---------------------------------	----------------------	--------------------	----------------------------	---------------------	-----------------------

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required										Sample Condition on Receipt			
					PAHs	TPHs	MAHs = BTEX	Metals:	PCB	OC	Asbestos							
	soil	Class jar	② D5003	22/2/10														
	↓	↓	③ D5007	23/2/10														
			④ D5013	24/2/10														
			⑤ D5015	24/2/10														
			① D5023	25/2/10	/	/	/	/	/	/	/	/	/	/	/	/	/	/
			⑥ D5027	26/2/10														

Environmental Division
 Sydney
 Work Order
ES1003848



Telephone : +61-2-8784 8555

Special Laboratory Instructions:

Detection Limits: Turnaround Required: **Standard TAT**

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

ANALYTICAL REPORT

9 March 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: ENVIWOLL00250AB

Our Reference: SE76250

Samples: 107 Soils

Received: 26/2/10

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Client Services: Simon Matthews

Simon.Matthews@sgs.com

Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com


Laboratory Manager: Edward Ibrahim

Edward.Ibrahim@sgs.com

Results Approved and/or Authorised by:



Ravee Sivasubramaniam
Asbestos Signatory



Ly Kim Ha
Organics Signatory



Huong Crawford
Metals Signatory



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BTEX in Soil						
Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-2 9	SE76250-5 3
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP3/0.0-0. 1m	CTP08/1.0- 1.20m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	23/02/2010	24/02/2010
Date Extracted (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	75	74	72	80	91

BTEX in Soil						
Our Reference:	UNITS	SE76250-5 5	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-1 03
Your Reference	-----	QC3/1.0-1. 20m	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	25/02/2010
Date Extracted (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (BTEX)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	82	89	91	92	85



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WORLD RECOGNISED
ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

Page 2 of 29

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499
www.au.sgs.com

TRH in soil with..C6-C9 by P/T Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-2 9	SE76250-5 3
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0- 10m	CTP68/0.4- 0.50	CTP3/0.0-0- 1m	CTP08/1.0- 1.20m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	23/02/2010	24/02/2010
Date Extracted (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed (TRH C10-C36)		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50

TRH in soil with..C6-C9 by P/T Our Reference:	UNITS	SE76250-5 5	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-1 03
Your Reference	-----	QC3/1.0-1- 20m	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	25/02/2010
Date Extracted (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed (TRH C10-C36)		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50



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PAHs in Soil Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-1 9	SE76250-2 5
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP71/0.0- 0.10m	CTP74/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	22/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7
Nitrobenzene-d5	%	73	78	77	71	75
2-Fluorobiphenyl	%	64	71	67	80	71
<i>p</i> -Terphenyl-d14	%	76	83	79	79	77



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PAHs in Soil Our Reference:	UNITS	SE76250-2 9	SE76250-3 5	SE76250-5 3	SE76250-5 5	SE76250-5 7
Your Reference	-----	CTP3/0.0-0. 1m	CTP2/0.0-0. 1m	CTP08/1.0- 1.20m	QC3/1.0-1. 20m	CTP08/3.30 -3.50m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	0.28	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	0.11	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.18	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	0.12	<0.10	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<2.04	<1.7	<1.7	<1.7	<1.7
Nitrobenzene-d5	%	81	84	85	74	79
2-Fluorobiphenyl	%	74	76	80	77	71
<i>p</i> -Terphenyl-d14	%	77	84	88	84	81



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PAHs in Soil Our Reference:	UNITS	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-8 5	SE76250-1 01
Your Reference	-----	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP45/0.0- 0.10m	CTP38/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	25/02/2010	25/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	0.13	<0.10	0.16
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	0.28	<0.10	0.22
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	0.19	<0.10	0.14
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<2.05	<1.7	<1.97
Nitrobenzene-d5	%	88	76	88	86	98
2-Fluorobiphenyl	%	81	71	78	70	88
<i>p</i> -Terphenyl-d14	%	88	87	90	87	102



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PAHs in Soil Our Reference:	UNITS	SE76250-1 03
Your Reference	-----	CTP38/0.6- 0.80m
Sample Matrix Date Sampled	-----	Soil 25/02/2010
Date Extracted		5/03/2010
Date Analysed		5/03/2010
Naphthalene	mg/kg	<0.10
2-Methylnaphthalene	mg/kg	<0.10
1-Methylnaphthalene	mg/kg	<0.10
Acenaphthylene	mg/kg	<0.10
Acenaphthene	mg/kg	<0.10
Fluorene	mg/kg	<0.10
Phenanthrene	mg/kg	<0.10
Anthracene	mg/kg	<0.10
Fluoranthene	mg/kg	<0.10
Pyrene	mg/kg	<0.10
Benzo[a]anthracene	mg/kg	<0.10
Chrysene	mg/kg	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20
Benzo[a]pyrene	mg/kg	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10
Benzo[ghi]perylene	mg/kg	<0.10
Total PAHs (sum)	mg/kg	<1.7
Nitrobenzene-d5	%	90
2-Fluorobiphenyl	%	74
<i>p</i> -Terphenyl-d14	%	91



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OC Pesticides in Soil Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-1 9	SE76250-2 5
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0- 10m	CTP68/0.4- 0.50	CTP71/0.0- 0.10m	CTP74/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	22/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	101	101	97	99	96



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OC Pesticides in Soil Our Reference:	UNITS	SE76250-2 9	SE76250-3 5	SE76250-4 7	SE76250-5 3	SE76250-5 5
Your Reference	-----	CTP3/0.0-0. 1m	CTP2/0.0-0. 1m	CTP7/0.0-0. 10m	CTP08/1.0- 1.20m	QC3/1.0-1. 20m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	97	97	91	89	93



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OC Pesticides in Soil Our Reference:	UNITS	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-8 5	SE76250-1 01
Your Reference	-----	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP45/0.0- 0.10m	CTP38/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	25/02/2010	25/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	101	81	90	94	90



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OC Pesticides in Soil		
Our Reference:	UNITS	SE76250-1 03
Your Reference	-----	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil
Date Sampled		25/02/2010
Date Extracted		5/03/2010
Date Analysed		8/03/2010
HCB	mg/kg	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
<i>beta</i> -BHC	mg/kg	<0.1
<i>delta</i> -BHC	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	89



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PCBs in Soil Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-2 9	SE76250-5 3
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP3/0.0-0. 1m	CTP08/1.0- 1.20m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	23/02/2010	24/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	101	101	97	99	89

