

Appendix A – 2019 Soil Logs and Core Photos

DRILLHOLE ID: 19-18S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 15-Jan-19 **TO:** 16-Jan-19

COORDINATES: 619236.7 m E 6052454.1 m N

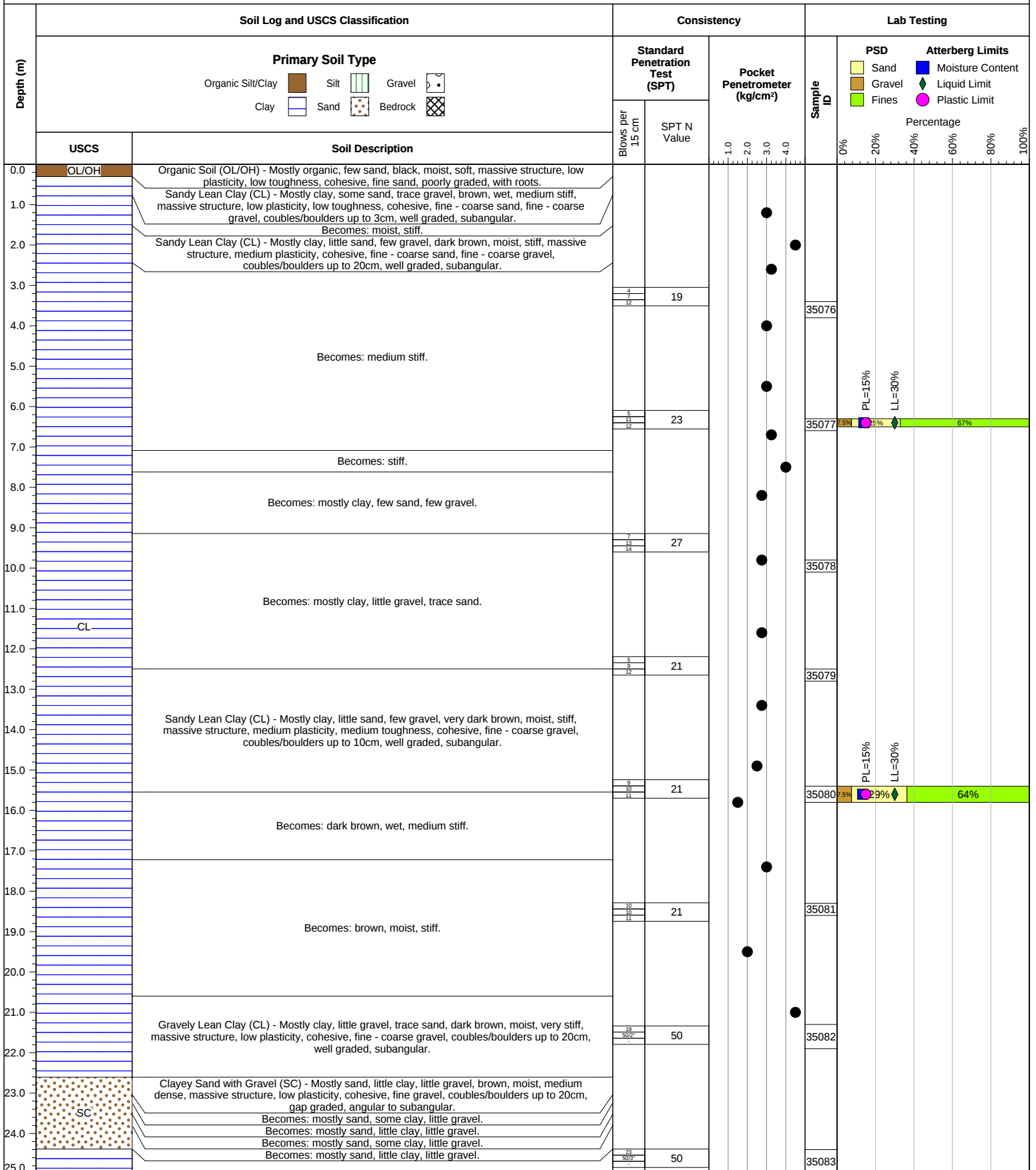
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 817.0

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 47.2

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-18S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 15-Jan-19 TO: 16-Jan-19

COORDINATES: 619236.7 m E 6052454.1 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 817.0

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 47.2

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing								
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits					
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit		
	USCS	Soil Description			Percentage										
			0%	20%	40%	60%	80%	100%							
25.0	CL	Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, dark brown, moist, very stiff, massive structure, low plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 10 cm, gap graded, subangular.													
26.0	CL														
27.0	GC	Clayey Gravel with Sand (GC) - Mostly gravel, some clay, little sand, dark brown, moist, very stiff, massive structure, low plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 10 cm, gap graded, subangular.													
28.0	CL	Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, brown, wet, very stiff, massive structure, low plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 10 cm, gap graded, subangular.													
29.0	SM														
30.0	SM	Silty Sand (SM) - Mostly sand, little silt, trace gravel, brown, moist, very dense, massive structure, non-plastic, cohesive, fine - med. sand, poorly graded.													
31.0			37	50											
32.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, dark brown, moist, very stiff, massive structure, no,low plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 5cm, gap graded, subangular.													
33.0	CL	Becomes: mostly clay, little sand, little gravel.													
34.0		Becomes: medium plasticity.													
35.0	SC	Clayey Sand (SC) - Mostly sand, little clay, few gravel, grey, moist, very dense, massive structure, no,medium plasticity, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 3cm, well graded, subangular.													
36.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, dark brown, moist, very stiff, massive structure, no,low plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 5cm, gap graded, subangular.													
37.0	CL														
38.0	CH	Fat Clay with Gravel (CH) - Mostly clay, few gravel, few sand, grey, wet, stiff, massive structure, no,high plasticity, cohesive, fine sand, coarse gravel, coubles/boulders up to 5cm, gap graded, subangular.													
39.0	CL	Gravelly Lean Clay (CL) - Mostly clay, little gravel, trace sand, dark brown, moist, very stiff, massive structure, no,low plasticity, cohesive, med. - coarse gravel, coubles/boulders up to 10cm, well graded, subangular.													
40.0	CL														
41.0		Becomes: brown.													
42.0	CH	Sandy Fat Clay (CH) - Mostly clay, little sand, few gravel, high plasticity, well graded.													
43.0															
44.0	Bedrock	Weathered Siltstone													
45.0	Bedrock														
46.0	Bedrock														
47.0	Bedrock														

DRILLHOLE ID: 19-19S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 17-Jan-19 **TO:** 19-Jan-19

COORDINATES: 618774.6 m E 6052170.6 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 840.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 47.2

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification					Consistency				Lab Testing							
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits				
						Blows per 15 cm	SPT N Value				0%	20%	40%	60%	80%	100%	
	USCS	Soil Description	1.0	2.0	3.0			4.0									
									0%	20%							40%
0.0		Gravely Lean Clay with Sand (CL) - Mostly clay, little gravel, little sand, brown, dry, stiff, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5 cm, well graded, subangular, with roots.															
1.0	CL	Becomes: no roots.															
2.0	SC	Gravely Lean Clay with Sand (CL) - Mostly clay, little gravel, little sand, brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5 cm, well graded, subangular.															
3.0	CL	Clayey Sand with Gravel (SC) - Mostly sand, some gravel, little clay, brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5 cm, well graded, subangular.															
3.0	SC	Gravely Lean Clay (CL) - Mostly clay, little gravel, few sand, dark brown, dry to moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine sand, cobbles/boulders up to 7cm, gap graded, subangular.	12 16 28	42						35087	 	 1%				50%	
4.0		Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, brown, dry, dense, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 8 cm, well graded, subangular.															
5.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark brown, dry, very stiff, massive structure, low plasticity, high toughness, cohesive, cobbles/boulders up to 10 cm, well graded, subangular.															
6.0	CL	Gravely Lean Clay with Sand (CL) - Mostly clay, little gravel, little sand, dark brown, dry, dense, massive structure, low plasticity, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5 cm, well graded, subangular.	8 20 40	50													
7.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark brown, dry, very stiff, massive structure, low plasticity, high toughness, cohesive, cobbles/boulders up to 10 cm, well graded, subangular.															
8.0	SC	Sandy Lean Clay (CL) - Mostly clay, little sand, brown, dry to moist, very stiff, massive structure, medium plasticity, low toughness, cohesive, fine - med. sand, well graded.								35088							
8.0	CL	Clayey Sand (SC) - Mostly sand, few clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, well graded.															
8.0	SC	Lean Clay (CL) - Mostly clay, few sand, brown, dry to moist, very stiff, massive structure, medium plasticity, low toughness, cohesive, fine - med. sand, well graded.															
9.0		Clayey Sand (SC) - Mostly sand, few clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, well graded.	26 41 60.2	50													
10.0		Lean Clay (CL) - Mostly clay, few sand, brown, dry to moist, very stiff, massive structure, medium plasticity, low toughness, cohesive, fine - med. sand, well graded.															
11.0		Lean Clay (CL) - Mostly clay, trace sand, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, well graded.															
12.0		Becomes: fine sand, poorly graded.								35089				95%			
13.0	CL		22 50.4	50													
14.0			32 50.4	50													
15.0		Becomes: mostly clay, some sand.								35090		44%			56%		
16.0			23 50.9	50													
17.0		Clayey Sand (SC) - Mostly sand, little clay, low plasticity, low toughness, fine sand, poorly graded.															
18.0																	
19.0	SC		24 29 50.2	50						35091			73%			27%	
20.0		Clayey Sand (SC) - Mostly sand, few clay, red brown, dry, very dense, massive structure, low plasticity, fine - med. sand, poorly graded.															
21.0																	
22.0	CL	Lean Clay (CL) - Mostly clay, few sand, trace gravel, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, poorly graded.	17 23 39	50						35093		12%			87%		
23.0																	
24.0		Clayey Sand (SC) - Mostly sand, few clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, well graded.															
25.0		Becomes: mostly sand, little clay, fine sand, poorly graded.	21 26 29	50													

DRILLHOLE ID: 19-19S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 17-Jan-19 **TO:** 19-Jan-19

COORDINATES: 618774.6 m E 6052170.6 m N

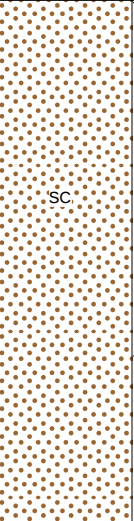
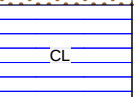
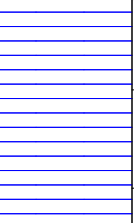
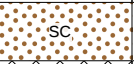
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 840.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 47.2

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing					
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits		
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit
	USCS	Soil Description			Percentage							
25.0	 SC	Becomes: mostly sand, some clay, trace gravel, dry to moist, fine - coarse sand, well graded.										
26.0												
27.0												
28.0												
29.0	 CL	Becomes: mostly sand, little clay, dark red-brown.										
30.0												
31.0												
32.0												
33.0	 SC	Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, dark brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine sand, coubles/boulders up to 3cm, gap graded, subangular.										
34.0												
35.0												
36.0												
37.0	 CL	Clayey Sand (SC) - Mostly sand, few clay, dark red-brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, well graded.										
38.0												
39.0												
40.0												
41.0	 CL	Gravelly Lean Clay (CL) - Mostly clay, little gravel, few sand, dark brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine sand, coubles/boulders up to 3cm, gap graded, subangular.										
42.0												
43.0												
44.0												
45.0	 SC	Becomes: mostly clay, few gravel, trace sand, medium plasticity, medium toughness.										
46.0												
47.0												
48.0												
49.0	 Bedrock	Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, dark brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine sand, coubles/boulders up to 3cm, gap graded, subangular.										
50.0												
51.0												
52.0												
53.0	 Bedrock	Becomes: mostly clay, trace sand, trace gravel.										
54.0												
55.0												
56.0												
57.0	Bedrock	Becomes: mostly clay, few gravel, trace sand.										
58.0												
59.0												
60.0												
61.0	Bedrock	Sandy Lean Clay with Gravel (CL) - Mostly clay, some sand, little gravel, dark brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, coubles/boulders up to 4cm, well graded, subangular.										
62.0												
63.0												
64.0												
65.0	Bedrock	Becomes: very dark brown.										
66.0												
67.0												
68.0												
69.0	Bedrock	Clayey Sand (SC) - Mostly sand, some clay, few gravel, brown, dry to moist, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.										
70.0												
71.0												
72.0												
73.0	Bedrock	Interbedded silt and Mudstone, weathered										
74.0												
75.0												
76.0												

DRILLHOLE ID: 19-20S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 **TO:** 21-Jan-19

COORDINATES: 616824.4 m E 6052440 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 859.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 44.2

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing												
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits									
			Blows per 15 cm	SPT N Value				 Sand	 Gravel	 Fines	Percentage								
											 Moisture Content	 Liquid Limit	 Plastic Limit						
	USCS	Soil Description		1.0	2.0	3.0	4.0	0%	20%	40%							60%	80%	100%
0.0	SP-SM	Poorly Graded Sand with Silt (SP-SM) - Mostly sand, few silt, few gravel, non-plastic, gap graded, with roots.. Becomes: no roots..																	
1.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, dark brown, dry, very stiff, massive structure, low plasticity, medium toughness, cohesive, coarse gravel, coubles/boulders up to 10 cm, well graded, angular to subangular.																	
	SC																		
2.0	CL	Clayey Sand with Gravel (SC) - Mostly sand, few clay, few gravel, dark brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 1cm, well graded, subangular.																	
3.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, dark brown, dry, very stiff, massive structure, low plasticity, medium toughness, cohesive, coarse gravel, coubles/boulders up to 10 cm, well graded, angular to subangular.	13 505	50															
4.0		Clayey Sand with Gravel (SC) - Mostly sand, little clay, little gravel, dark brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 1cm, well graded, subangular.																	
5.0		Clayey Sand with Gravel (SC) - Mostly sand, little gravel, little clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
6.0	SC	Becomes: mostly sand, some gravel, little clay.																	
			26 504	50															
7.0		Becomes: mostly sand, little gravel, little clay.																	
8.0		Clayey Sand with Gravel (SC) - Mostly sand, little gravel, little clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
9.0	GC	Clayey Gravel with Sand (GC) - Mostly gravel, some sand, little clay, red brown, dry, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
	SC	Clayey Sand with Gravel (SC) - Mostly sand, little clay, little gravel, red brown, dry, very dense, massive structure, medium plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.	38 50 137	50															
10.0																			
	SW-SC	Well-Graded Sand with Clay and Gravel (SW-SC) - Mostly sand, little gravel, few clay, red brown, dry, very dense, massive structure, medium plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
12.0		Well-Graded Gravel with Clay and Sand (GW-GC) - Mostly gravel, some sand, few clay, red brown, dry, very dense, massive structure, medium plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.	HB/4 -	50															
13.0																			
14.0	SC	Clayey Sand with Gravel (SC) - Mostly sand, little gravel, little clay, red brown, dry, very dense, massive structure, medium plasticity, low toughness, cohesive, coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
15.0																			
	CL	Gravelly Lean Clay (CL) - Mostly clay, little gravel, few sand, dark brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, coubles/boulders up to 3cm, well graded, subangular.																	
16.0		Clayey Sand with Gravel (SC) - Mostly sand, little gravel, little clay, red brown, dry, very dense, massive structure, medium plasticity, low toughness, cohesive, coarse sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																	
17.0	SC																		
		Becomes: mostly sand, little gravel, few clay, fine - coarse sand.																	
18.0			12 503	50															
19.0																			
		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, dark brown, dry to moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, med. - coarse gravel, coubles/boulders up to 5cm, gap graded, subangular.																	
20.0																			
21.0																			
		Becomes: mostly clay, little sand, few gravel, brown, moist, well graded.	10 15 16	31															
22.0																			
		Becomes: mostly clay, few gravel, trace sand.																	
23.0																			
		Becomes: stiff.																	
24.0																			
			7 20 32	50															
25.0																			

DRILLHOLE ID: 19-20S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 TO: 21-Jan-19

COORDINATES: 616824.4 m E 605244.0 m N

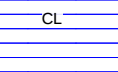
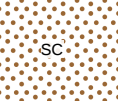
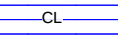
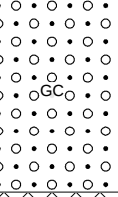
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 859.5