PCBs in Soil Our Reference:	UNITS	SE76250-5 5	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-1 03
Your Reference	-----	QC3/1.0-1. 20m	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	25/02/2010
Date Extracted		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	93	101	81	90	89



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SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499
www.au.sgs.com

Metals in Soil by ICP-OES						
Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-1 9	SE76250-2 5
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP71/0.0- 0.10m	CTP74/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	22/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	4	4	<3	3	<3
Cadmium	mg/kg	0.4	0.5	0.3	0.4	0.4
Chromium	mg/kg	21	22	21	18	22
Copper	mg/kg	21	19	19	28	36
Lead	mg/kg	16	16	9.5	15	11
Nickel	mg/kg	7.4	7.6	5.6	6.9	9.1
Zinc	mg/kg	54	56	43	54	74

Metals in Soil by ICP-OES						
Our Reference:	UNITS	SE76250-2 9	SE76250-3 5	SE76250-5 3	SE76250-5 5	SE76250-5 7
Your Reference	-----	CTP3/0.0-0. 1m	CTP2/0.0-0. 1m	CTP08/1.0- 1.20m	QC3/1.0-1. 20m	CTP08/3.30 -3.50m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	<3	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	0.5	<0.3	<0.3	<0.3
Chromium	mg/kg	3.7	6.3	10	8.1	13
Copper	mg/kg	25	73	59	60	14
Lead	mg/kg	19	29	10	10	6
Nickel	mg/kg	3.7	5.3	6.9	5.0	7.4
Zinc	mg/kg	35	43	32	31	34



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Metals in Soil by ICP-OES						
Our Reference:	UNITS	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-8 5	SE76250-1 01
Your Reference	-----	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP45/0.0- 0.10m	CTP38/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	25/02/2010	25/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	5	<3	3	5	<3
Cadmium	mg/kg	0.4	<0.3	0.4	0.4	0.3
Chromium	mg/kg	9.1	5.9	37	15	2.9
Copper	mg/kg	21	7.3	21	26	21
Lead	mg/kg	15	4	23	20	16
Nickel	mg/kg	2.8	4.7	9.3	12	4.2
Zinc	mg/kg	27	41	49	79	52

Metals in Soil by ICP-OES		
Our Reference:	UNITS	SE76250-1 03
Your Reference	-----	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil
Date Sampled		25/02/2010
Date Extracted (Metals)		8/03/2010
Date Analysed (Metals)		8/03/2010
Arsenic	mg/kg	<3
Cadmium	mg/kg	<0.3
Chromium	mg/kg	11
Copper	mg/kg	11
Lead	mg/kg	9
Nickel	mg/kg	4.2
Zinc	mg/kg	17



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Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-1 9	SE76250-2 5
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP71/0.0- 0.10m	CTP74/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	22/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	0.07	0.06	0.06	0.08	0.06

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE76250-2 9	SE76250-3 5	SE76250-5 3	SE76250-5 5	SE76250-5 7
Your Reference	-----	CTP3/0.0-0. 1m	CTP2/0.0-0. 1m	CTP08/1.0- 1.20m	QC3/1.0-1. 20m	CTP08/3.30 -3.50m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	0.06	<0.05	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-8 5	SE76250-1 01
Your Reference	-----	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP45/0.0- 0.10m	CTP38/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	25/02/2010	25/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	<0.05	<0.05	0.05	0.09	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE76250-1 03
Your Reference	-----	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil
Date Sampled		25/02/2010
Date Extracted (Mercury)		8/03/2010
Date Analysed (Mercury)		8/03/2010
Mercury	mg/kg	<0.05



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Asbestos ID in soil Our Reference:	UNITS	SE76250-3	SE76250-1 0	SE76250-2 0	SE76250-2 6	SE76250-3 0
Your Reference	-----	CTP67/0.0- 0.10m (Bag-zip)	CTP68/0.4- 0.50 (Bag-zip)	CTP71/0.0- 0.10m (Bag-zip)	CTP74/0.0- 0.10m (Bag-zip)	CTP3/0.0-0. 1m (Bag-zip)
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	23/02/2010
Date Analysed		9/03/2010	9/03/2010	9/03/2010	9/03/2010	9/03/2010
Sample Description		180g soil	290g soil,clay	190g soil	315g soil	84g soil,rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected

Asbestos ID in soil Our Reference:	UNITS	SE76250-3 6	SE76250-5 4	SE76250-5 8	SE76250-6 4	SE76250-7 0
Your Reference	-----	CTP2/0.0-0. 1m (Bag-zip)	CTP08/1.0- 1.20m (Bag-zip)	CTP08/3.30 -3.50m (Bag-zip)	CTP09/3.2- 3.40m (Bag-zip)	CTP12/0.6- 0.80m (Bag-zip)
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	24/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Analysed		9/03/2010	9/03/2010	9/03/2010	9/03/2010	9/03/2010
Sample Description		58g soil	268g soil	350g clay,rocks	330g soil,plant matter	210g Clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected	No asbestos detected



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Asbestos ID in soil Our Reference:	UNITS	SE76250-8 0	SE76250-8 6	SE76250-1 02	SE76250-1 04
Your Reference	-----	CTP43/0.0- 0.10m (Bag-zip)	CTP45/0.0- 0.10m (Bag-zip)	CTP38/0.0- 0.10m (Bag-zip)	CTP38/0.6- 0.80m (Bag-zip)
Sample Matrix Date Sampled	-----	Soil 24/02/2010	Soil 25/02/2010	Soil 25/02/2010	Soil 25/02/2010
Date Analysed		9/03/2010	9/03/2010	9/03/2010	9/03/2010
Sample Description		330g soil,rocks	150g soil	328g Soil,rocks	328g soil,rocks
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected Organic fibres detected*	No asbestos detected



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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499
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Moisture						
Our Reference:	UNITS	SE76250-1	SE76250-2	SE76250-9	SE76250-1 9	SE76250-2 5
Your Reference	-----	CTP67/0.0- 0.10m	QC1/0.0-0. 10m	CTP68/0.4- 0.50	CTP71/0.0- 0.10m	CTP74/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		22/02/2010	22/02/2010	22/02/2010	22/02/2010	22/02/2010
Date Analysed (moisture)		6/03/2010	6/03/2010	6/03/2010	6/03/2010	6/03/2010
Moisture	%	25	24	22	24	18

Moisture						
Our Reference:	UNITS	SE76250-2 9	SE76250-3 5	SE76250-4 7	SE76250-5 3	SE76250-5 5
Your Reference	-----	CTP3/0.0-0. 1m	CTP2/0.0-0. 1m	CTP7/0.0-0. 10m	CTP08/1.0- 1.20m	QC3/1.0-1. 20m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		23/02/2010	23/02/2010	24/02/2010	24/02/2010	24/02/2010
Date Analysed (moisture)		6/03/2010	6/03/2010	6/03/2010	6/03/2010	6/03/2010
Moisture	%	4	25	5	14	14

Moisture						
Our Reference:	UNITS	SE76250-5 7	SE76250-6 3	SE76250-6 9	SE76250-7 9	SE76250-8 5
Your Reference	-----	CTP08/3.30 -3.50m	CTP09/3.2- 3.40m	CTP12/0.6- 0.80m	CTP43/0.0- 0.10m	CTP45/0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		24/02/2010	24/02/2010	24/02/2010	24/02/2010	25/02/2010
Date Analysed (moisture)		6/03/2010	6/03/2010	6/03/2010	6/03/2010	6/03/2010
Moisture	%	14	12	21	11	29

Moisture			
Our Reference:	UNITS	SE76250-1 01	SE76250-1 03
Your Reference	-----	CTP38/0.0- 0.10m	CTP38/0.6- 0.80m
Sample Matrix	-----	Soil	Soil
Date Sampled		25/02/2010	25/02/2010
Date Analysed (moisture)		6/03/2010	6/03/2010
Moisture	%	6	13



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SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				4/03/2010	SE76250-53	4/03/2010 4/03/2010	SE76250-55	4/03/2010
Date Analysed (BTEX)				4/03/2010	SE76250-53	4/03/2010 4/03/2010	SE76250-55	4/03/2010
Benzene	mg/kg	0.1	SEO-018	<0.1	SE76250-53	<0.1 <0.1	SE76250-55	86%
Toluene	mg/kg	0.1	SEO-018	<0.1	SE76250-53	<0.1 <0.1	SE76250-55	93%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE76250-53	<0.1 <0.1	SE76250-55	92%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE76250-53	<0.3 <0.3	SE76250-55	103%
BTEX Surrogate (%)	%	0	SEO-018	126	SE76250-53	91 75 RPD: 19	SE76250-55	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				4/03/2010	SE76250-53	4/03/2010 4/03/2010	SE76250-55	4/03/2010
Date Analysed (TRH C6-C9 PT)				4/03/2010	SE76250-53	4/03/2010 4/03/2010	SE76250-55	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-018	<20	SE76250-53	<20 <20	SE76250-55	108%
Date Extracted (TRH C10-C36)				5/03/2010	SE76250-53	5/03/2010 [N/T]	[NR]	[NR]
Date Analysed (TRH C10-C36)				5/03/2010	SE76250-53	5/03/2010 [N/T]	[NR]	[NR]
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	SE76250-53	<20 [N/T]	[NR]	[NR]
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	SE76250-53	<50 [N/T]	[NR]	[NR]
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	SE76250-53	<50 [N/T]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				05/03/10	SE76250-1	5/03/2010 5/03/2010	SE76250-19	05/03/10
Date Analysed				05/03/10	SE76250-1	5/03/2010 5/03/2010	SE76250-19	05/03/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	89%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	87%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	105%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	94%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	100%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	96%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	SE76250-19	100%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE76250-1	<0.20 <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE76250-1	<0.05 <0.05	SE76250-19	92%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE76250-1	<0.10 <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE76250-1	<1.7 <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	76	SE76250-1	73 81 RPD: 10	SE76250-19	76%
2-Fluorobiphenyl	%	0	SEO-030	73	SE76250-1	64 71 RPD: 10	SE76250-19	70%
p -Terphenyl-d14	%	0	SEO-030	84	SE76250-1	76 83 RPD: 9	SE76250-19	78%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				05/03/10	SE76250-2	5/03/2010 5/03/2010	SE76250-25	05/03/10
Date Analysed				08/03/10	SE76250-2	8/03/2010 8/03/2010	SE76250-25	08/03/10
HCB	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	116%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	119%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	111%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	112%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	121%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-25	111%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xy lene (<i>Surrogate</i>)	%	0	SEO-005	104	SE76250-2	101 105 RPD: 4	SE76250-25	96%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				05/03/10	SE76250-2	5/03/2010 5/03/2010	SE76250-29	05/03/10
Date Analysed				08/03/10	SE76250-2	8/03/2010 8/03/2010	SE76250-29	08/03/10
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	SE76250-29	76%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE76250-2	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE76250-2	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	104	SE76250-2	101 105 RPD: 4	SE76250-29	94%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				8/03/2010	SE76250-1	8/03/2010 8/03/2010	SE76250-1	8/03/2010
Date Analysed (Metals)				8/03/2010	SE76250-1	8/03/2010 8/03/2010	SE76250-1	8/03/2010
Arsenic	mg/kg	3	SEM-010	<3	SE76250-1	4 4 RPD: 0	SE76250-1	96%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE76250-1	0.4 0.4 RPD: 0	SE76250-1	99%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE76250-1	21 22 RPD: 5	SE76250-1	100%
Copper	mg/kg	0.5	SEM-010	<0.5	SE76250-1	21 21 RPD: 0	SE76250-1	98%
Lead	mg/kg	1	SEM-010	<1	SE76250-1	16 15 RPD: 6	SE76250-1	98%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE76250-1	7.4 6.7 RPD: 10	SE76250-1	98%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE76250-1	54 54 RPD: 0	SE76250-1	99%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				8/03/2010	SE76250-1	8/03/2010 8/03/2010	LCS	8/03/2010
Date Analysed (Mercury)				8/03/2010	SE76250-1	8/03/2010 8/03/2010	LCS	8/03/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	SE76250-1	0.07 0.07 RPD: 0	LCS	114%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- NO test required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T					
Date Extracted (TRH C10-C36)		SE76250-1	5/03/2010 5/03/2010	LCS	5/03/2010
Date Analysed (TRH C10-C36)		SE76250-1	5/03/2010 5/03/2010	LCS	5/03/2010
TRH C10 - C14	mg/kg	SE76250-1	<20 <20	LCS	108%
TRH C15 - C28	mg/kg	SE76250-1	<50 <50	LCS	122%
TRH C29 - C36	mg/kg	SE76250-1	<50 <50	LCS	92%