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 44.2

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing																				
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits																	
			Blows per 15 cm	SPT N Value				Sand	Gravel	Moisture Content	Liquid Limit	Plastic Limit															
	USCS	Soil Description					1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%											
25.0		CL	Sandy Lean Clay (CL) - Mostly clay, some sand, trace gravel, brown, dry to moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse sand, well graded.																								
26.0																											
27.0			Becomes: mostly clay, little sand. Becomes: mostly clay, some sand.													13 19 26	50	35060	16%		81%						
28.0																											
29.0			Becomes: mostly clay, little sand, trace gravel.																								
30.0			Becomes: mostly clay, some sand.													14 15 16	50										
31.0			Sandy Lean Clay (CL) - Mostly clay, some sand, brown, dry to moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse sand, well graded.																								
32.0			Becomes: mostly clay, little sand, few gravel, fine - coarse gravel, cobbles/boulders up to 5cm, subangular.																								
33.0			GC													Clayey Gravel with Sand (GC) - Mostly gravel, some sand, little clay, light red brown, dry to moist, very dense, massive structure, low plasticity, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, angular to subangular.						35061		47%		34%	19%
34.0			CL													Lean Clay with Sand (CL) - Mostly clay, few sand, few gravel, brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular to subrounded.											
35.0																											
36.0		SC	Clayey Sand with Gravel (SC) - Mostly sand, little clay, little gravel, dark brown, moist, very dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.						35062	22%		45%		33%													
37.0			Becomes: mostly sand, little clay, few gravel.																								
38.0		SW	Well-Graded Sand with Gravel (SW) - Mostly sand, some gravel, trace clay, light brown, dry, very dense, massive structure, low plasticity, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.																								
39.0		CL	Gravely Lean Clay (CL) - Mostly clay, little gravel, few sand, dark brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.																								
40.0																											
41.0		GC	Clayey Gravel with Sand (GC) - Mostly gravel, little sand, little clay, medium plasticity, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 8cm, well graded.																								
42.0																											
43.0		Bedrock	Weathered Siltstone																								
44.0																											

DRILLHOLE ID: 19-21S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 27-Jan-19

COORDINATES: 616975.8 m E 6052746.4 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 834.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 59.4

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing							
	Primary Soil Type		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm ²)		Sample ID	PSD		Atterberg Limits				
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Blows per 15 cm	SPT N Value	1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%
	USCS	Soil Description												
0.0														
1.0														
2.0	SM	Silty Sand (SM) - Mostly sand, little silt, few gravel, brown, dry to moist, loose, massive structure, slow, non-plastic, no toughness, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.												
3.0			4											
4.0			4	6										
5.0	CL	Lean Clay with Gravel (CL) - Mostly clay, few gravel, very dark brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.												
6.0			8											
7.0	SC	Clayey Sand (SC) - Mostly sand, some clay, trace gravel, red brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, poorly graded.	10	21										
8.0			11											
9.0														
10.0			12											
11.0	CL	Lean Clay (CL) - Mostly clay, few sand, trace gravel, red brown, moist, very stiff, massive structure, medium plasticity, low toughness, cohesive, fine - med. sand, poorly graded.	14	34										
12.0		Sandy Lean Clay with Gravel (CL) - Mostly clay, few sand, few gravel, very dark brown, moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse sand, coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular.	16											
13.0			17	37										
14.0	CL	Becomes: mostly clay, few gravel, trace sand, brown.	18											
15.0		Becomes: mostly clay, few sand, few gravel, very dark brown.	19											
16.0			20											
17.0			21	50										
18.0	GC	Clayey Gravel with Sand (GC) - Mostly gravel, little sand, little clay, brown, moist, dense, low plasticity, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.	22											
19.0	CL	Lean Clay (CL) - Mostly clay, few gravel, red brown, wet, hard, massive structure, medium plasticity, medium toughness, cohesive, coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	23	29										
20.0		Clayey Gravel with Sand (GC) - Mostly gravel, little sand, brown, moist, dense, low plasticity, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.	24											
21.0		Lean Clay (CL) - Mostly clay, few gravel, red brown, wet, hard, massive structure, medium plasticity, medium toughness, cohesive, coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	25											
22.0	SW	Becomes: stiff.	26											
23.0		Becomes: very stiff.	27											
24.0	CL	Well-Graded Sand with Gravel (SW) - Mostly sand, little gravel, trace clay, red brown, dry to moist, dense, massive structure, fine - coarse sand, fine - coarse gravel, well graded, subangular.	28	32										
25.0		Lean Clay (CL) - Mostly clay, few gravel, red brown, wet, hard, massive structure, medium plasticity, medium toughness, cohesive, coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	29											
26.0		Gravely Lean Clay with Sand (CL) - Mostly clay, little gravel, few sand, dark brown, dry to moist, hard, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	30											
27.0	SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, some gravel, brown, dry, very dense, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular.	31	50										
28.0	SW		32											

DRILLHOLE ID: 19-21S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 27-Jan-19

COORDINATES: 616975.8 m E 6052746.4 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 834.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 59.4

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing										
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits							
			Blows per 15 cm	SPT N Value	1.0	2.0		3.0	4.0	0%	20%	40%	60%	80%	100%		
	USCS	Soil Description															
25.0		Well-Graded Sand with Gravel (SW) - Mostly sand, little gravel, trace clay, red brown, dry to moist, dense, massive structure, fine - coarse sand, fine - coarse gravel, well graded, subangular.															
26.0	CL	Gravelly Lean Clay with Sand (CL) - Mostly clay, little gravel, few sand, dark brown, dry to moist, hard, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.															
27.0	SC	Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, dark red-brown, dry, hard, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.									35040	13%		39%		48%	
28.0		Clayey Sand (SC) - Mostly sand, some clay, few gravel, red brown, dry, very dense, massive structure, low plasticity, cohesive, fine sand, coarse gravel, cobbles/boulders up to 8cm, gap graded, subangular.		50													
29.0	CL	Lean Clay with Sand (CL) - Mostly clay, few sand, few gravel, brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - med. sand, med. - coarse gravel, gap graded, subangular.															
30.0		Becomes: mostly clay, little sand, few gravel, well graded.									35041	13.8%	PL=16% 	LL=35% 		70%	
31.0		Becomes: mostly clay, little gravel, trace sand, wet.		50													
32.0	GM	Silty Gravel with Sand (GM) - Mostly gravel, some sand, little silt, grey, wet, very dense, massive structure, non-plastic, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.									35042		48%		33%	19%	
33.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - med. sand, med. - coarse gravel, well graded, subangular.															
34.0	CL																
35.0		Becomes: cobbles/boulders up to 8cm.															
36.0	SM	Silty Sand (SM) - Mostly sand, little silt, brown, dry, very dense, massive structure, non-plastic, no toughness, non-cohesive, med. sand, poorly graded.															
37.0		Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, red brown, dry, hard, massive structure, low plasticity, low toughness, cohesive, fine sand, coarse gravel, gap graded, subangular.															
38.0		Silty Sand (SM) - Mostly sand, little silt, brown, dry, very dense, massive structure, non-plastic, no toughness, non-cohesive, med. sand, poorly graded.															
39.0		Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, red brown, dry, hard, massive structure, low plasticity, low toughness, cohesive, fine sand, coarse gravel, gap graded, subangular.															
40.0		Becomes: mostly clay, little sand, little gravel.															
41.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.									35043	15%	PL=16% 	LL=33% 		61%	
42.0		Becomes: mostly clay, little sand, few gravel, cobbles/boulders up to 8cm, angular.															
43.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, red brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.															
44.0																	
45.0																	
46.0		Becomes: mostly clay, little sand, little gravel.									35044						
47.0		Becomes: mostly clay, little gravel, trace sand.															
48.0		Becomes: dry to moist.															
49.0																	
50.0																	

</

DRILLHOLE ID: 19-21S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 27-Jan-19

COORDINATES: 616975.8 m E 6052746.4 m N

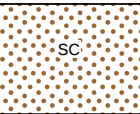
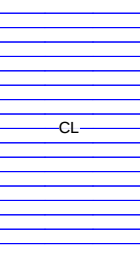
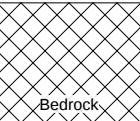
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 834.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 59.4

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing													
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits										
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit							
	USCS	Soil Description					1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%				
50.0	 SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, red brown, dry to moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.						35045					27%	46%						
51.0																				
52.0	 CL	Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, red brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.																		
53.0																				
54.0																				
55.0		Becomes: dark grey.																		
56.0																				
57.0	 Bedrock	Weathered Siltstone																		
58.0																				
59.0																				

DRILLHOLE ID: 19-22S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 28-Jan-19 TO: 29-Jan-19

COORDINATES: 617705.3 m E 6052847.2 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 826.2

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 29.7

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Blows per 15 cm	SPT N Value			1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	USCS	Soil Description			16	27											PL=16%	LL=33%	57%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
0.0		Gravely Lean Clay (CL) - Mostly clay, little gravel, few sand, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular, with roots.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

DRILLHOLE ID: 19-22S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 28-Jan-19 **TO:** 29-Jan-19

COORDINATES: 617705.3 m E 6052847.2 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 826.2

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 29.7

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing						
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits		
			Blows per 15 cm	SPT N Value			 Sand	 Moisture Content			
	USCS	Soil Description					 Gravel	 Liquid Limit			
							 Fines	 Plastic Limit			
						Percentage					
						0%	20%	40%	60%	80%	100%
25.0	CL	coarse gravel, cobbles/boulders up to 3cm, gap graded, subangular.									
26.0		Lean Clay (CL) - Mostly clay, trace sand, trace gravel, dark brown, dry to moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.									
27.0		Becomes: dark grey.									
28.0				HB/T	50						
29.0	Bedrock	Weathered Siltstone									

DRILLHOLE ID: 19-23S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 31-Jan-19

COORDINATES: 619116.7 m E 6053404.9 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 11.3

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing						
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits		
			Blows per 15 cm	SPT N Value				 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit
	USCS	Soil Description									
0.0		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, brown, wet, medium stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular, with roots and other organic debris.	4	7							
0.5		Becomes: no roots or organic debris.	3								
1.0		Becomes: stiff.	4	17							
1.5		Becomes: mostly clay, some sand, little gravel, dark brown, very stiff.	12								
2.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark grey, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	12	30							
2.5			12								
3.0			12	25							
3.5			12								
4.0			12								
4.5			12								
5.0		Becomes: mostly clay, little gravel, trace sand, dark brown.	12								
5.5			12								
6.0	CL		12								
6.5			12								
7.0			12	37							
7.5			12								
8.0			12								
8.5			12								
9.0		Becomes: hard.	12	31							
9.5			12								
10.0			12								
10.5			12								
11.0		Becomes: very stiff.	7	27							
			10								
			12								
			18								

DRILLHOLE ID: 19-24S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 01-Feb-19 **TO:** 01-Feb-19

COORDINATES: 619072.1 m E 6053522.7 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 20.4

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing									
	Primary Soil Type Organic Silt/Clay Silt Gravel Clay Sand Bedrock		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits					
			Blows per 15 cm	SPT N Value			Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit		
	USCS	Soil Description			1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%
	Percentage													
0.0		Gravely Lean Clay (CL) - Mostly clay, little gravel, few sand, brown, stiff, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular.	3	9										
1.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, dark brown, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.	6	15		29680								
2.0		Becomes: very stiff.	7	25										
3.0			12	38										
4.0		Becomes: mostly clay, few gravel.	13	17		29681								
5.0			6	21										
6.0		Lean Clay (CL) - Mostly clay, few gravel, dark brown, very stiff, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular.	4	26										
7.0			10			29682	20%	PL=14%	LL=32%		52%			
8.0			6	30										
9.0		Becomes: mostly clay, little sand, little gravel.	12	29										
10.0	CL		4			29683								
11.0			6	26										
12.0			6	43										
13.0		Becomes: hard.	12			29684								
14.0			18	50										
15.0			7	49										
16.0		Sandy Lean Clay (CL) - Mostly clay, some sand, few gravel, very dark brown, dry to moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	14			29685	7.1%	PL=14%	39%	LL=31%		54%		
17.0			50/4	50										
18.0			10	50										
19.0		Becomes: cobbles/boulders up to 10cm.	24			29686								
20.0			24	50										

DRILLHOLE ID: 19-25S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 01-Feb-19

COORDINATES: 619069.7 m E 6053505.3 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 10.7

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing										
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits							
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit				
	USCS	Soil Description			1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%			
	Percentage																
0.0	SC	Clayey Sand (SC) - Mostly sand, some clay, trace gravel, brown, moist, medium stiff, massive structure, medium plasticity, low toughness, cohesive, fine sand, coarse gravel, gap graded, subangular.	10 5 4 3 2 1	8													
1.0	CL	Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, few gravel, dark brown, dry to moist, hard, massive structure, low plasticity, medium toughness, cohesive, fine sand, coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular. Becomes: mostly clay, few gravel, medium plasticity.	7 6 5 4 3 2	31													
2.0			9 14 15 15 15 15 24 24	30													
3.0																	
4.0			6 15 15 15 20 24	40													
5.0			7 17 18 21	34													
6.0	CL	Lean Clay (CL) - Mostly clay, few gravel, red brown, moist, hard, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 3cm, well graded, subangular. Becomes: mostly clay, some sand, few gravel, cobbles/boulders up to 8cm.	8 10 14 24	32													
7.0			6 10 15 17	28													
8.0																	
9.0			5 13 18 19	47													
10.0				Becomes: hard.													

DRILLHOLE ID: 19-26S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 02-Feb-19 TO: 06-Feb-19

COORDINATES: 617469.4 m E 6053665.3 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 807.4

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing									
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits						
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit			
	USCS	Soil Description					1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%
0.0		Sandy Lean Clay (CL) - Mostly clay, some sand, few gravel, red brown, dry, stiff, massive structure, low plasticity, low toughness, non-cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular.														
1.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, red brown, dry, hard, massive structure, low plasticity, low toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular.														
2.0		Becomes: mostly clay, few gravel, well graded.														
3.0				30 20 97	50											
4.0																
5.0		Sandy Lean Clay (CL) - Mostly clay, some sand, trace gravel, red brown, dry, hard, massive structure, medium plasticity, low toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular.														
6.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, red brown, dry, hard, massive structure, low plasticity, low toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.														
7.0		Becomes: mostly clay, few gravel, few sand.														
8.0				HB/2" -	50											
9.0																
10.0		Becomes: mostly clay, few gravel.														
11.0				5 24 30/4"	50											
12.0																
13.0		Becomes: mostly clay, trace gravel, medium plasticity.														
14.0				18 21 39	50											
15.0																
16.0		Sandy Lean Clay (CL) - Mostly clay, some sand, brown, dry, hard, massive structure, low plasticity, cohesive, fine sand, poorly graded.														
17.0		Lean Clay with Sand (CL) - Mostly clay, few sand, few gravel, red brown, dry, hard, massive structure, low plasticity, cohesive, fine sand, med. - coarse gravel, gap graded, subangular.														
18.0				28 60/4"	50											
19.0			Sandy Lean Clay (CL) - Mostly clay, some sand, brown, dry, hard, massive structure, low plasticity, cohesive, fine sand, poorly graded.													
20.0		Lean Clay with Sand (CL) - Mostly clay, few sand, few gravel, red brown, dry, hard, massive structure, low plasticity, cohesive, fine sand, med. - coarse gravel, gap graded, subangular.														
21.0																
22.0				17 50 -	50											
23.0		Becomes: brown, non-cohesive, fine - coarse gravel, cobbles/boulders up to 5cm.														
24.0																
25.0				44 50/1 -	50											

DRILLHOLE ID: 19-26S
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
DRILL TYPE: Sonic Drillhole
CORE DIA: 8"
CONTRACTOR: Boart Longyear
LOGGED BY: CC

DRILLING DATE: 02-Feb-19 **TO:** 06-Feb-19
COORDINATES: 61.7469.4 m E 6053665.3 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 807.4
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 67.1
WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing											
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits							
			Blows per 15 cm	SPT N Value			 Sand	 Moisture Content								
	USCS	Soil Description					 Gravel	 Liquid Limit								
					1.0	2.0	3.0	4.0		0%	20%	40%	60%	80%	100%	
25.0	CL	Becomes: red brown, coubles/boulders up to 10cm .														
26.0																
27.0																
28.0		Becomes: mostly clay, little gravel, few sand.	50	50												
29.0																
30.0																
31.0		Becomes: mostly clay, few sand, few gravel.														
32.0																
33.0																
34.0																
35.0																
36.0																
37.0		Becomes: mostly clay, trace sand, trace gravel, dry to moist, medium plasticity, medium toughness, cohesive.														
38.0																
39.0																
40.0		Becomes: mostly clay, few gravel, trace sand, dry.														
41.0																
42.0																
43.0																
44.0		Becomes: mostly clay, little sand, little gravel, fine - coarse sand, fine - med. gravel, well graded.														
45.0																
46.0																
47.0		Becomes: mostly clay, few gravel, trace sand, fine sand, fine - coarse gravel, gap graded.														
48.0																
49.0																
50.0																

DRILLHOLE ID: 19-26S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 02-Feb-19 **TO:** 06-Feb-19

COORDINATES: 617469.4 m E 6053665.3 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 807.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing								
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits					
			Blows per 15 cm	SPT N Value				 Sand	 Moisture Content						
	USCS	Soil Description					 Gravel	 Liquid Limit							
								 Fines	 Plastic Limit	Percentage					
										0%	20%	40%	60%	80%	100%
50.0		Sandy Lean Clay (CL) - Mostly clay, some sand, brown, dry to moist, dense, low plasticity, non-cohesive, fine sand, poorly graded.													
51.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, red brown, dry to moist, hard, medium plasticity, medium toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 10cm , gap graded, subangular.													
51.5	SC	Clayey Sand (SC) - Mostly sand, little clay, brown, dry to moist, dense, low plasticity, non-cohesive, fine sand, poorly graded.								29591		80%		20%	
52.0															
53.0															
54.0															
55.0															
56.0										29592					
57.0															
58.0															
59.0	CL	Lean Clay with Gravel (CL) - Mostly clay, few gravel, trace sand, dark grey, dry, hard, medium plasticity, medium toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 5cm, gap graded, subangular.													
60.0															
61.0															
62.0															
63.0										29593					
64.0															
65.0															
66.0															
67.0															

DRILLHOLE ID: 19-27S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 11-Feb-19 **TO:** 15-Feb-19

COORDINATES: 617883.3 m E 6053726.1 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 808.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	USCS	Soil Description					1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
0.0	CL	Lean Clay with Gravel (CL) - Mostly clay, few gravel, few sand, red brown, dry, hard, low plasticity, low toughness, cohesive, fine sand, fine - coarse gravel, coubles/boulders up to 5cm, well graded, subangular.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

DRILLHOLE ID: 19-27S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 11-Feb-19 TO: 15-Feb-19

COORDINATES: 617883.3 m E 6053726.1 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 808.3

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing								
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits					
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Percentage				
	USCS	Soil Description			0%	20%	40%				60%	80%	100%		
25.0		Sandy Fat Clay with Gravel (CH) - Mostly clay, some sand, few gravel, brown, dry to moist, hard, non-plastic, no toughness, non-cohesive, fine sand, fine - coarse gravel, gap graded, subangular.													
26.0	CH	Becomes: mostly clay, some sand, trace gravel.													
27.0															
28.0	SC	Clayey Sand with Gravel (SC) - Mostly sand, little gravel, few clay, brown, dry, hard, non-plastic, no toughness, non-cohesive, fine - coarse sand, fine gravel, well graded, subangular.	12	50											
29.0	MH	Sandy Elastic Silt with Gravel (MH) - Mostly silt, little sand, few gravel, dark brown, dry to moist, hard, slow, non-plastic, low toughness, non-cohesive, fine sand, fine gravel, gap graded, subangular.													
30.0															
31.0	SM	Silty Sand (SM) - Mostly sand, some silt, brown, dry, dense, rapid, non-plastic, low toughness, non-cohesive, fine sand, poorly graded.	20	50											
32.0															
33.0	MH	Gravelly Elastic Silt (MH) - Mostly silt, little gravel, few sand, drak brown, dry to moist, hard, rapid, non-plastic, low toughness, non-cohesive, fine sand, fine gravel, gap graded, subangular.													
34.0	GW-GM	Well-Graded Gravel with Silt and Sand (GW-GM) - Mostly gravel, some sand, few silt, light brown, dry, very dense, non-plastic, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.													
35.0	SM	Silty Sand with Gravel (SM) - Mostly sand, little silt, little gravel, brown, dry, very dense, non-plastic, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.													
36.0															
37.0	MH	Elastic Silt with Sand (MH) - Mostly silt, few sand, few gravel, dark brown, dry to moist, hard, non-plastic, non-cohesive, fine sand, fine - coarse gravel, gap graded, subangular.													
38.0	SM	Silty Sand with Gravel (SM) - Mostly sand, little silt, little gravel, brown, dry, very dense, non-plastic, no toughness, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.													
39.0															
40.0	MH	Elastic Silt with Sand (MH) - Mostly silt, few sand, few gravel, dark brown, dry to moist, hard, non-plastic, non-cohesive, fine sand, fine - coarse gravel, gap graded, subangular.													
41.0															
42.0	SM	Silty Sand (SM) - Mostly sand, some silt, trace gravel, brown, moist, very dense, rapid, non-plastic, no toughness, non-cohesive, fine - coarse sand, well graded, subangular.													
43.0	CL	Gravelly Lean Clay with Sand (CL) - Mostly clay, little gravel, few sand, red brown, dry, hard, low plasticity, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 7cm, well graded, subangular.													
44.0	SM	Silty Sand with Gravel (SM) - Mostly sand, some silt, little gravel, dark brown, moist, very dense, non-plastic, non-cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 7cm, well graded, subangular.													
45.0															
46.0															
47.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, brown, moist, hard, low plasticity, low toughness, cohesive, fine sand, fine - coarse gravel, gap graded, subangular.													
48.0	CL														
49.0															
50.0		Becomes: mostly clay, few gravel, trace sand, red brown, medium toughness.													

DRILLHOLE ID: 19-27S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 11-Feb-19 **TO:** 15-Feb-19

COORDINATES: 617883.3 m E 6053726.1 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 808.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency				Lab Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Primary Soil Type Organic Silt/Clay■ Silt▨ Gravel▩ Clay■ Sand▨ Bedrock▩				Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
					Blows per 15 cm	SPT N Value				■ Sand	■ Gravel	■ Moisture Content	■ Liquid Limit	■ Plastic Limit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	USCS	Soil Description																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

DRILLHOLE ID: 19-34S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 25-Feb-19 **TO:** 26-Feb-19

COORDINATES: 618255.8 m E 6052398.9 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 837.0

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 38.1

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing						
	Primary Soil Type Organic Silt/Clay Silt Gravel Clay Sand Bedrock		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits			
			Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Moisture Content	Liquid Limit	Plastic Limit
	USCS	Soil Description			0%	20%	40%	60%	80%	100%			
0.0	OL/OH	Organic Soil with Sand (OL/OH) - Mostly organic, few sand, black-brown, dry to moist, medium stiff, low plasticity, low toughness, non-cohesive, fine sand, poorly graded, with roots..											
1.0		Lean Clay with Gravel (CL) - Mostly clay, few gravel, few sand, brown, moist, stiff, massive structure, medium plasticity, low toughness, cohesive, coarse gravel, coubles/boulders up to 3cm, well graded, subangular.				29611							
2.0		Becomes: very stiff.											
3.0		Becomes: dark brown.	12 10 11	21				PL=15% LL=31%					
4.0						29612	2	2	2	55%			
5.0													
6.0		Becomes: mostly clay, little gravel, little sand, hard.	8 15 19	34									
7.0	CL												
8.0													
9.0		Becomes: mostly clay, little sand, few gravel, brown, dry, fine sand, poorly graded.	11 27 22	49		29613	13	7	7	71%			
10.0		Becomes: mostly clay, trace sand.											
11.0		Becomes: mostly clay, few gravel, trace sand.											
12.0		Becomes: mostly clay, some sand, few gravel.				29614							
13.0	SC	Clayey Sand with Gravel (SC) - Mostly sand, some gravel, little clay, multi-coloured (red, green,brown, and black), dry to moist, very dense, low plasticity, low toughness, cohesive, coarse gravel, coubles/boulders up to 8cm, well graded, subangular.	30 30 30	50									
14.0	SP-SC	Poorly Graded Sand with Clay (SP-SC) - Mostly sand, few clay, trace gravel, red brown, dry, very dense, med. - coarse sand, coarse gravel, coubles/boulders up to 8cm, gap graded, subangular.				29615			85%		14%		
15.0	SC	Clayey Sand (SC) - Mostly sand, some clay, trace gravel, red brown, dry, very dense, med. - coarse sand, coarse gravel, coubles/boulders up to 8cm, gap graded, subangular.	12 26 31	50		29616			62%		35%		
16.0	SP	Poorly Graded Sand (SP) - Mostly sand, trace clay, red brown, dry, very dense, med. - coarse sand, coarse gravel, coubles/boulders up to 8cm, poorly graded, subangular.											
17.0													
18.0	CL	Sandy Lean Clay (CL) - Mostly clay, some sand, few gravel, biege, dry, very dense, low plasticity, fine sand, coarse gravel, coubles/boulders up to 8cm, poorly graded, subangular.	27 41 22	50		29617	3		31%		63%		
19.0		Clayey Sand (SC) - Mostly sand, little clay, brown, low plasticity, med. sand, poorly graded.											
20.0	SC	Clayey Sand (SC) - Mostly sand, some clay, brown, dry, very dense, med. sand, poorly graded.				29618			63%		37%		
21.0		Clayey Sand (SC) - Mostly sand, little clay, low plasticity.											
22.0	CL	Sandy Lean Clay (CL) - Mostly clay, some sand, low plasticity.	26 41 50	50									
23.0	SC	Clayey Sand (SC) - Mostly sand, few clay, low plasticity.											
24.0	CL	Lean Clay with Sand (CL) - Mostly clay, little sand, trace gravel, low plasticity.				29619			29%		71%		
25.0			18 41 31	50									

DRILLHOLE ID: 19-34S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 25-Feb-19 **TO:** 26-Feb-19

COORDINATES: 618255.8 m E 6052398.9 m N

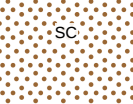
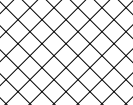
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 837.0

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 38.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency				Lab Testing						
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 		Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits			
			Blows per 15 cm	SPT N Value				 Sand	 Gravel	 Moisture Content	 Liquid Limit	 Plastic Limit	
	Percentage												
	USCS	Soil Description					1.0	2.0	3.0	4.0	0%	20%	40%
25.0	 SC	Clayey Sand (SC) - Mostly sand, some clay, trace gravel, low plasticity.											
26.0								29620	 58%		 41%		
27.0		Sandy Lean Clay (CL) - Mostly clay, some sand, few gravel, medium plasticity.											
28.0			 37  50/4	50									
29.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, medium plasticity.											
30.0	 CL		 29  50/4	50				29621					
31.0			 29  50/4										
32.0		Becomes: mostly clay, little sand, few gravel, weathered sandstone.											
33.0									29622	 16%	 27%	 38%	64%
34.0	 Bedrock	Weathered Siltstone											
35.0													
36.0													
37.0													
38.0													

DRILLHOLE ID: 19-35S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 27-Feb-19 **TO:** 27-Feb-19

COORDINATES: 618228 m E 6052834.2 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 828.7

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 30.5

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency				Lab Testing							
	Primary Soil Type Organic Silt/Clay Silt Gravel Clay Sand Bedrock				Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)		Sample ID	PSD		Atterberg Limits				
					Blows per 15 cm	SPT N Value				Sand	Gravel	Fines	Percentage			
	USCS	Soil Description	0%	20%			40%	60%	80%				100%			
0.0	OL/OH	Organic Soil with Sand (OL/OH) - Mostly organic, little sand.														
1.0																
2.0		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, low plasticity.														
3.0										29623						
4.0		Becomes: mostly clay, few gravel, trace sand, medium plasticity.				9 15 17	32									
5.0		Becomes: mostly clay, few gravel.														
6.0																
7.0	CL	Becomes: mostly clay, little gravel.				7 12 16	28			29624	12% 25% PL=14% LL=31%			63%		
8.0																
9.0		Becomes: mostly clay, few gravel.				11 18 20	38			29625						
10.0																
11.0										35138						
12.0		Becomes: mostly clay, few gravel, trace sand.				16 16 19	28									
13.0		Becomes: mostly clay, little sand.														
14.0																
15.0	CH	Fat Clay (CH) - Mostly clay, few sand, trace gravel, gap graded.								35139	2% 26% PL=15% LL=33%			92%		
16.0																
17.0	SM	Silty Sand (SM) - Mostly sand, little silt, poorly graded.								35140			77%		23%	
18.0		Becomes: mostly sand, few silt, trace gravel.														
19.0	SP	Poorly Graded Sand (SP) - Mostly sand, trace , med. sand, poorly graded.				34 50/14	50			35141			73%		27%	
20.0		Becomes: fine - med. sand.														
21.0	CH	Sandy Fat Clay (CH) - Mostly clay, little sand, few gravel, gap graded.				23 50/15 17	50									
22.0	SC	Clayey Sand (SC) - Mostly sand, some clay, few gravel, gap graded.				34 118/22 11	50									
23.0																
24.0	CH	Sandy Fat Clay (CH) - Mostly clay, little sand, few gravel, well graded.				20 60/15	50									
25.0																

DRILLHOLE ID: 19-35S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 27-Feb-19 **TO:** 27-Feb-19

COORDINATES: 618228 m E 6052834.2 m N

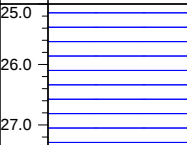
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 828.7

AZIMUTH: 0° **DIP:** -90°

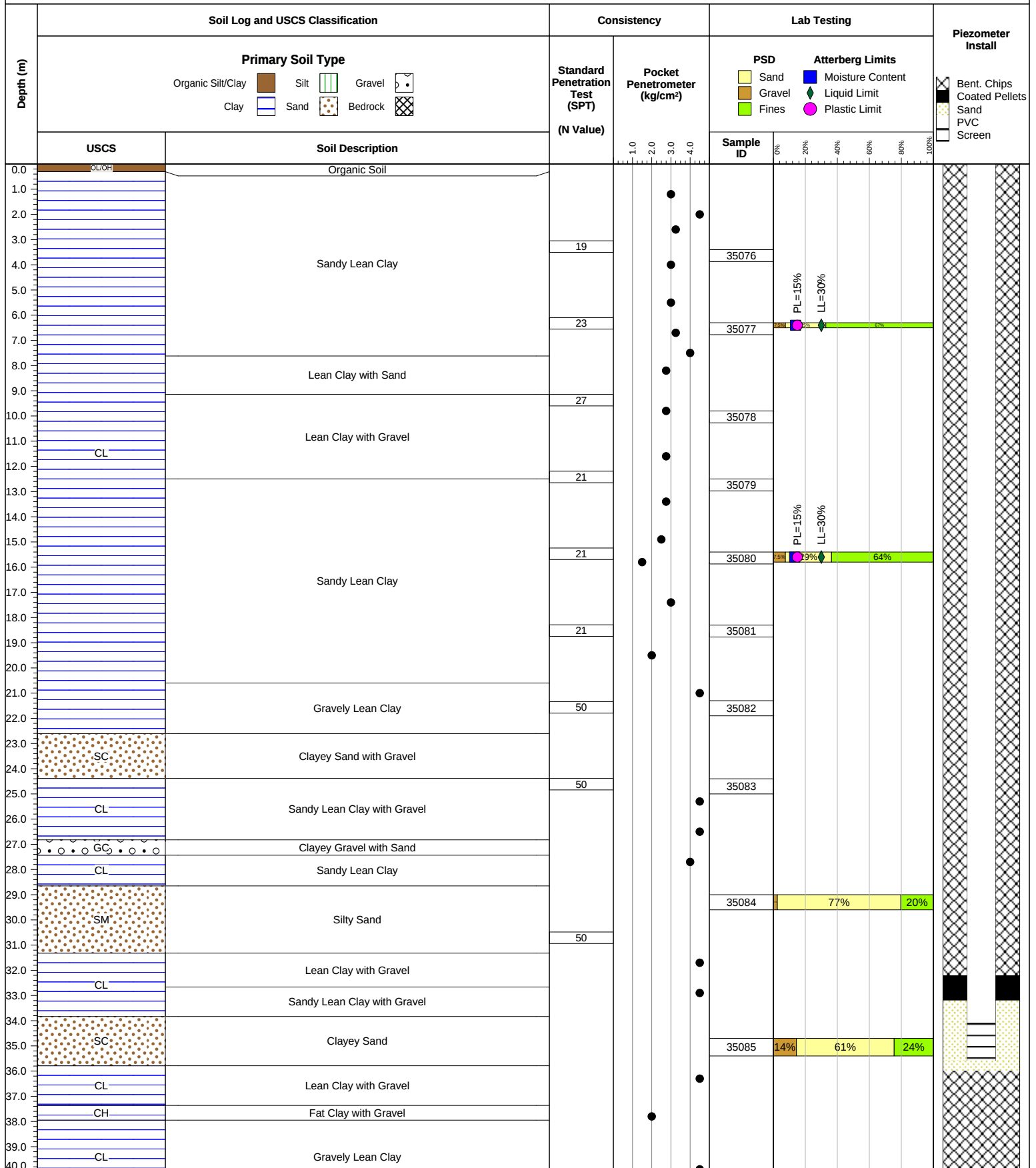
TOTAL LENGTH (m): 30.5

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification					Consistency					Lab Testing						
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					Standard Penetration Test (SPT)		Pocket Penetrometer (kg/cm²)			Sample ID	PSD		Atterberg Limits			
						Blows per 15 cm	SPT N Value					0%	20%	40%	60%	80%	100%
	USCS	Soil Description	1.0	2.0	3.0			4.0	Moisture Content	Liquid Limit	Plastic Limit						
						Percentage											
25.0																	
26.0																	
27.0																	
28.0																	
29.0		Bedrock	Weathered Siltstone														
30.0																	