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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE76250-5 7	5/03/2010 5/03/2010
Date Analysed		SE76250-5 7	5/03/2010 5/03/2010
Naphthalene	mg/kg	SE76250-5 7	<0.10 <0.10
2-Methylnaphthalene	mg/kg	SE76250-5 7	<0.10 <0.10
1-Methylnaphthalene	mg/kg	SE76250-5 7	<0.10 <0.10
Acenaphthylene	mg/kg	SE76250-5 7	<0.10 <0.10
Acenaphthene	mg/kg	SE76250-5 7	<0.10 <0.10
Fluorene	mg/kg	SE76250-5 7	<0.10 <0.10
Phenanthrene	mg/kg	SE76250-5 7	<0.10 <0.10
Anthracene	mg/kg	SE76250-5 7	<0.10 <0.10
Fluoranthene	mg/kg	SE76250-5 7	<0.10 <0.10
Pyrene	mg/kg	SE76250-5 7	<0.10 <0.10
Benzo[a]anthracene	mg/kg	SE76250-5 7	<0.10 <0.10
Chrysene	mg/kg	SE76250-5 7	<0.10 <0.10
Benzo[b,k]fluoranthene	mg/kg	SE76250-5 7	<0.20 <0.20
Benzo[a]pyrene	mg/kg	SE76250-5 7	<0.05 <0.05
Indeno[123-cd]pyrene	mg/kg	SE76250-5 7	<0.10 <0.10
Dibenzo[ah]anthracene	mg/kg	SE76250-5 7	<0.10 <0.10
Benzo[ghi]perylene	mg/kg	SE76250-5 7	<0.10 <0.10
Total PAHs (sum)	mg/kg	SE76250-5 7	<1.7 <1.7
Nitrobenzene-d5	%	SE76250-5 7	79 80 RPD: 1
2-Fluorobiphenyl	%	SE76250-5 7	71 75 RPD: 5



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QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate
PAHs in Soil			Base + Duplicate + %RPD
<i>p</i> -Terphenyl- <i>d</i> 14	%	SE76250-5 7	81 84 RPD: 4

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate
OC Pesticides in Soil			Base + Duplicate + %RPD
Date Extracted		SE76250-8 5	5/03/2010 5/03/2010
Date Analysed		SE76250-8 5	8/03/2010 8/03/2010
HCB	mg/kg	SE76250-8 5	<0.1 <0.1
<i>alpha</i> -BHC	mg/kg	SE76250-8 5	<0.1 <0.1
gamma-BHC (Lindane)	mg/kg	SE76250-8 5	<0.1 <0.1
Heptachlor	mg/kg	SE76250-8 5	<0.1 <0.1
Aldrin	mg/kg	SE76250-8 5	<0.1 <0.1
<i>beta</i> -BHC	mg/kg	SE76250-8 5	<0.1 <0.1
<i>delta</i> -BHC	mg/kg	SE76250-8 5	<0.1 <0.1
Heptachlor Epoxide	mg/kg	SE76250-8 5	<0.1 <0.1
<i>o,p</i> -DDE	mg/kg	SE76250-8 5	<0.1 <0.1
<i>alpha</i> -Endosulfan	mg/kg	SE76250-8 5	<0.1 <0.1
<i>trans</i> -Chlordane	mg/kg	SE76250-8 5	<0.1 <0.1
<i>cis</i> -Chlordane	mg/kg	SE76250-8 5	<0.1 <0.1
<i>trans</i> -Nonachlor	mg/kg	SE76250-8 5	<0.1 <0.1
<i>p,p</i> -DDE	mg/kg	SE76250-8 5	<0.1 <0.1
Dieldrin	mg/kg	SE76250-8 5	<0.1 <0.1
Endrin	mg/kg	SE76250-8 5	<0.1 <0.1
<i>o,p</i> -DDD	mg/kg	SE76250-8 5	<0.1 <0.1



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QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
<i>o,p</i> -DDT	mg/kg	SE76250-8 5	<0.1 <0.1
<i>beta</i> -Endosulfan	mg/kg	SE76250-8 5	<0.1 <0.1
<i>p,p</i> -DDD	mg/kg	SE76250-8 5	<0.1 <0.1
<i>p,p</i> -DDT	mg/kg	SE76250-8 5	<0.1 <0.1
Endosulfan Sulphate	mg/kg	SE76250-8 5	<0.1 <0.1
Endrin Aldehyde	mg/kg	SE76250-8 5	<0.1 <0.1
Methoxychlor	mg/kg	SE76250-8 5	<0.1 <0.1
Endrin Ketone	mg/kg	SE76250-8 5	<0.1 <0.1
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	SE76250-8 5	94 96 RPD: 2

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE76250-6 3	8/03/2010 8/03/2010
Date Analysed (Metals)		SE76250-6 3	8/03/2010 8/03/2010
Arsenic	mg/kg	SE76250-6 3	5 6 RPD: 18
Cadmium	mg/kg	SE76250-6 3	0.4 0.4 RPD: 0
Chromium	mg/kg	SE76250-6 3	9.1 11 RPD: 19
Copper	mg/kg	SE76250-6 3	21 16 RPD: 27
Lead	mg/kg	SE76250-6 3	15 17 RPD: 12
Nickel	mg/kg	SE76250-6 3	2.8 2.9 RPD: 4
Zinc	mg/kg	SE76250-6 3	27 33 RPD: 20



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QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE76250-6 3	8/03/2010 8/03/2010
Date Analysed (Mercury)		SE76250-6 3	8/03/2010 8/03/2010
Mercury	mg/kg	SE76250-6 3	<0.05 <0.05



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Result Codes

[INS]	: Insufficient Sample for this test	[RPD]	: Relative Percentage Difference
[NR]	: Not Requested	*	: Not part of NATA Accreditation
[NT]	: Not tested	[N/A]	: Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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This document is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

 Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

 Project : ENVIWOLL00250AB
 Order Number : 27860-69
 Samples : 107 Soils

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

 Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

 Report No : **SE76250**
 No. of Samples : 110
 Due Date : 9/03/2010

Date Instructions Received : 1/03/2010
 Sample Receipt Date : 26/2/10

Samples received in good order	: YES	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice
Sample containers provided by	: SGS	Samples clearly Labelled	: NO
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Instructions received 1/3/10 @ 5:03pm