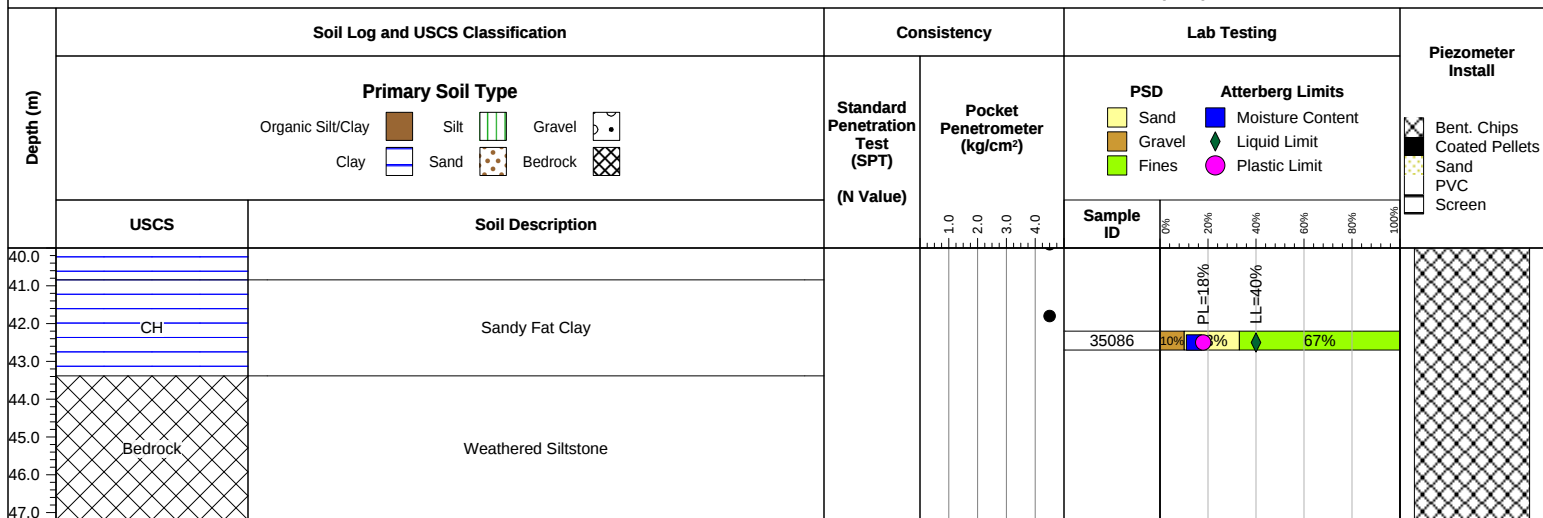
DRILLHOLE ID: 19-18S
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
DRILL TYPE: Sonic Drillhole
CORE DIA: 8"
CONTRACTOR: Boart Longyear
LOGGED BY: EC, SRK

DRILLING DATE: 15-Jan-19 **TO:** 16-Jan-19
COORDINATES: 619236.7 m E 6052454.1 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 817.0
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 47.2
WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-18S
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
DRILL TYPE: Sonic Drillhole
CORE DIA: 8"
CONTRACTOR: Boart Longyear
LOGGED BY: EC, SRK

DRILLING DATE: 15-Jan-19 **TO:** 16-Jan-19
COORDINATES: 619236.7 m E 6052454.1 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 817.0
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 47.2
WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-19S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 17-Jan-19 **TO:** 19-Jan-19

COORDINATES: 618774.6 m E 6052170.6 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 840.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 47.2

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing		Piezometer Install		
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD			Atterberg Limits	
	Organic Silt/Clay Silt Gravel Clay Sand Bedrock				Sand Gravel Fines	Moisture Content Liquid Limit Plastic Limit			
	USCS	Soil Description			Sample ID	0% 20% 40% 60% 80% 100%		0% 20% 40% 60% 80% 100%	
0.0									
1.0	CL	Gravelly Lean Clay with Sand							
2.0	SC	Clayey Sand with Gravel							
3.0	SC	Clayey Sand with Gravel	42		35087	15% 30% 1%		50%	
4.0		Lean Clay with Gravel							
5.0		Gravelly Lean Clay with Sand							
6.0	CL	Lean Clay with Gravel	50						
7.0		Sandy Lean Clay							
8.0	SC	Clayey Sand			35088				
9.0	CL	Lean Clay							
10.0	SC	Clayey Sand	50						
11.0		Lean Clay							
12.0	CL	Lean Clay	50		35089	95%			
13.0									
14.0			50						
15.0		Sandy Lean Clay	50		35090	44%		56%	
16.0									
17.0									
18.0									
19.0	SC	Clayey Sand	50		35091	73%		27%	
20.0									
21.0									
22.0	CL	Lean Clay	50		35093	12%		87%	
23.0									
24.0			50						
25.0									
26.0					35094	56%		44%	
27.0									
28.0	SC	Clayey Sand	50						
29.0									
30.0			50		35095	51%		49%	
31.0									
32.0									
33.0									
34.0	CL	Sandy Lean Clay			35096	15% 28% 25%		62%	
35.0	SC	Clayey Sand							
36.0		Gravelly Lean Clay							
37.0									
38.0		Lean Clay with Gravel							
39.0									
40.0	CL								

DRILLHOLE ID: 19-19S
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
DRILL TYPE: Sonic Drillhole
CORE DIA: 8"
CONTRACTOR: Boart Longyear
LOGGED BY: EC, SRK

DRILLING DATE: 17-Jan-19 **TO:** 19-Jan-19
COORDINATES: 618774.6 m E 6052170.6 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 840.4
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 47.2
WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency		Lab Testing		Piezometer Install		
	Primary Soil Type				Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD	Atterberg Limits			
	Organic Silt/Clay		Silt				Gravel			 Sand	 Moisture Content
	Clay		Sand				Bedrock			 Gravel	 Liquid Limit
							 Fines	 Plastic Limit			
	USCS	Soil Description					Sample ID	0%20%40%60%80%100%			
40.0		Lean Clay									
41.0		Lean Clay									
42.0		Lean Clay with Gravel									
43.0		Sandy Lean Clay with Gravel					35097	 15%  27%  30%			
44.0	SC	Clayey Sand					35098	 15%  48%  37%			
45.0							35099				
46.0	Bedrock	Interbedded silt and Mudstone, weathered					35100				
47.0											

DRILLHOLE ID: 19-20S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 TO: 21-Jan-19

COORDINATES: 616824.4 m E 6052440.0 m N

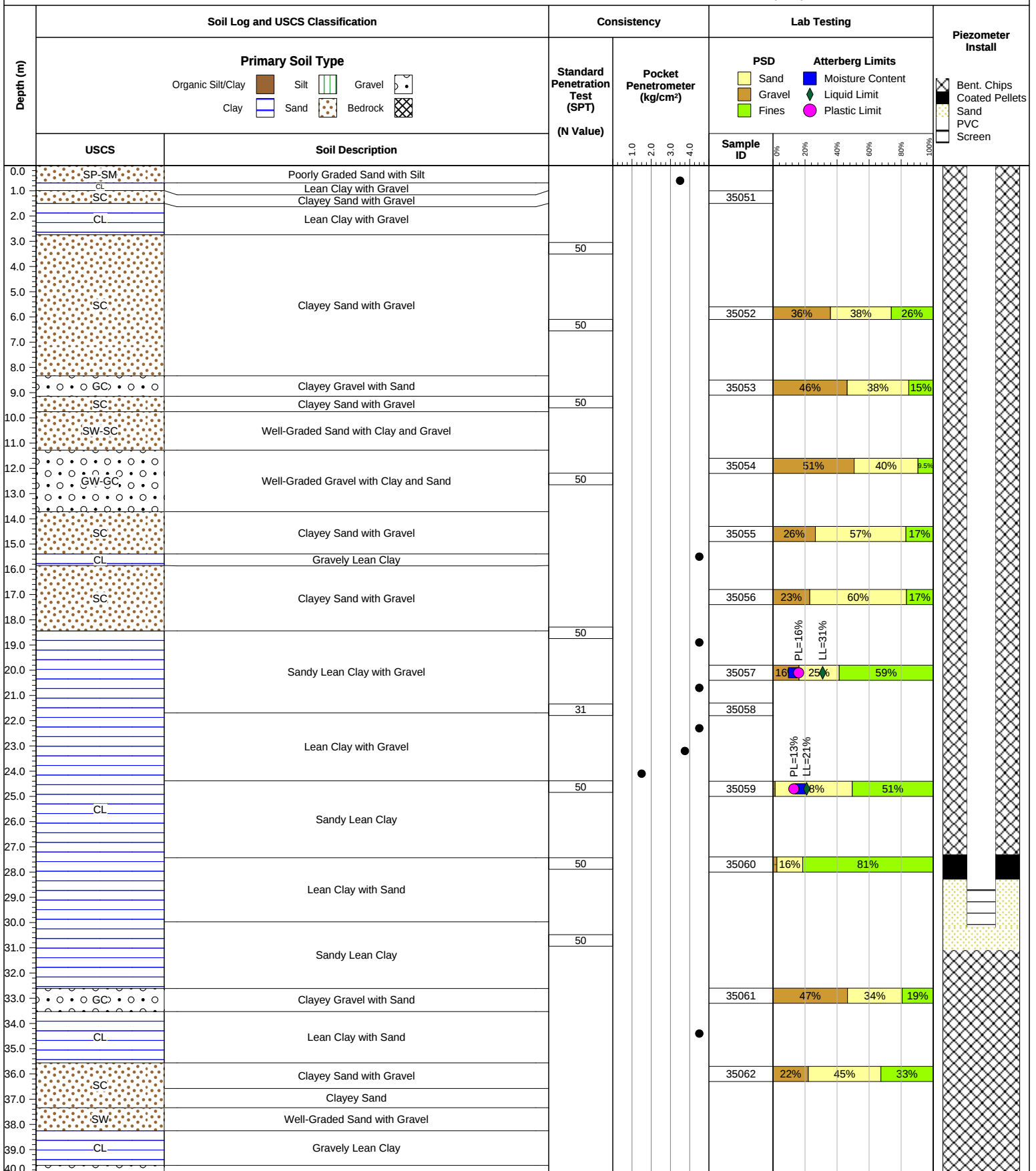
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 859.5

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 44.2

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-20S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 **TO:** 21-Jan-19

COORDINATES: 616824.4 m E 6052440.0 m N

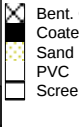
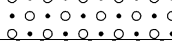
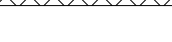
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 859.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 44.2

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing		Piezometer Install
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD	Atterberg Limits	
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 				 Sand  Gravel  Fines	 Moisture Content  Liquid Limit  Plastic Limit	
	USCS	Soil Description			Sample ID	0% 20% 40% 60% 80% 100%	
40.0		Clayey Gravel with Sand				PL=16% LL=28%	
41.0	GC						
42.0							
43.0							
44.0	 Bedrock	Weathered Siltstone					

DRILLHOLE ID: 19-21S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 TO: 27-Jan-19

COORDINATES: 616975.8 m E 6052746.4 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 834.3

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 59.4

WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing				Piezometer Install																																																																																																																																																																								
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD		Atterberg Limits																																																																																																																																																																										
	Organic Silt/Clay Silt Gravel Clay Sand Bedrock				Sand Gravel Fines	Moisture Content Liquid Limit Plastic Limit																																																																																																																																																																											
	USCS	Soil Description			Sample ID	0%	20%	40%		60%	80%	100%																																																																																																																																																																					
0.0	SM	Silty Sand																																																																																																																																																																															

DRILLHOLE ID: 19-21S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 27-Jan-19

COORDINATES: 616975.8 m E 6052746.4 m N

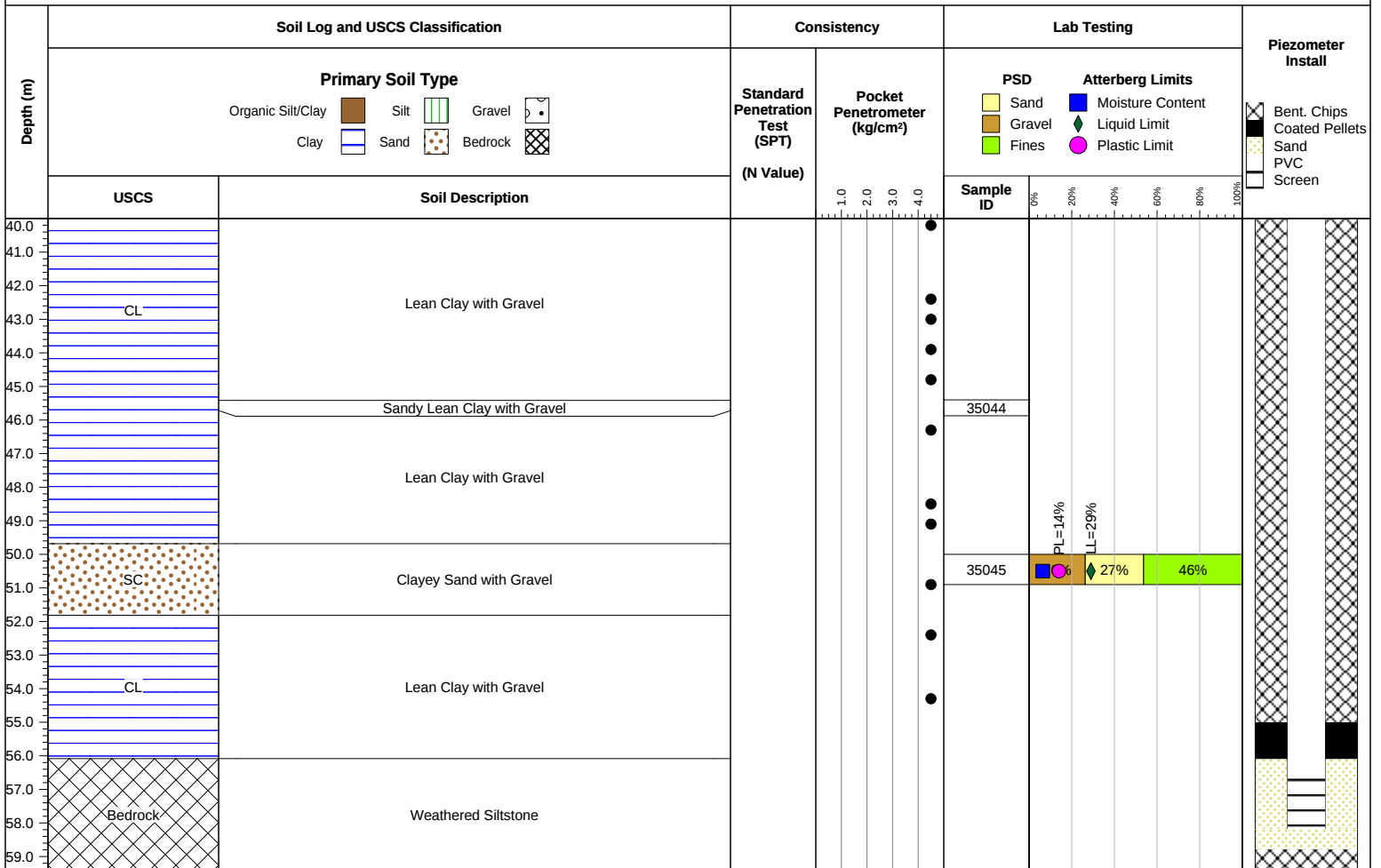
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 834.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 59.4

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-22S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 28-Jan-19 **TO:** 29-Jan-19

COORDINATES: 617705.3 m E 6052847.2 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 826.2

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 29.7

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing		Piezometer Install			
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD			Atterberg Limits		
					Sample ID					
	Organic Silt/Clay	Silt	Gravel		Sand	Moisture Content	Liquid Limit	Plastic Limit		
	Clay	Sand	Bedrock		Gravel					
					Fines					
	USCS	Soil Description								
0.0		Gravelly Lean Clay								
1.0										
2.0										
3.0			31		29661	16%	27%	57%		
4.0	CL	Sandy Lean Clay with Gravel								
5.0										
6.0			27		29662					
7.0										
8.0										
9.0	ML	Sandy Silt with Gravel	50							
10.0		Sandy Lean Clay								
11.0		Lean Clay with Sand			29663	22%		78%		
12.0		Sandy Lean Clay	50							
13.0										
14.0	CL	Sandy Lean Clay with Gravel	50		29664					
15.0										
16.0			50		29665		27%	53%		
17.0										
18.0			50							
19.0					29666	3.7%		64%	28%	
20.0	SC	Clayey Sand								
21.0		Gravelly Lean Clay with Sand								
22.0	CL	Lean Clay with Gravel	50		29667					
23.0	SM	Silty Sand with Gravel								
24.0		Lean Clay with Gravel								
25.0		Sandy Lean Clay with Gravel	50							
26.0	CL	Lean Clay			29668			95%		
27.0			50							
28.0										
29.0	Bedrock	Weathered Siltstone								