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
1	CTP67/0.0-0.10m	X	X	X	X	X	X	X	X			X
2	QC1/0.0-0.10m	X	X	X	X	X	X	X	X			X
3	CTP67/0.0-0.10m (Bag-zip)									X		
4	QC1/0.0-0.10m (Bag-zip)										X	
5	CTP67/1.30-1.50m										X	
6	CTP67/1.30-1.50m (Bag-zip)										X	
7	CTP68/0.0-0.10m										X	
8	CTP68/0.0-0.10m (Bag-zip)										X	
9	CTP68/0.4-0.50	X	X	X	X	X	X	X	X			X
10	CTP68/0.4-0.50 (Bag-zip)									X		
11	CTP68/1.4-1.6										X	
12	CTP68/1.4-1.6 (Bag-zip)										X	
13	CTP69/0.0-0.10m										X	
14	CTP69/0.0-0.10m (Bag-zip)										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
15	CTP69/0.8-1.0m										X	
16	CTP69/0.8-1.0m (Bag-zip)										X	
17	CTP70/0.0-0.10m										X	
18	CTP70/0.0-0.10m (Bag-zip)										X	
19	CTP71/0.0-0.10m	X			X	X		X	X			X
20	CTP71/0.0-0.10m (Bag-zip)									X		
21	CTP72/0.0-0.10m										X	
22	CTP72/0.0-0.10m (Bag-zip)										X	
23	CTP73/0.0-0.10m										X	
24	CTP73/0.0-0.10m (Bag-zip)										X	
25	CTP74/0.0-0.10m	X			X	X		X	X			X
26	CTP74/0.0-0.10m (Bag-zip)									X		
27	CTP74/1.0-1.2m										X	
28	CTP74/1.0-1.2m (Bag-zip)										X	
29	CTP3/0.0-0.1m	X	X	X	X	X	X	X	X			X
30	CTP3/0.0-0.1m (Bag-zip)									X		
31	CTP3/0.3-0.4m										X	
32	CTP3/0.3-0.4m (Bag-zip)										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
33	CTP3/0.6-0.7m										X	
34	CTP3/0.6-0.7m (Bag-zip)										X	
35	CTP2/0.0-0.1m	X			X	X		X	X			X
36	CTP2/0.0-0.1m (Bag-zip)									X		
37	CTP2/0.4-0.5m										X	
38	CTP2/0.4-0.5m (Bag-zip)										X	
39	CTP1/0.0-0.1m										X	
40	CTP1/0.0-0.1m (Bag-zip)										X	
41	CTP4/0.0-0.1m										X	
42	CTP4/0.0-0.1m (Bag-zip)										X	
43	CTP5/0.0-0.1m										X	
44	CTP5/0.0-0.1m (Bag-zip)										X	
45	CTP6/0.0-0.1m										X	
46	CTP6/0.0-0.1m (Bag-zip)										X	
47	CTP7/0.0-0.10m					X						X
48	CTP7/0.0-0.10m (Bag-zip)										X	
49	QC2/0.0-0.10m										X	
50	QC2/0.0-0.10m (Bag-zip)										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
51	CTP08/0.0-0.10m										X	
52	CTP08/0.0-0.10m (Bag-zip)										X	
53	CTP08/1.0-1.20m	X	X	X	X	X	X	X	X			X
54	CTP08/1.0-1.20m (Bag-zip)									X		
55	QC3/1.0-1.20m	X	X	X	X	X	X	X	X			X
56	QC3/1.0-1.20m (Bag-zip)										X	
57	CTP08/3.30-3.50m	X			X			X	X			X
58	CTP08/3.30-3.50m (Bag-zip)									X		
59	CTP09/0.0-0.10m										X	
60	CTP09/0.0-0.10m (Bag-zip)										X	
61	CTP09/2.1-2.40m										X	
62	CTP09/2.1-2.40m (Bag-zip)										X	
63	CTP09/3.2-3.40m	X	X	X	X	X	X	X	X			X
64	CTP09/3.2-3.40m (Bag-zip)									X		
65	CTP10/0.0-0.10m										X	
66	CTP10/0.0-0.10m (Bag-zip)										X	
67	CTP12/0.0-0.10m										X	
68	CTP12/0.0-0.10m (Bag-zip)										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
69	CTP12/0.6-0.80m	X	X	X	X	X	X	X	X			X
70	CTP12/0.6-0.80m (Bag-zip)									X		
71	CTP11/0.0-0.10m										X	
72	CTP11/0.0-0.10m (Bag-zip)										X	
73	CTP13/0.0-0.10m										X	
74	CTP13/0.0-0.10m (Bag-zip)										X	
75	CTP42/0.0-0.10m										X	
76	CTP42/0.0-0.10m (Bag-zip)										X	
77	CTP42/0.3-0.50m										X	
78	CTP42/0.3-0.50m (Bag-zip)										X	
79	CTP43/0.0-0.10m	X	X	X	X	X	X	X	X			X
80	CTP43/0.0-0.10m (Bag-zip)									X		
81	CTP43/0.3-0.40m										X	
82	CTP43/0.3-0.40m (Bag-zip)										X	
83	CTP46/0.0-0.10m										X	
84	CTP46/0.0-0.10m (Bag-zip)										X	
85	CTP45/0.0-0.10m	X			X	X		X	X			X
86	CTP45/0.0-0.10m (Bag-zip)									X		

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with..C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
87	CTP45/1.60-1.70m										X	
88	CTP45/1.60-1.70m (Bag-zip)										X	
90	CTP45/4.0-4.20m										X	
91	CTP44/0.0-0.10m										X	
92	CTP44/0.0-0.10m (Bag-zip)										X	
93	CTP44A/0.0-0.10m										X	
94	CTP44A/0.0-0.10m (Bag-zip)										X	
96	CTP44B/0.0-0.10m										X	
97	CTP44B/0.0-0.10m (Bag-zip)										X	
99	CTP44B/0.6-0.80m										X	
100	CTP44B/0.6-0.80m (Bag-zip)										X	
101	CTP38/0.0-0.10m	X			X	X		X	X			X
102	CTP38/0.0-0.10m (Bag-zip)									X		
103	CTP38/0.6-0.80m	X	X	X	X	X	X	X	X			X
104	CTP38/0.6-0.80m (Bag-zip)									X		
105	CTP38/1.6-1.70m										X	
106	CTP38/1.6-1.70m (Bag-zip)										X	
107	CTP39/0.0-0.10m										X	
108	CTP39/0.0-0.10m (Bag-zip)										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with..C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
109	CTP40/0.0-0.10m										X	
110	CTP40/0.0-0.10m (Bag-zip)										X	

Sample No.	Description
1	CTP67/0.0-0.10m
2	QC1/0.0-0.10m
3	CTP67/0.0-0.10m (Bag-zip)
4	QC1/0.0-0.10m (Bag-zip)
5	CTP67/1.30-1.50m
6	CTP67/1.30-1.50m (Bag-zip)
7	CTP68/0.0-0.10m
8	CTP68/0.0-0.10m (Bag-zip)
9	CTP68/0.4-0.50
10	CTP68/0.4-0.50 (Bag-zip)
11	CTP68/1.4-1.6
12	CTP68/1.4-1.6 (Bag-zip)

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description
13	CTP69/0.0-0.10m
14	CTP69/0.0-0.10m (Bag-zip)
15	CTP69/0.8-1.0m
16	CTP69/0.8-1.0m (Bag-zip)
17	CTP70/0.0-0.10m
18	CTP70/0.0-0.10m (Bag-zip)
19	CTP71/0.0-0.10m
20	CTP71/0.0-0.10m (Bag-zip)
21	CTP72/0.0-0.10m
22	CTP72/0.0-0.10m (Bag-zip)
23	CTP73/0.0-0.10m
24	CTP73/0.0-0.10m (Bag-zip)
25	CTP74/0.0-0.10m
26	CTP74/0.0-0.10m (Bag-zip)
27	CTP74/1.0-1.2m
28	CTP74/1.0-1.2m (Bag-zip)
29	CTP3/0.0-0.1m
30	CTP3/0.0-0.1m (Bag-zip)
31	CTP3/0.3-0.4m
32	CTP3/0.3-0.4m (Bag-zip)
33	CTP3/0.6-0.7m
34	CTP3/0.6-0.7m (Bag-zip)

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description
35	CTP2/0.0-0.1m
36	CTP2/0.0-0.1m (Bag-zip)
37	CTP2/0.4-0.5m
38	CTP2/0.4-0.5m (Bag-zip)
39	CTP1/0.0-0.1m
40	CTP1/0.0-0.1m (Bag-zip)
41	CTP4/0.0-0.1m
42	CTP4/0.0-0.1m (Bag-zip)
43	CTP5/0.0-0.1m
44	CTP5/0.0-0.1m (Bag-zip)
45	CTP6/0.0-0.1m
46	CTP6/0.0-0.1m (Bag-zip)
47	CTP7/0.0-0.10m
48	CTP7/0.0-0.10m (Bag-zip)
49	QC2/0.0-0.10m
50	QC2/0.0-0.10m (Bag-zip)
51	CTP08/0.0-0.10m
52	CTP08/0.0-0.10m (Bag-zip)
53	CTP08/1.0-1.20m
54	CTP08/1.0-1.20m (Bag-zip)
55	QC3/1.0-1.20m
56	QC3/1.0-1.20m (Bag-zip)

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description
57	CTP08/3.30-3.50m
58	CTP08/3.30-3.50m (Bag-zip)
59	CTP09/0.0-0.10m
60	CTP09/0.0-0.10m (Bag-zip)
61	CTP09/2.1-2.40m
62	CTP09/2.1-2.40m (Bag-zip)
63	CTP09/3.2-3.40m
64	CTP09/3.2-3.40m (Bag-zip)
65	CTP10/0.0-0.10m
66	CTP10/0.0-0.10m (Bag-zip)
67	CTP12/0.0-0.10m
68	CTP12/0.0-0.10m (Bag-zip)
69	CTP12/0.6-0.80m
70	CTP12/0.6-0.80m (Bag-zip)
71	CTP11/0.0-0.10m
72	CTP11/0.0-0.10m (Bag-zip)
73	CTP13/0.0-0.10m
74	CTP13/0.0-0.10m (Bag-zip)
75	CTP42/0.0-0.10m
76	CTP42/0.0-0.10m (Bag-zip)
77	CTP42/0.3-0.50m
78	CTP42/0.3-0.50m (Bag-zip)

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description
79	CTP43/0.0-0.10m
80	CTP43/0.0-0.10m (Bag-zip)
81	CTP43/0.3-0.40m
82	CTP43/0.3-0.40m (Bag-zip)
83	CTP46/0.0-0.10m
84	CTP46/0.0-0.10m (Bag-zip)
85	CTP45/0.0-0.10m
86	CTP45/0.0-0.10m (Bag-zip)
87	CTP45/1.60-1.70m
88	CTP45/1.60-1.70m (Bag-zip)
90	CTP45/4.0-4.20m
91	CTP44/0.0-0.10m
92	CTP44/0.0-0.10m (Bag-zip)
93	CTP44A/0.0-0.10m
94	CTP44A/0.0-0.10m (Bag-zip)
96	CTP44B/0.0-0.10m
97	CTP44B/0.0-0.10m (Bag-zip)
99	CTP44B/0.6-0.80m
100	CTP44B/0.6-0.80m (Bag-zip)
101	CTP38/0.0-0.10m
102	CTP38/0.0-0.10m (Bag-zip)
103	CTP38/0.6-0.80m



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76250

Sample No.	Description
104	CTP38/0.6-0.80m (Bag-zip)
105	CTP38/1.6-1.70m
106	CTP38/1.6-1.70m (Bag-zip)
107	CTP39/0.0-0.10m
108	CTP39/0.0-0.10m (Bag-zip)
109	CTP40/0.0-0.10m
110	CTP40/0.0-0.10m (Bag-zip)



Chain of Custody

Laboratory Quotation / Order No:

Job No: **Euleco 250 AB** Sheet **3** of **3**

No: 27862

Dispatch to:
(Address &
Phone No.)