DRILLHOLE ID: 19-23S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 31-Jan-19

COORDINATES: 619116.7 m E 6053404.9 m N

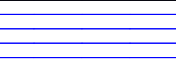
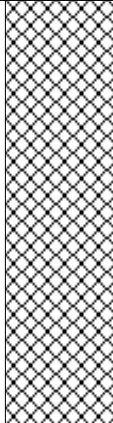
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 11.3

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency		Lab Testing				Piezometer Install	
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 				Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²) 1.0 2.0 3.0 4.0	PSD		Atterberg Limits			 Bent. Chips
							 Sand  Gravel  Fines	 Moisture Content  Liquid Limit  Plastic Limit				
	USCS	Soil Description	Sample ID	0% 20% 40% 60% 80% 100%								
0.0		Sandy Lean Clay with Gravel	7									
1.0			17				29676	 18%  15%  32%  51%				
2.0			30									
3.0			25									
4.0			29									
5.0	CL	Lean Clay with Gravel				29677						
6.0			37									
7.0						29678						
8.0			31									
9.0												
10.0						29679						
11.0			27									

DRILLHOLE ID: 19-24S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 01-Feb-19 **TO:** 01-Feb-19

COORDINATES: 619072.1 m E 6053522.7 m N

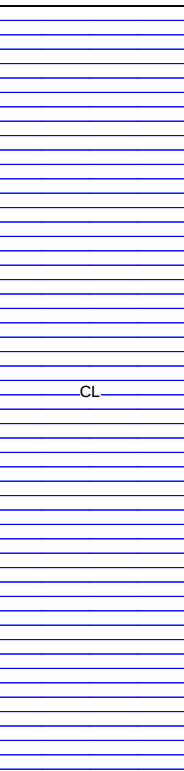
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.5

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 20.4

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing		Piezometer Install			
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD	Atterberg Limits				
	Organic Silt/Clay				Silt			Gravel		 Moisture Content
	Clay				Sand			Bedrock		 Liquid Limit
						 Plastic Limit				
	USCS	Soil Description			Sample ID	 0%  20%  40%  60%  80%  100%				
0.0		Gravelly Lean Clay	9							
1.0			15		29680					
2.0		Lean Clay with Gravel	25							
3.0			38							
4.0			17		29681					
5.0			21							
6.0		Lean Clay								
7.0			26							
8.0		Sandy Lean Clay with Gravel			29682	 20%  32%	 52%			
9.0			30							
10.0			29							
11.0			26		29683					
12.0										
13.0			43			29684				
14.0			50							
15.0			Sandy Lean Clay	49						
16.0					29685	 39%  31%	 54%			
17.0		50								
18.0										
19.0		50				29686				
20.0	50									

DRILLHOLE ID: 19-25S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 01-Feb-19

COORDINATES: 619069.7 m E 6053505.3 m N

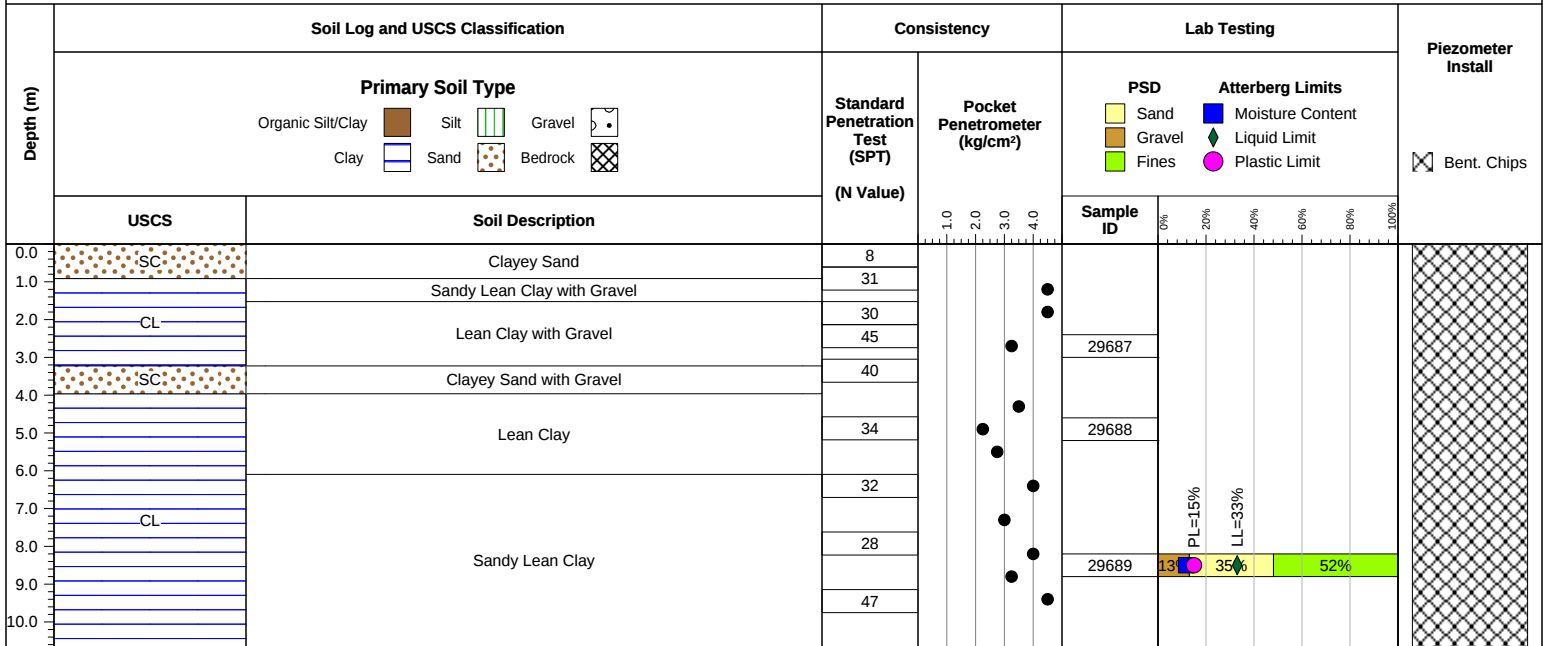
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 797.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 10.7

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-26S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 02-Feb-19 **TO:** 06-Feb-19

COORDINATES: 617469.4 m E 6053665.3 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 807.4

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

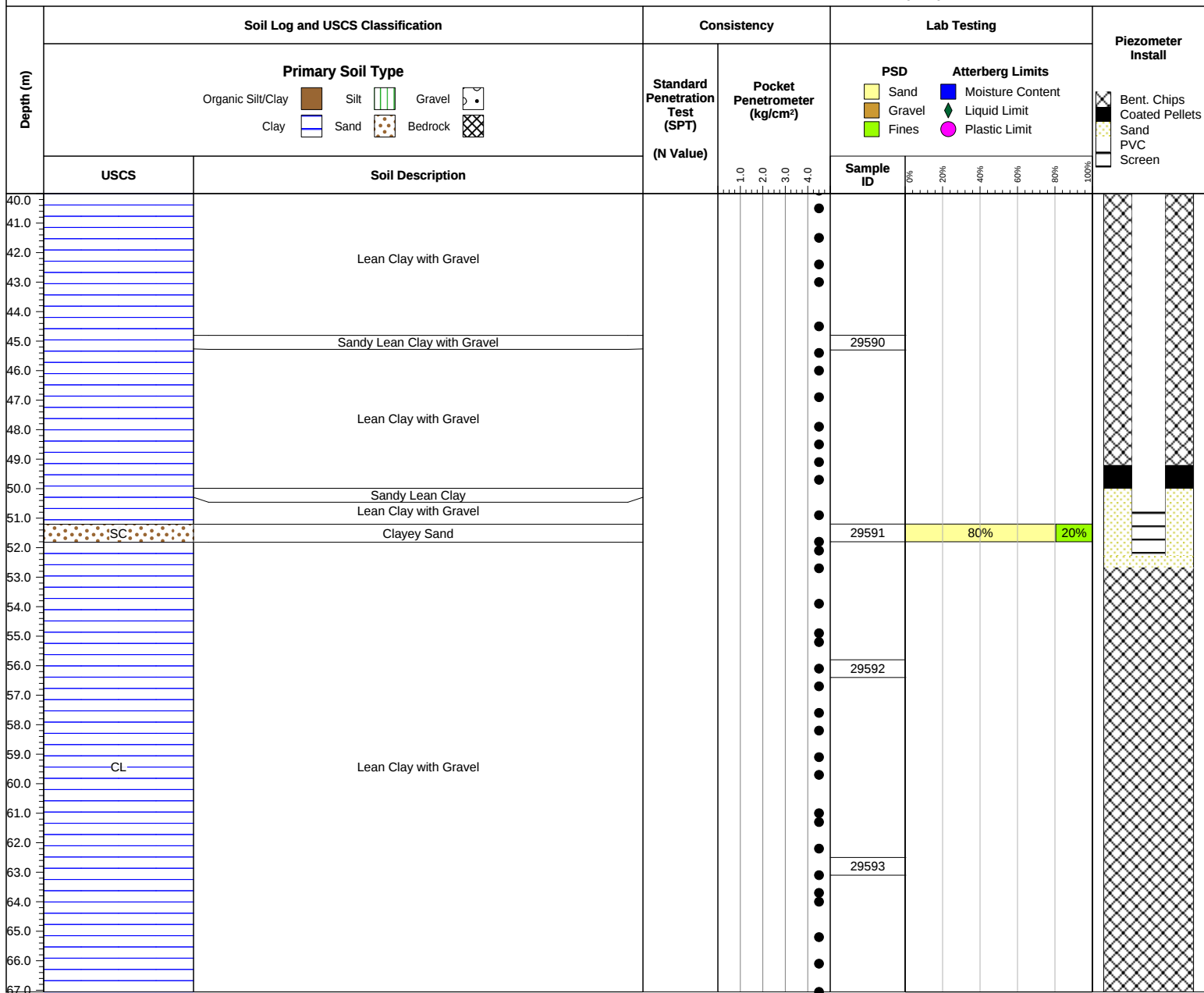
PROJECT: Tenas Coal Project

CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification		Consistency		Lab Testing						Piezometer Install		
	Primary Soil Type		Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD		Atterberg Limits						
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 				 Sand  Gravel  Fines	 Moisture Content  Liquid Limit  Plastic Limit							
	USCS	Soil Description			Sample ID	0%	20%	40%	60%	80%	100%		
0.0		Sandy Lean Clay											
1.0													
2.0													
3.0		Lean Clay with Gravel	50				29576						
4.0													
5.0		Sandy Lean Clay					29577						
6.0			50										
7.0													
8.0		Lean Clay with Gravel					29578						
9.0			50										
10.0													
11.0							29579						
12.0			50										
13.0		Lean Clay											
14.0							29580						
15.0													
16.0		Sandy Lean Clay	50				29581						
17.0													
18.0		Lean Clay with Sand					29582						
19.0			50										
20.0		Sandy Lean Clay					29583						
21.0													
22.0		Lean Clay with Sand					29584						
23.0			50										
24.0							29585						
25.0		Sandy Lean Clay with Gravel	50										
26.0	CL												
27.0							29586						
28.0			50										
29.0		Gravelly Lean Clay with Sand											
30.0							29587						
31.0													
32.0													
33.0		Sandy Lean Clay with Gravel											
34.0													
35.0													
36.0							29588						
37.0													
38.0		Lean Clay											
39.0							29589						
40.0													

DRILLHOLE ID: 19-26S
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
DRILL TYPE: Sonic Drillhole
CORE DIA: 8"
CONTRACTOR: Boart Longyear
LOGGED BY: CC

DRILLING DATE: 02-Feb-19 **TO:** 06-Feb-19
COORDINATES: 617469.4 m E 6053665.3 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 807.4
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 67.1
WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-27S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 11-Feb-19 **TO:** 15-Feb-19

COORDINATES: 617883.3 m E 6053726.1 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 808.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency		Lab Testing				Piezometer Install				
	Primary Soil Type				Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD		Atterberg Limits		Bent. Chips Coated Pellets Sand PVC Screen				
							Sand	Gravel	Fines	Moisture Content				Liquid Limit	Plastic Limit
	USCS	Soil Description						Sample ID							
0.0	CL	Lean Clay with Gravel													
1.0									29594						
2.0															
3.0															
4.0															
5.0										29595					
6.0															
7.0															
8.0						Sandy Lean Clay				29596					
9.0															
10.0															
11.0						Lean Clay with Sand									
12.0							29597								
13.0															
14.0															
15.0			Lean Clay				29598								
16.0															
17.0							29599								
18.0															
19.0															
20.0			Lean Clay with Gravel				29600								
21.0															
22.0															
23.0															
24.0			Lean Clay				29601								
25.0															
26.0			Sandy Fat Clay with Gravel												
27.0	CH		Sandy Fat Clay				29602								
28.0			Clayey Sand with Gravel												
29.0	MH		Sandy Elastic Silt with Gravel												
30.0							29603		66%		34%				
31.0	SM		Silty Sand												
32.0															
33.0	MH		Gravelly Elastic Silt												
33.0	GW-GM		Well-Graded Gravel with Silt and Sand				29604		46%	42%	12%				
34.0															
35.0	SM		Silty Sand with Gravel												
36.0							29605		17%	59%	24%				
37.0			Elastic Silt with Sand												
38.0	SM		Silty Sand with Gravel												
39.0															
40.0															

DRILLHOLE ID: 19-27S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: CC

DRILLING DATE: 11-Feb-19 **TO:** 15-Feb-19

COORDINATES: 617883.3 m E 6053726.1 m N

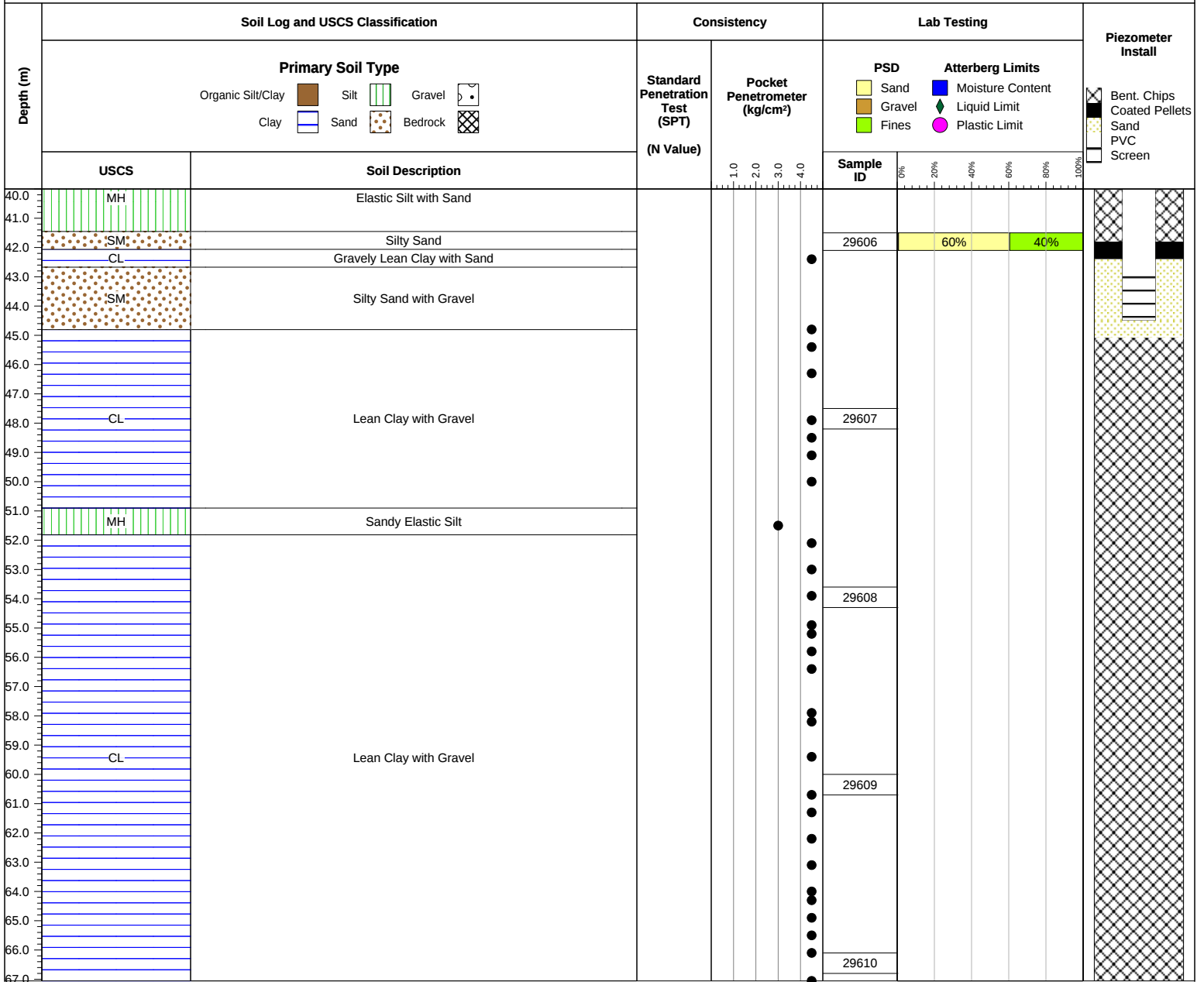
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 808.3

AZIMUTH: 0° **DIP:** -90°

TOTAL LENGTH (m): 67.1

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-34S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 25-Feb-19 TO: 26-Feb-19

COORDINATES: 618255.8 m E 6052398.9 m N

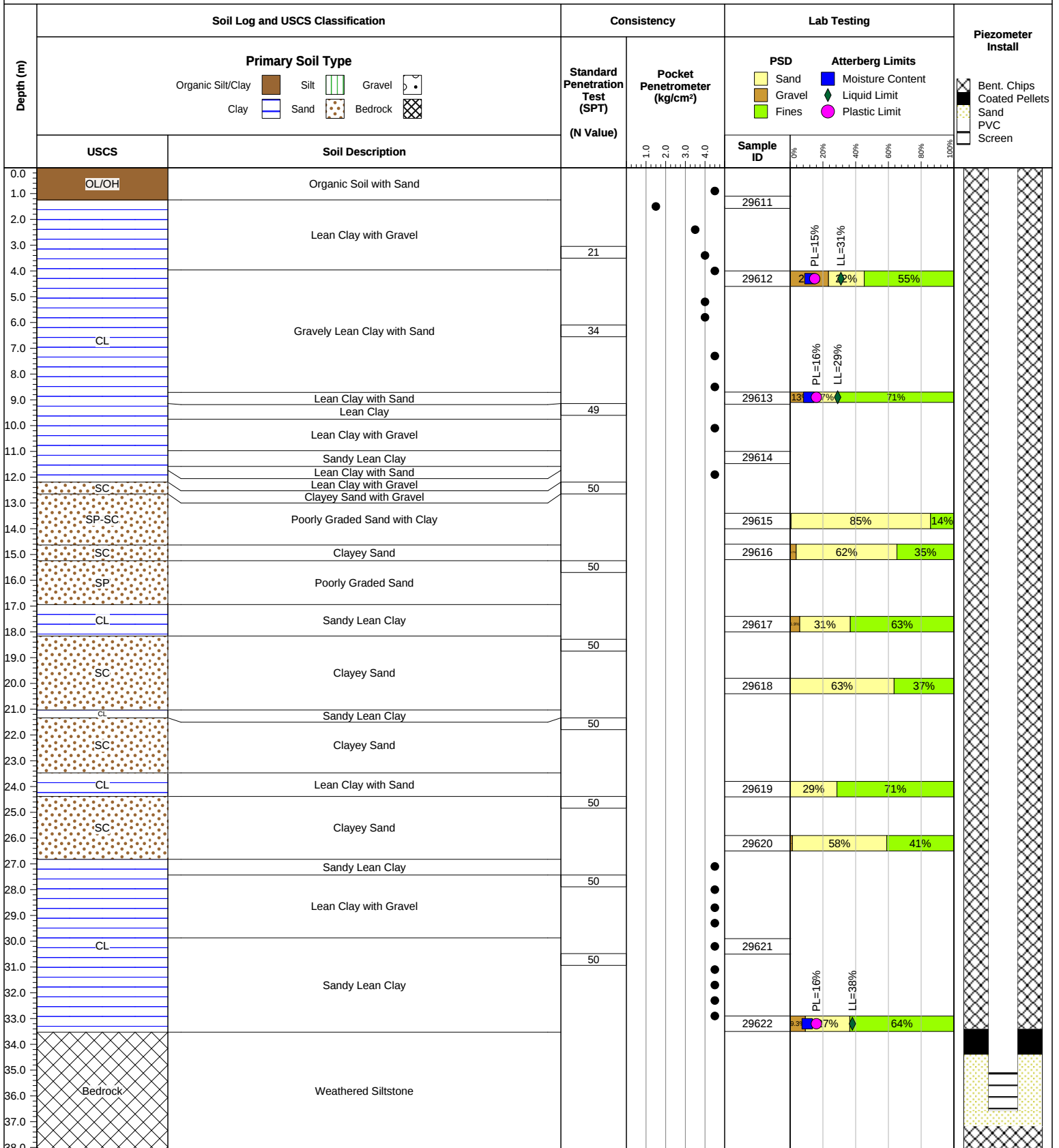
DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 837.0

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 38.1

WATER LEVEL EL (masl): N/A



DRILLHOLE ID: 19-35S

LOCATION: Tenas Exploration Site

PROJECT NO: 2CT025.006

DRILL TYPE: Sonic Drillhole

CORE DIA: 8"

CONTRACTOR: Boart Longyear

LOGGED BY: EC, SRK

DRILLING DATE: 27-Feb-19 TO: 27-Feb-19

COORDINATES: 618228.0 m E 6052834.2 m N

DATUM: UTM NAD83, Zone 9 North

GROUND EL (masl): 828.7

AZIMUTH: 0° DIP: -90°

TOTAL LENGTH (m): 30.5

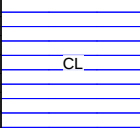
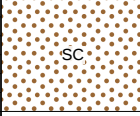
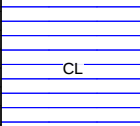
WATER LEVEL EL (masl): N/A

Depth (m)	Soil Log and USCS Classification				Consistency			Lab Testing							Piezometer Install
	Primary Soil Type				Standard Penetration Test (SPT) (N Value)	Pocket Penetrometer (kg/cm²)	PSD		Atterberg Limits						
							Sand	Gravel	Moisture Content	Liquid Limit	Plastic Limit				
							Fines								
	USCS	Soil Description					Sample ID	0%	20%	40%	60%	80%	100%		
0.0		Organic Soil with Sand													
1.0		Sandy Lean Clay with Gravel													
2.0															
3.0		Lean Clay with Gravel			32										
4.0															
5.0		Lean Clay													
6.0					28										
7.0	CL	Lean Clay with Gravel													
8.0															
9.0		Lean Clay			38										
10.0															
11.0															
12.0		Lean Clay with Gravel			28										
13.0		Lean Clay with Sand													
14.0															
15.0	CH	Fat Clay													
16.0															
17.0	SM	Silty Sand													
18.0															
19.0	SP	Poorly Graded Sand			50										
20.0					50										
21.0	CH	Sandy Fat Clay													
21.0	SC	Clayey Sand			50										
22.0															
23.0															
24.0	CH	Sandy Fat Clay			50										
25.0															
26.0															
27.0															
28.0															
29.0	Bedrock	Weathered Siltstone													
30.0															

DRILLHOLE ID: 19-40TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 **TO:** 20-Jan-19
COORDINATES: 618891 m E 6052407 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 833.7
TOTAL DEPTH (m): 3.3
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing								
	Primary Soil Type			Pocket Penetrometer (kg/cm ²)	Sample ID	PSD		Atterberg Limits					
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit				
	USCS	Soil Description	Test Pit Notes			Percentage							
				1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%
0.0	 SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 15cm, well graded, subangular, with roots..	Medium Excavator Resistance. Some Sloughing.										
0.5		Becomes: no roots..											
1.0	 CL	Gravelly Lean Clay with Sand (CL) - Mostly clay, little gravel, little sand, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 15cm, well graded, subangular, no roots..	High Excavator Resistance.										
1.5		Becomes: dark brown.											
2.0	 SC	Clayey Sand (SC) - Mostly sand, little clay, few gravel, brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, coarse gravel, cobbles/boulders up to 4cm, gap graded, subangular.	Medium Excavator Resistance. Some Sloughing.										
2.5	 CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, very dark brown, moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 15cm, well graded, subangular.	High Excavator Resistance. No Sloughing. Test pit dry.										
3.0			EOH = 3.3m. Refusal										



DRILLHOLE ID: 19-41TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 20-Jan-19 **TO:** 20-Jan-19
COORDINATES: 618716 m E 6052062 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 841.9
TOTAL DEPTH (m): 4.0
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

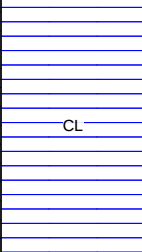
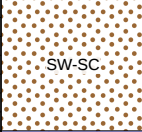
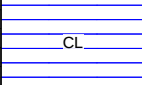
Depth (m)	Soil Log and USCS Classification			Lab Testing									
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits					
	Organic Silt/Clay Silt Gravel Clay Sand Bedrock					Sand	Gravel	Moisture Content	Liquid Limit	Plastic Limit			
						Fines							
	USCS	Soil Description	Test Pit Notes	1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%	100%
0.0	SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, few gravel, brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 20cm, well graded, subangular.	Medium Excavator Resistance. Some Sloughing.										
0.5													
1.0													
1.5													
2.0	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, trace sand, very dark brown, moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 20cm, well graded, subangular.	High Excavator Resistance. No Sloughing. Test pit dry.										
2.5													
3.0													
3.5													
4.0			EOH = 4.0m. Refusal										



DRILLHOLE ID: 19-42TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 22-Jan-19
COORDINATES: 616949 m E 6052368 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 860.2
TOTAL DEPTH (m): 3.6
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing													
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits										
						 Sand	 Gravel	 Moisture Content	 Liquid Limit	 Plastic Limit								
	USCS	Soil Description	Test Pit Notes	1.0	2.0	3.0	4.0	Percentage										
	0%	20%	40%	60%	80%	100%												
0.0	 SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	Medium Excavator Resistance. Some Sloughing.															
0.5																		
1.0																		
1.5	 CL	Gravely Lean Clay (CL) - Mostly clay, some gravel, trace sand, dark brown, moist, very stiff, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular.	High Excavator Resistance. No Sloughing. Test pit dry.															
2.0																		
2.5																		
3.0																		
3.5	 SW-SC	Well-Graded Sand with Clay and Gravel (SW-SC) - Mostly sand, little gravel, few clay, brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, med. - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular.	EOH = 3.6m. Refusal															
	 CL	Gravely Lean Clay (CL) - Mostly clay, some gravel, trace sand, dark brown, moist, very stiff, massive structure, low plasticity, medium toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular.																



DRILLHOLE ID: 19-43TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 22-Jan-19
COORDINATES: 617233 m E 6052385 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 840.9
TOTAL DEPTH (m): 4.5
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing					
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits		
	USCS	Soil Description	Test Pit Notes			Sand	Gravel	Fines	Moisture Content	Liquid Limit
0.0				1.0						
0.5				2.0						
1.0				3.0						
1.5	CL	Gravelly Lean Clay with Sand (CL) - Mostly clay, little gravel, little sand, dark brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine - med. sand, med. - coarse gravel, cobbles/boulders up to 25cm, gap graded, subangular.	Medium Excavator Resistance. Minor Sloughing.	4.0	29632					
2.0					29633					
2.5					29634					
3.0		Becomes: mostly clay, little gravel, few sand, medium plasticity, medium toughness.			29635					
3.5	CH	Gravelly Fat Clay (CH) - Mostly clay, little gravel, few sand, dark brown, moist, very stiff, massive structure, high plasticity, high toughness, cohesive, fine - med. sand, med. - coarse gravel, cobbles/boulders up to 25cm, gap graded, subangular.	High Excavator Resistance. No Sloughing. Minor water inflow into test pit at 3.5m		29636					
4.0		Becomes: mostly clay, little gravel.			29637					
4.5			EOH = 4.5m. Refusal		29638					



DRILLHOLE ID: 19-44TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 22-Jan-19 **TO:** 22-Jan-19
COORDINATES: 617142 m E 6052582 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 836.2
TOTAL DEPTH (m): 3.7
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing							
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits				
						 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit			
	USCS	Soil Description	Test Pit Notes	1.0	2.0	3.0	4.0	0%	20%	40%	60%	80%
0.0	Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, fine sand, med. - coarse gravel, cobbles/boulders up to 10cm, gap graded, subangular.	Medium Excavator Resistance. Some Sloughing. Minor water inflow from under organic cover material.										
0.5												
1.0												
1.5			CL									
2.0			Becomes: mostly clay, little gravel, dark brown, very stiff, well graded.	High Excavator Resistance. No Sloughing.								
2.5												
3.0												
3.5	SC	Clayey Sand (SC) - Mostly sand, little clay, brown, moist, dense, massive structure, low plasticity, low toughness, cohesive, fine sand, poorly graded.										
					EOH = 3.7m. Refusal							
												</



DRILLHOLE ID: 19-45TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 23-Jan-19 **TO:** 23-Jan-19
COORDINATES: 617531 m E 6052346 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 837.9
TOTAL DEPTH (m): 2.5
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification			Lab Testing									
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits					
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit				
						Percentage							
	USCS	Soil Description	Test Pit Notes			1.0	2.0	3.0	4.0	0%	20%	40%	60%
0.0		Gravely Lean Clay (CL) - Mostly clay, little gravel, few sand, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular, with roots.	High Excavator Resistance. No Sloughing. Test pit dry.										
0.5		Becomes: no roots.											
1.0													
1.5	CL												
2.0		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, med. - coarse gravel, cobbles/boulders up to 60cm, well graded, subangular.											
2.5			EOH = 2.5m. Refusal on boulder.										



DRILLHOLE ID: 19-46TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 23-Jan-19 **TO:** 23-Jan-19
COORDINATES: 617762 m E 6052299 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 839.9
TOTAL DEPTH (m): 4.0
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification			Lab Testing							
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits			
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand	 Moisture Content				
	USCS	Soil Description	Test Pit Notes			 Gravel	 Liquid Limit				
						Percentage					
						0%	20%	40%	60%	80%	100%
0.0		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular.	Medium Excavator Resistance. Some Sloughing.								
0.5											
1.0	CL	Becomes: mostly clay, little gravel, few sand, red brown, medium plasticity.	High Excavator Resistance. Minor sloughing.		●						
1.5											
2.0					●						
2.5											
3.0	SC	Clayey Sand (SC) - Mostly sand, little clay, few gravel, red brown, dry, dense, massive structure, low plasticity, low toughness, cohesive, fine sand, med. - coarse gravel, cobbles/boulders up to 10cm, gap graded, subangular.	Medium Excavator Resistance. High sloughing. Test pit dry.								
3.5											
4.0			EOH = 4.0m. Refusal								



DRILLHOLE ID: 19-47TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 23-Jan-19 **TO:** 23-Jan-19
COORDINATES: 618131 m E 6052559 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 835.0
TOTAL DEPTH (m): 3.8
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing					
	Primary Soil Type Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits		
						 Sand	 Moisture Content	 Gravel	 Liquid Limit	 Fines
	USCS	Soil Description	Test Pit Notes	0%	20%	40%	60%	80%	100%	
0.0	OL/OH	Organic Soil (OL/OH) - Mostly organic, black, moist, soft, massive structure, low plasticity, no toughness, cohesive, with roots.								
0.5		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, fine sand, fine - coarse gravel, cobbles/boulders up to 10cm, gap graded, subangular.								
1.0										
1.5										
2.0	CL									
2.5		Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, fine - coarse gravel, cobbles/boulders up to 40cm, well graded, subangular.								
3.0										
3.5										



DRILLHOLE ID: 19-48TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 30-Jan-19
COORDINATES: 619054 m E 6053559 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 800.7
TOTAL DEPTH (m): 4.3
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing						
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits			
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand  Moisture Content  Gravel  Liquid Limit  Fines  Plastic Limit		Percentage			
	USCS	Soil Description	Test Pit Notes			0%	20%	40%	60%	80%	100%
0.0	 SM	Silty Sand with Gravel (SM) - Mostly sand, some silt, little gravel, red brown, dry to moist, stiff, massive structure, non-plastic, low toughness, noncohesive, med. - coarse sand, fine - coarse gravel, cobbles/boulders up to 8cm, well graded, subangular, with roots.									
0.5											
1.0	 CL	Gravelly Lean Clay (CL) - Mostly clay, little gravel, few sand, dark grey, moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular.	Medium Excavator Resistance. Minor Sloughing.								
1.5											
2.0		Becomes: mostly clay, few gravel, red brown, low plasticity.									
2.5		Becomes: mostly clay, little gravel, very dark brown, medium plasticity.									
3.0	High Excavator Resistance. No Sloughing. Test pit dry.										
3.5											
4.0											
			EOH = 4.3m. Refusal								