Sampled by: **CHRIS Appellaug**

Consigning Officer:
Date Dispatched:

Attention:

Project Manager:
(report results to) **Edele Owele**

Courier Service:
Consignment Note No:

Relinquished by:

Date: Time: Received by:

Date: Time: **26/12 1:30**

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt		
					PAHs	TPHs	MAHs = BTEX	Metals:	TPH/BTEX	OCP		PCB	Asbestos
CTP 74	Soil	Jer	0.0m - 0.10m	22/12/2010	/	/	/	/	/	/	/		
CTP 74		Bag - Zip	0.0m - 0.10m										
CTP 74		Bag (NI)	0.0m - 0.10m										
CTP 74		Bag	1.0m - 1.2m										
CTP 74		Bag - Zip	1.0m - 1.2m										
CTP 74		Bag (NI)	1.0m - 1.2m	22/12/2010	/	/	/	/	/	/	/		
CTP 3		Bag	0 - 0.1 m	21/12/10	/	/	/	/	/	/	/		
		Bag - Zip	0 - 0.1 m										
		Bag (NI)	0 - 0.1 m										
		Bag	0.3 - 0.4 m										
		Bag - Zip	0.3 - 0.4 m										
		Bag (NI)	0.3 - 0.4 m										
		Bag	0.6 - 0.7 m										
		Bag - Zip	0.6 - 0.7 m										
		Bag (NI)	0.6 - 0.7 m										
		Bag	0.6 - 0.7 m										
		Jer	0.0 - 0.1 m										
		Jer	0.0 - 0.1 m										
		Bag - Zip	0.0 - 0.1 m										
		Bag - Zip	0.0 - 0.1 m										

NI - Nit Induced

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.



Chain of Custody

Laboratory Quotation / Order No:

Job No: EWR02504B Sheet 6 of

No: 27865

Dispatch to:
(Address &
Phone No.)

Sampled by: *Chris Appikouf*

Consigning Officer:

Date Dispatched:

Attention:

Project Manager:
(report results to) *Coree Quire*

Carrier Service:

Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt							
					PAHs	TPHs	MAHs = BTEX	Metals:	THM/BTEX	OCF		PCB	Asbestos					
CTP09	Soil	Jar	13	0.0m to 0.10m	24/2/0													
CTP09		Bag - zip	10	0.0m to 0.10m														
CTP09		Bag	14	0.0m to 0.10m														
CTP09		Bag	9	2.1m to 2.40m														
CTP09		Bag - zip	2	2.10m to 2.40m														
CTP09		Bag	15	2.10m to 2.40m														
CTP09		Jar	3	2.2m to 3.40m														
CTP09		Bag - zip	14	3.20m to 3.40m														
CTP09		Bag	11	3.20m to 3.40m														
CTP10		Jar	6	0.0m to 0.10m														
CTP10		Bag - zip	4	0.0m to 0.10m														
CTP10		Bag	11	0.0m to 0.10m														
CTP12		Jar	67	0.0m to 0.10m														
CTP12		Bag - zip	48	0.0m to 0.10m														
CTP12		Bag	11	0.0m to 0.10m														
CTP12		Jar	5	0.6m to 0.80m														
CTP12		Bag - zip	70	0.60m to 0.80m														
CTP12		Bag	11	0.60m to 0.80m														

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

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Chain of Custody

Laboratory Quotation / Order No:

Job No: EW00250178 Sheet 7 of

No: 27866

Dispatch to:
(Address &
Phone No.)

Sampled by: **CITRUS APPRENTICE**

Consigning Officer:
Date Dispatched:

Attention:

Project Manager:
(report results to) **COFFEE QUIRLE**

Courier Service:
Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

EW

26/12

2.30

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required					Sample Condition on Receipt	
					PAHs	TPHs	MAHs = BTEX	Metals:			
CTP11	SAL	jar	1 + 0.0M to 0.10M	24/12/10				TM/BTEX			
CTP11		Bag - zip	2 0.0M to 0.10M					ACP			
CTP11		Bag	3 0.0M to 0.10M					PCB			
CTP13		Bag - zip	4 0.0M to 0.10M					Asbestos			
CTP13		Bag	5 0.0M to 0.10M								
CTP13		Bag	6 0.0M to 0.10M								
CTP42		Bag - zip	7 0.0M to 0.10M								
CTP42		Bag	8 0.0M to 0.10M								
CTP42		Bag - zip	9 0.3M to 0.50M								
CTP42		Bag	10 0.30M to 0.50M								
CTP42		Bag - zip	11 0.0M to 0.10M								
CTP43		Bag - zip	12 0.0M to 0.10M								
CTP43		Bag	13 0.0M to 0.10M								
CTP43		Bag - zip	14 0.0M to 0.10M								
CTP43		Bag	15 0.0M to 0.10M								
CTP43		Bag - zip	16 0.0M to 0.10M								
CTP43		Bag	17 0.0M to 0.10M								
CTP43		Bag - zip	18 0.0M to 0.10M								
CTP43		Bag	19 0.0M to 0.10M								
CTP43		Bag - zip	20 0.0M to 0.10M								
CTP43		Bag	21 0.0M to 0.10M								
CTP43		Bag - zip	22 0.0M to 0.10M								
CTP43		Bag	23 0.0M to 0.10M								
CTP43		Bag - zip	24 0.0M to 0.10M								
CTP43		Bag	25 0.0M to 0.10M								
CTP43		Bag - zip	26 0.0M to 0.10M								
CTP43		Bag	27 0.0M to 0.10M								
CTP43		Bag - zip	28 0.0M to 0.10M								
CTP43		Bag	29 0.0M to 0.10M								
CTP43		Bag - zip	30 0.0M to 0.10M								
CTP43		Bag	31 0.0M to 0.10M								
CTP43		Bag - zip	32 0.0M to 0.10M								
CTP43		Bag	33 0.0M to 0.10M								
CTP43		Bag - zip	34 0.0M to 0.10M								
CTP43		Bag	35 0.0M to 0.10M								
CTP43		Bag - zip	36 0.0M to 0.10M								
CTP43		Bag	37 0.0M to 0.10M								
CTP43		Bag - zip	38 0.0M to 0.10M								
CTP43		Bag	39 0.0M to 0.10M								
CTP43		Bag - zip	40 0.0M to 0.10M								
CTP43		Bag	41 0.0M to 0.10M								
CTP43		Bag - zip	42 0.0M to 0.10M								
CTP43		Bag	43 0.0M to 0.10M								
CTP43		Bag - zip	44 0.0M to 0.10M								
CTP43		Bag	45 0.0M to 0.10M								
CTP43		Bag - zip	46 0.0M to 0.10M								
CTP43		Bag	47 0.0M to 0.10M								
CTP43		Bag - zip	48 0.0M to 0.10M								
CTP43		Bag	49 0.0M to 0.10M								
CTP43		Bag - zip	50 0.0M to 0.10M								
CTP43		Bag	51 0.0M to 0.10M								
CTP43		Bag - zip	52 0.0M to 0.10M								
CTP43		Bag	53 0.0M to 0.10M								
CTP43		Bag - zip	54 0.0M to 0.10M								
CTP43		Bag	55 0.0M to 0.10M								
CTP43		Bag - zip	56 0.0M to 0.10M								
CTP43		Bag	57 0.0M to 0.10M								
CTP43		Bag - zip	58 0.0M to 0.10M								
CTP43		Bag	59 0.0M to 0.10M								
CTP43		Bag - zip	60 0.0M to 0.10M								
CTP43		Bag	61 0.0M to 0.10M								
CTP43		Bag - zip	62 0.0M to 0.10M								
CTP43		Bag	63 0.0M to 0.10M								
CTP43		Bag - zip	64 0.0M to 0.10M								
CTP43		Bag	65 0.0M to 0.10M								
CTP43		Bag - zip	66 0.0M to 0.10M								
CTP43		Bag	67 0.0M to 0.10M								
CTP43		Bag - zip	68 0.0M to 0.10M								
CTP43		Bag	69 0.0M to 0.10M								
CTP43		Bag - zip	70 0.0M to 0.10M								
CTP43		Bag	71 0.0M to 0.10M								
CTP43		Bag - zip	72 0.0M to 0.10M								
CTP43		Bag	73 0.0M to 0.10M								
CTP43		Bag - zip	74 0.0M to 0.10M								
CTP43		Bag	75 0.0M to 0.10M								
CTP43		Bag - zip	76 0.0M to 0.10M								
CTP43		Bag	77 0.0M to 0.10M								
CTP43		Bag - zip	78 0.0M to 0.10M								
CTP43		Bag	79 0.0M to 0.10M								
CTP43		Bag - zip	80 0.0M to 0.10M								
CTP43		Bag	81 0.0M to 0.10M								
CTP43		Bag - zip	82 0.0M to 0.10M								
CTP43		Bag	83 0.0M to 0.10M								
CTP43		Bag - zip	84 0.0M to 0.10M								
CTP43		Bag	85 0.0M to 0.10M								
CTP43		Bag - zip	86 0.0M to 0.10M								
CTP43		Bag	87 0.0M to 0.10M								
CTP43		Bag - zip	88 0.0M to 0.10M								
CTP43		Bag	89 0.0M to 0.10M								
CTP43		Bag - zip	90 0.0M to 0.10M								
CTP43		Bag	91 0.0M to 0.10M								
CTP43		Bag - zip	92 0.0M to 0.10M								
CTP43		Bag	93 0.0M to 0.10M								
CTP43		Bag - zip	94 0.0M to 0.10M								
CTP43		Bag	95 0.0M to 0.10M								
CTP43		Bag - zip	96 0.0M to 0.10M								
CTP43		Bag	97 0.0M to 0.10M								
CTP43		Bag - zip	98 0.0M to 0.10M								
CTP43		Bag	99 0.0M to 0.10M								
CTP43		Bag - zip	100 0.0M to 0.10M								

Special Laboratory Instructions:

NI - Not included

Turnaround Required:

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Chain of Custody

Laboratory Quotation / Order No:

Job No: **FAB0250AB**

Sheet **8** of

No: **27867**

Dispatch to:
(Address &
Phone No.)

Sampled by: **CHRIS APPELLKAMP**

Consigning Officer:
Date Dispatched:

Attention:

Project Manager:
(report results to) **COLLE DUDJEE**

Courier Service:
Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt			
					PAHs	TPHs	MAHs = BTEX	Metals:						
CTP46	Sol Jar	Bag - ZIP	83	0.0m - 0.10m	25/2/10									
CTP46	Bag	Bag - ZIP	84	0.0m - 0.10m										
CTP46	Bag	Bag - ZIP	85	0.0m - 0.10m										
CTP45	Bag	Bag - ZIP	86	0.0m - 0.10m										
		Bag - ZIP	87	0.0m - 0.10m										
		Bag - ZIP	88	0.0m - 0.10m										
		Bag	89	0.0m - 0.10m										
		Bag - ZIP	90	0.0m - 0.10m										
		Bag	91	0.0m - 0.10m										
		Bag - ZIP	92	0.0m - 0.10m										
		Bag	93	0.0m - 0.10m										
		Bag	94	0.0m - 0.10m										
		Bag	95	0.0m - 0.10m										

NI - Not included

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.



Chain of Custody

Laboratory Quotation / Order No:

Job No: Eul0025017B

Sheet 9 of

No: 27868

Dispatch to:
(Address &
Phone No.)

Sampled by: CHRIS APPELKAMP

Consigning Officer:
Date Dispatched:

Attention:

Project Manager:
(report results to)
COLLEEN QUANE

Courier Service:
Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt			
					PAHs	TPHs	MAHs - BTEX	Metals:	TPH/BTEX	Asbestos				
CTP441A	Soil	JAR	93	0.0M - 0.10M	25/2/10									
CTP441A		BAG - ZIP	94	0.0M - 0.10M										
CTP441A		BAG	ND	0.0M - 0.10M										
CTP441A		ASS BAG	55	0.0M - 0.10M										
CTP441B		JAR	96	0.0M - 0.10M										
CTP441B		BAG - ZIP	97	0.0M - 0.10M										
CTP441B		BAG	ND	0.0M - 0.10M										
CTP441B		ASS - BAG	58	0.0M - 0.10M										
CTP441B		JAR	99	0.6M - 0.80M										
CTP441B		BAG - ZIP	100	0.6M - 0.80M										
CTP441B	BAG	ND	0.6M - 0.80M											
CTP441B	ASS	ND	0.6M - 0.80M											
CTP441B	ASS	ND	0.6M - 0.80M											
CTP441B	JAR	101	0.0M to 0.10M											
CTP38		BAG - ZIP	102	0.0M to 0.10M										
CTP38		BAG	ND	0.0M to 0.10M										
CTP38		JAR	103	0.6M to 0.80M										

Special Laboratory Instructions:

Turnaround Required:

NS - Not included

Detection Limits: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