DRILLHOLE ID: 19-49TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 30-Jan-19
COORDINATES: 619087 m E 6053535 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 801.0
TOTAL DEPTH (m): 4.3
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification			Lab Testing						
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits		
	Organic Silt/Clay Silt Gravel					Sand	Moisture Content	Liquid Limit	Plastic Limit	
	Clay Sand Bedrock					Fines				
	USCS	Soil Description	Test Pit Notes			Percentage				
0.0	SM	Silty Sand (SM) - Mostly sand, some silt, few gravel, red brown, dry, medium dense, massive structure, non-plastic, low toughness, noncohesive, fine - coarse sand, fine - med. gravel, well graded, subangular, with roots.	Medium Excavator Resistance. Some sloughing.	1.0	29672	12%	50%	38%		
0.5	SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, brown, moist, very stiff, massive structure, low plasticity, low toughness, cohesive, fine - coarse sand, fine - coarse gravel, cobbles/boulders up to 15cm, well graded, subangular.		2.0	29673					
1.0		Sandy Lean Clay (CL) - Mostly clay, some sand, few gravel, dark grey, moist, hard, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 30cm, well graded, subangular.	High Excavator Resistance. No Sloughing. Test pit dry.	3.0	29674	12%	30%	57%		
1.5				4.0						
2.0										
2.5										
3.0	CL									
3.5										
4.0			EOH = 4.3m. Refusal							



DRILLHOLE ID: 19-50TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 30-Jan-19
COORDINATES: 619149 m E 6053478 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 801.4
TOTAL DEPTH (m): 4.2
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

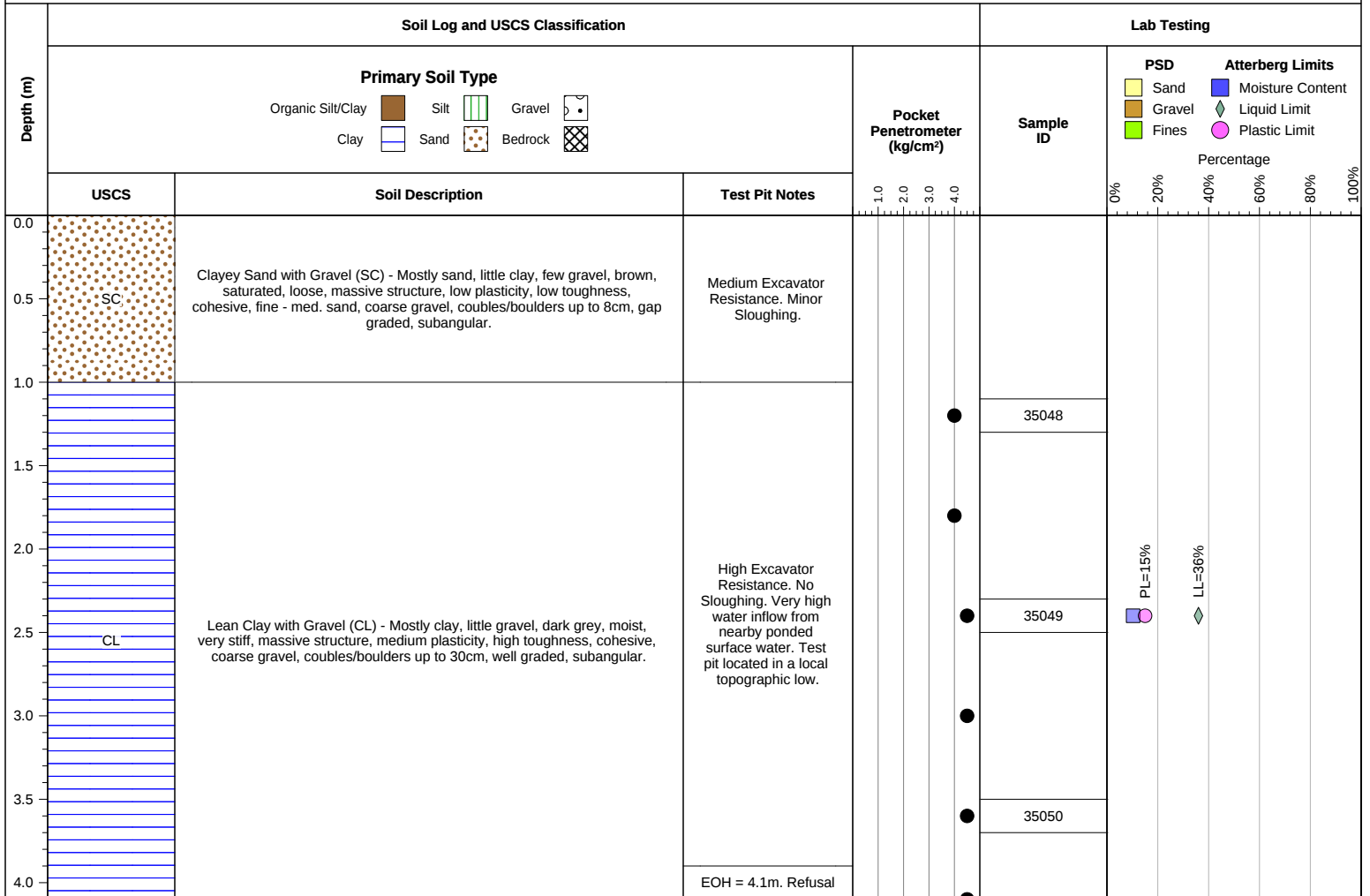
Depth (m)	Soil Log and USCS Classification				Lab Testing					
	Primary Soil Type			Pocket Penetrometer (kg/cm ²)	Sample ID	PSD		Atterberg Limits		
	USCS	Soil Description	Test Pit Notes			Sand	Gravel	Fines	Moisture Content	Liquid Limit
0.0		Silty Sand (SM) - Mostly sand, some silt, red brown, dry, medium dense, massive structure, non-plastic, no toughness, noncohesive, fine - med. sand, poorly graded.	Medium Excavator Resistance. Some sloughing.	1.0	29675					
0.5	SM	Silty Sand with Gravel (SM) - Mostly sand, little silt, few gravel, brown, dry, medium dense, massive structure, non-plastic, no toughness, noncohesive, fine sand, coarse gravel, cobbles/boulders up to 8cm, gap graded, subangular.		2.0	35046					
1.0			High Excavator Resistance. No Sloughing. Test pit dry.	3.0						
1.5				4.0						
2.0										
2.5	CL	Lean Clay with Gravel (CL) - Mostly clay, little gravel, dark grey, moist, very stiff, massive structure, medium plasticity, high toughness, cohesive, coarse gravel, cobbles/boulders up to 30cm, well graded, subangular.								
3.0										
3.5					35047					
4.0										
			EOH = 4.2m. Refusal							



DRILLHOLE ID: 19-51TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 30-Jan-19 **TO:** 30-Jan-19
COORDINATES: 619100 m E 6053391 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 803.2
TOTAL DEPTH (m): 4.1
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.



DRILLHOLE ID: 19-52TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 618485 m E 6054492 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 781.1
TOTAL DEPTH (m): 3.3
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing						
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits			
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit		
	USCS	Soil Description	Test Pit Notes			Percentage					
0.0	                               										



DRILLHOLE ID: 19-53TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 618516 m E 6054468 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 781.9
TOTAL DEPTH (m): 3.1
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing					
	Primary Soil Type			Pocket Penetrometer (kg/cm ²)	Sample ID	PSD		Atterberg Limits		
	USCS	Soil Description	Test Pit Notes			Sand	Gravel	Fines	Moisture Content	Liquid Limit
0.0	CL	Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, little gravel, red, dry to moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, med. - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular, with roots.	High Excavator Resistance throughout. No Sloughing. Test pit dry.	1.0						
0.5				2.0	29692	18%	16%	43%	39%	
1.0		Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, red, dry to moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, med. - coarse sand, fine - coarse gravel, cobbles/boulders up to 5cm, well graded, subangular, no roots.		3.0						
1.5				4.0						
2.0			Becomes: cobbles/boulders up to 30cm.		29693	25%	17%	35%	49%	
2.5										
3.0			EOH = 3.1m. Refusal							



DRILLHOLE ID: 19-54TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 619042 m E 6053477 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 801.6
TOTAL DEPTH (m): 4.2
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

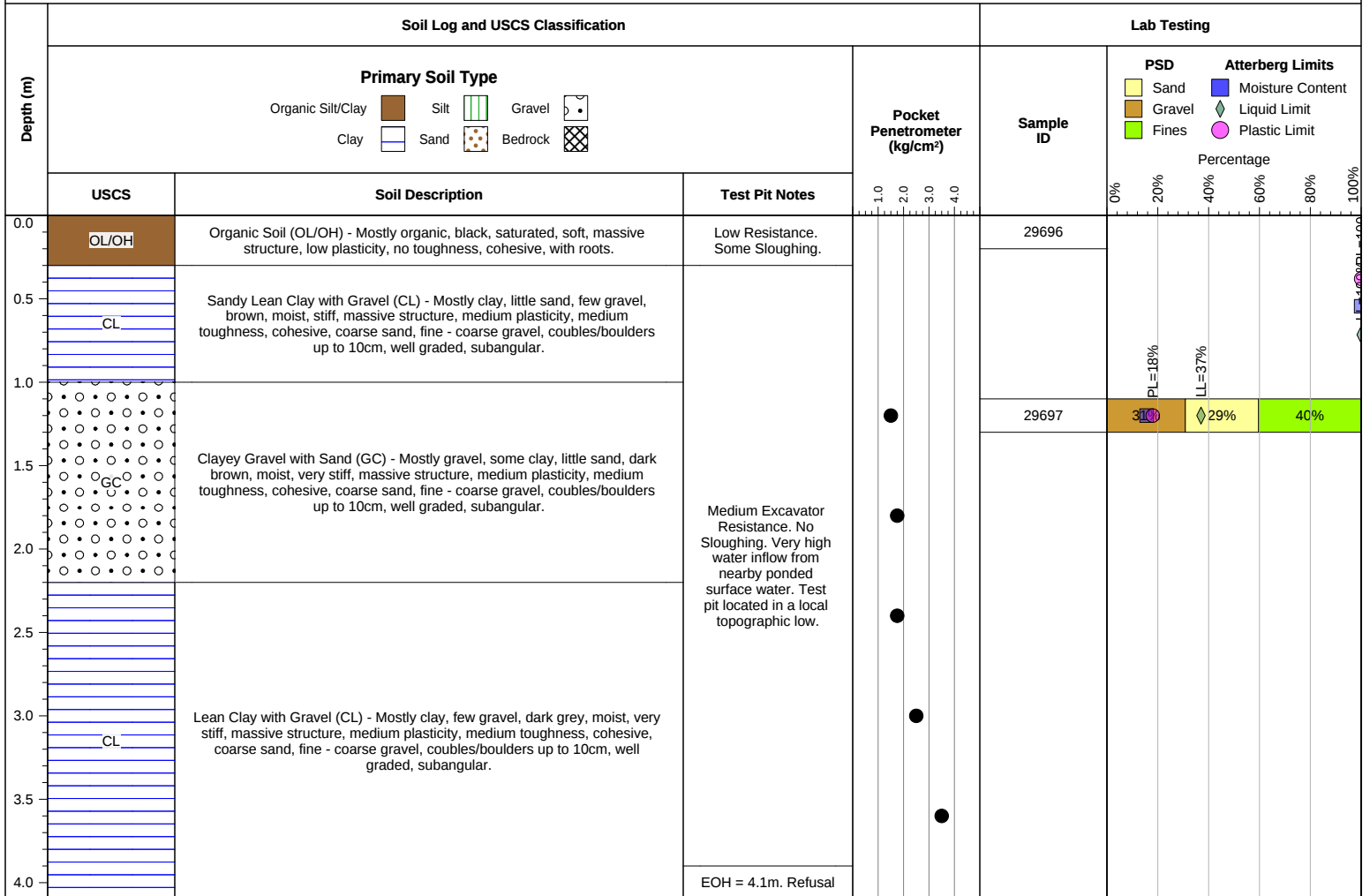
Depth (m)	Soil Log and USCS Classification			Lab Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand  Moisture Content  Gravel  Liquid Limit  Fines  Plastic Limit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	USCS	Soil Description	Test Pit Notes			Percentage																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
0.0		Sandy Lean Clay with Gravel (CL) - Mostly clay, little sand, few gravel, brown, moist, stiff, massive structure, medium plasticity, medium toughness, cohesive, coarse sand, fine - coarse gravel, cobbles/boulders up to 10cm, well graded, subangular, with roots.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											



DRILLHOLE ID: 19-55TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 619054 m E 6053453 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 801.8
TOTAL DEPTH (m): 4.1
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.



DRILLHOLE ID: 19-56TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 617534 m E 6053491 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 817.9
TOTAL DEPTH (m): 3.9
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

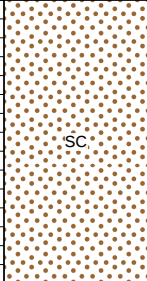
Depth (m)	Soil Log and USCS Classification				Lab Testing												
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits									
	Organic Silt/Clay		Silt				Gravel			Sand		Moisture Content					
	Clay		Sand				Bedrock			Liquid Limit		Plastic Limit					
	USCS	Soil Description				Test Pit Notes	Percentage										
0.0		Sandy Lean Clay (CL) - Mostly clay, little sand, few gravel, red brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, fine sand, med. - coarse gravel, cobbles/boulders up to 10cm, gap graded, subangular, with roots.		1.0													
0.5				2.0													
1.0		Becomes: no roots.	Medium Excavator Resistance. Minor Sloughing.	3.0													
1.5				4.0													
2.0	CL																
2.5		Becomes: mostly clay, few gravel.	High Excavator Resistance. No Sloughing. Test pit dry.														
3.0																	
3.5																	
			EOH = 3.9m. Refusal														



DRILLHOLE ID: 19-57TP
LOCATION: Tenas Exploration Site
PROJECT NO: 2CT025.006
TYPE: Test Pit
CONTRACTOR: Telkwa Coal Ltd. Excavator
LOGGED BY: EC, SRK

DRILLING DATE: 31-Jan-19 **TO:** 31-Jan-19
COORDINATES: 617712 m E 6053538 m N
DATUM: UTM NAD83, Zone 9 North
GROUND EL (masl): 813.4
TOTAL DEPTH (m): 3.6
WATER LEVEL EL (masl): N/A

PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

Depth (m)	Soil Log and USCS Classification				Lab Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Primary Soil Type			Pocket Penetrometer (kg/cm²)	Sample ID	PSD		Atterberg Limits																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Organic Silt/Clay  Silt  Gravel  Clay  Sand  Bedrock 					 Sand	 Moisture Content	 Liquid Limit	 Plastic Limit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	USCS	Soil Description	Test Pit Notes			0%	20%	40%	60%	80%	100%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
0.0	 SC	Clayey Sand with Gravel (SC) - Mostly sand, some clay, little gravel, red brown, moist, very stiff, massive structure, medium plasticity, medium toughness, cohesive, fine sand, med. - coarse gravel, cobbles/boulders up to 10cm, gap graded, subangular, with roots.	Medium Excavator Resistance. Minor Sloughing.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				



Appendix B – 2019 Rock Logs

DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

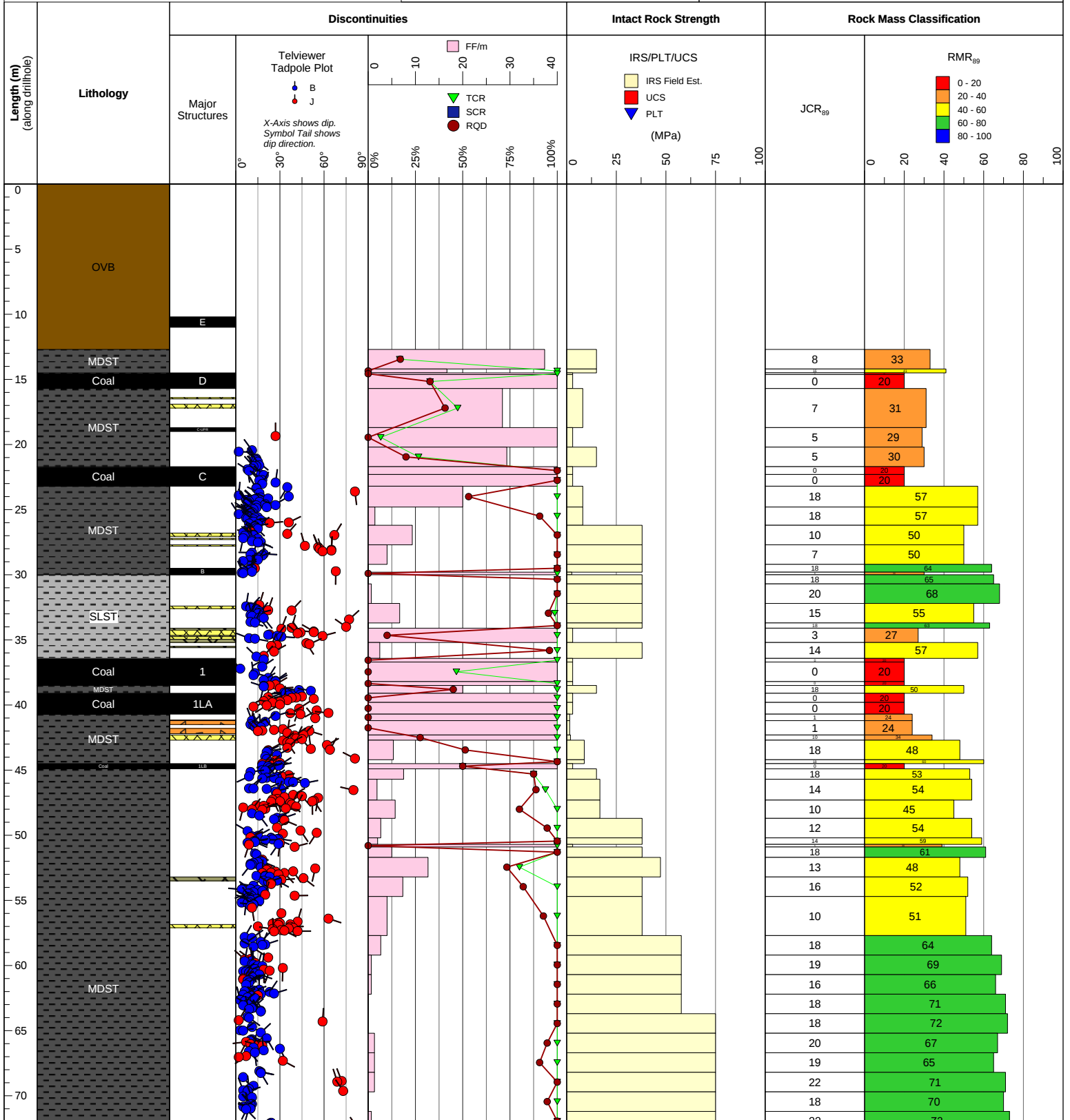
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

DRILLHOLE ID: 18-01D
LOCATION: Telkwa, BC
PROJECT NO: 2CT025.006
DRILL TYPE: Diamond
CORE DIA: PQ
CONTRACTOR: Driftwood
LOGGED BY: EC

DRILLING COMPLETION DATE: 1/30/18
COORDINATES: 617841.0 m E 6050689.0 m N
DATUM: UTM NAD83, Zone 9 North
Elevation (masl): 958.0
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 78.7
WATER LEVEL EL (masl): N/A

DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

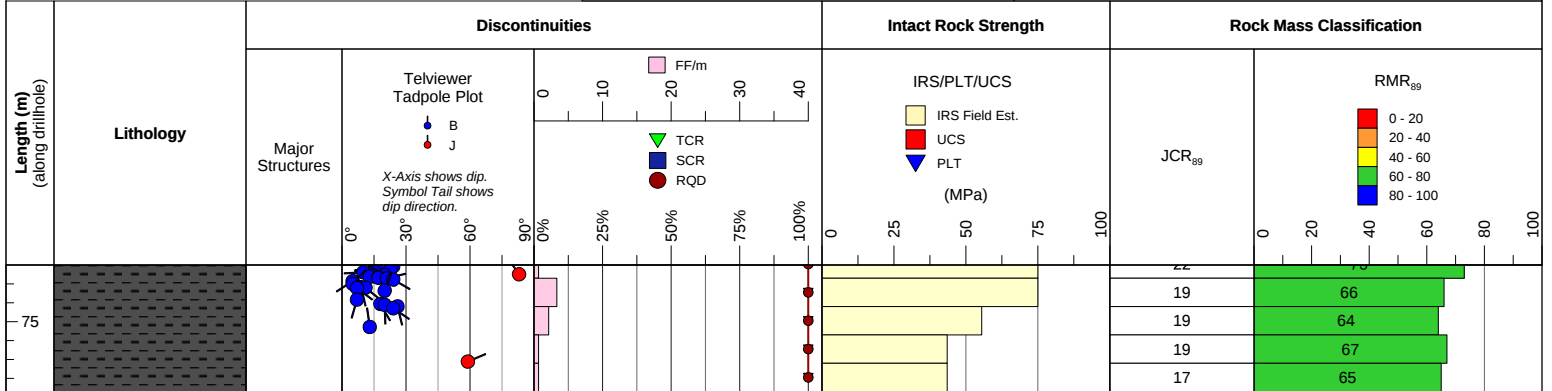
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

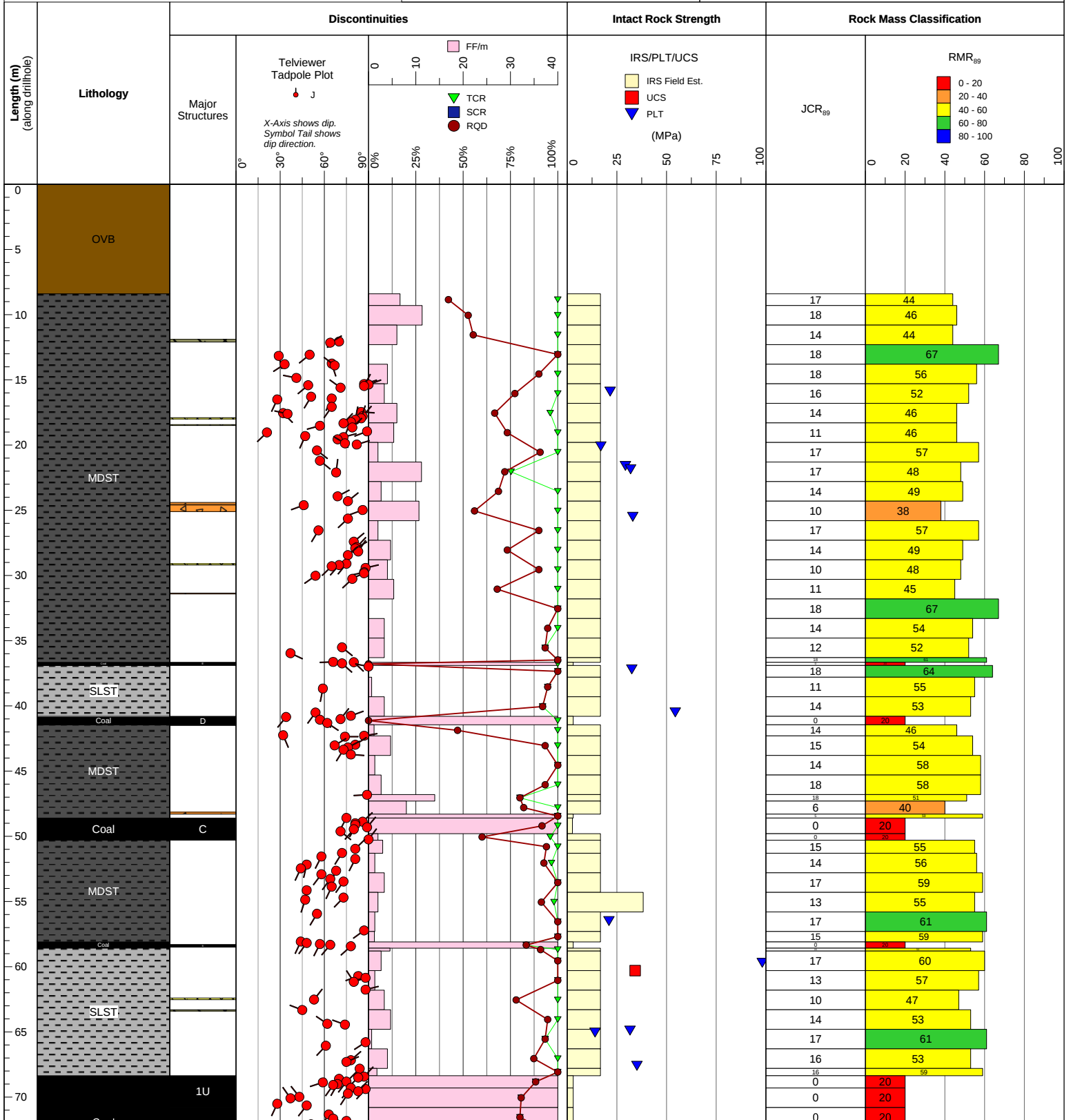
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

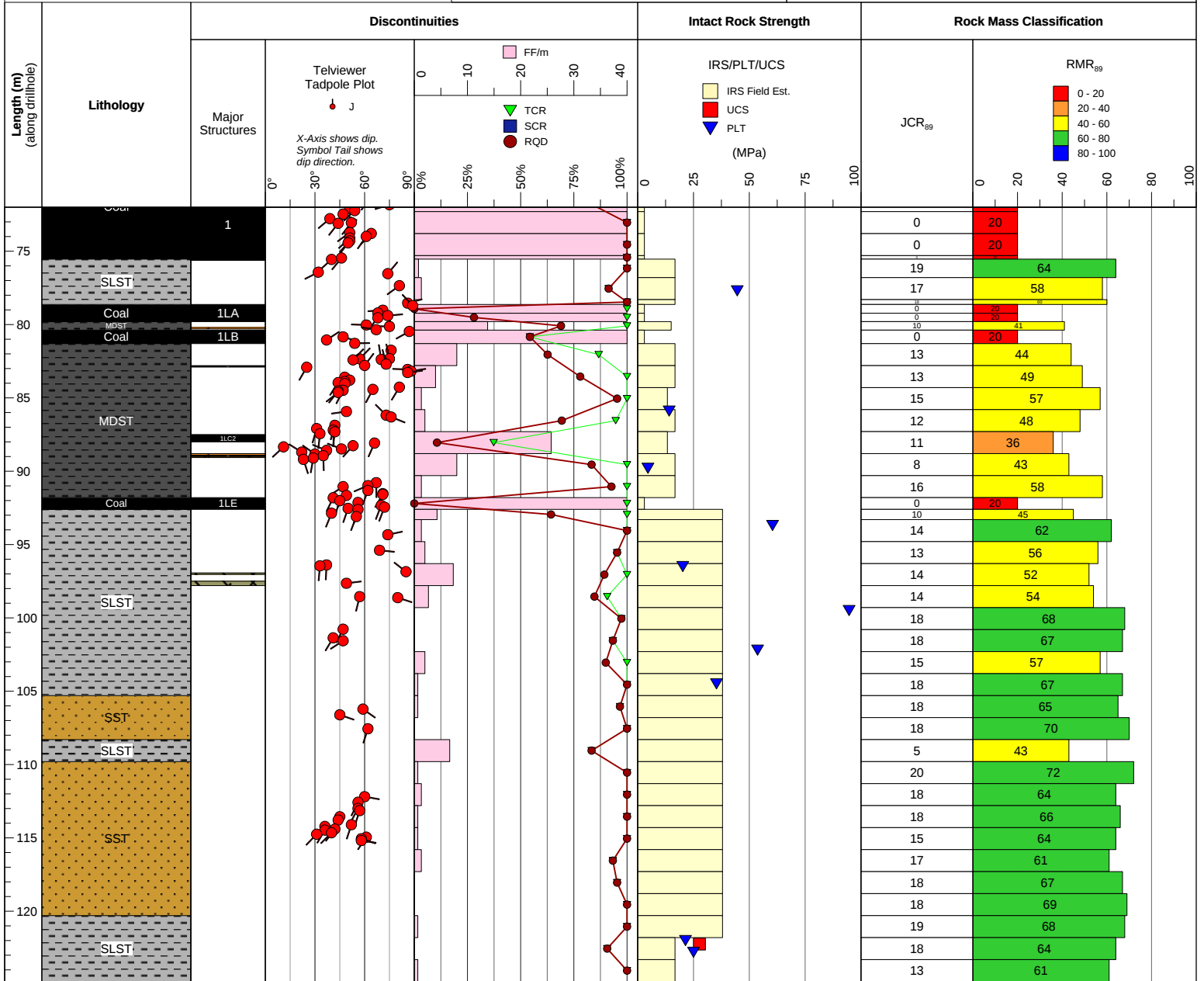
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

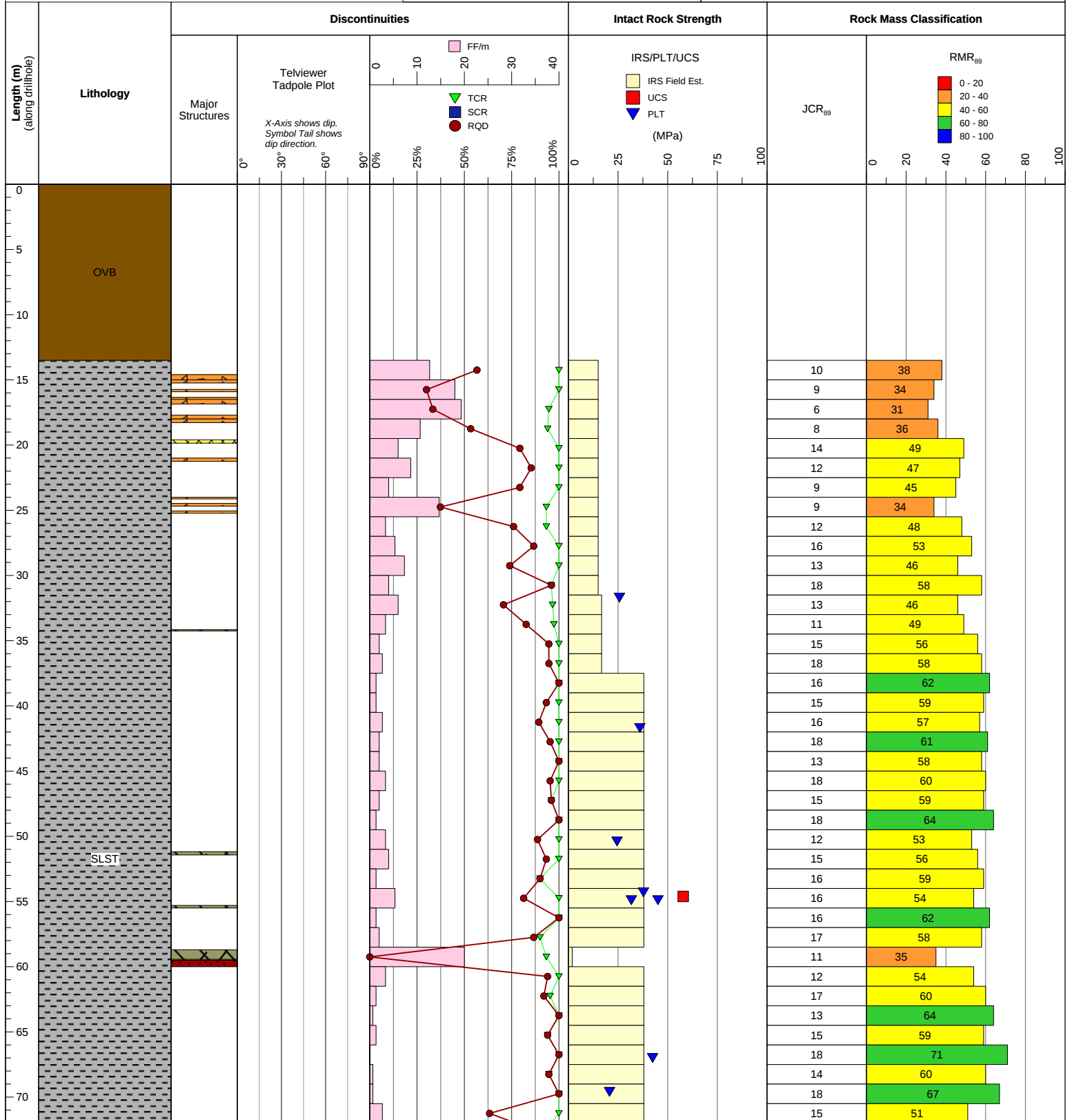
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.

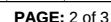


TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

 A - Solid or healed structure.
 B - Fragmented core, fractures can be counted.
 C - Fragmented core, irregular pieces, no fines.
 D - Contains a mix of clay/fines with core pieces.
 E - Contains mostly clay/fines or finely ground rock.
 Coal

Lithology logs provided by Telkwa Coal.



PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

DRILLHOLE ID: 18-05D
LOCATION: Telkwa, BC
PROJECT NO: 2CT025.006
DRILL TYPE: Diamond
CORE DIA: PQ
CONTRACTOR: Driftwood
LOGGED BY: EC

DRILLING COMPLETION DATE: 2/11/18
COORDINATES: 617988.0 m E 6051733.0 m N
DATUM: UTM NAD83, Zone 9 North
Elevation (masl): 893.0
AZIMUTH: 64° **DIP:** -70°
TOTAL LENGTH (m): 180.0
WATER LEVEL EL (masl): N/A

DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

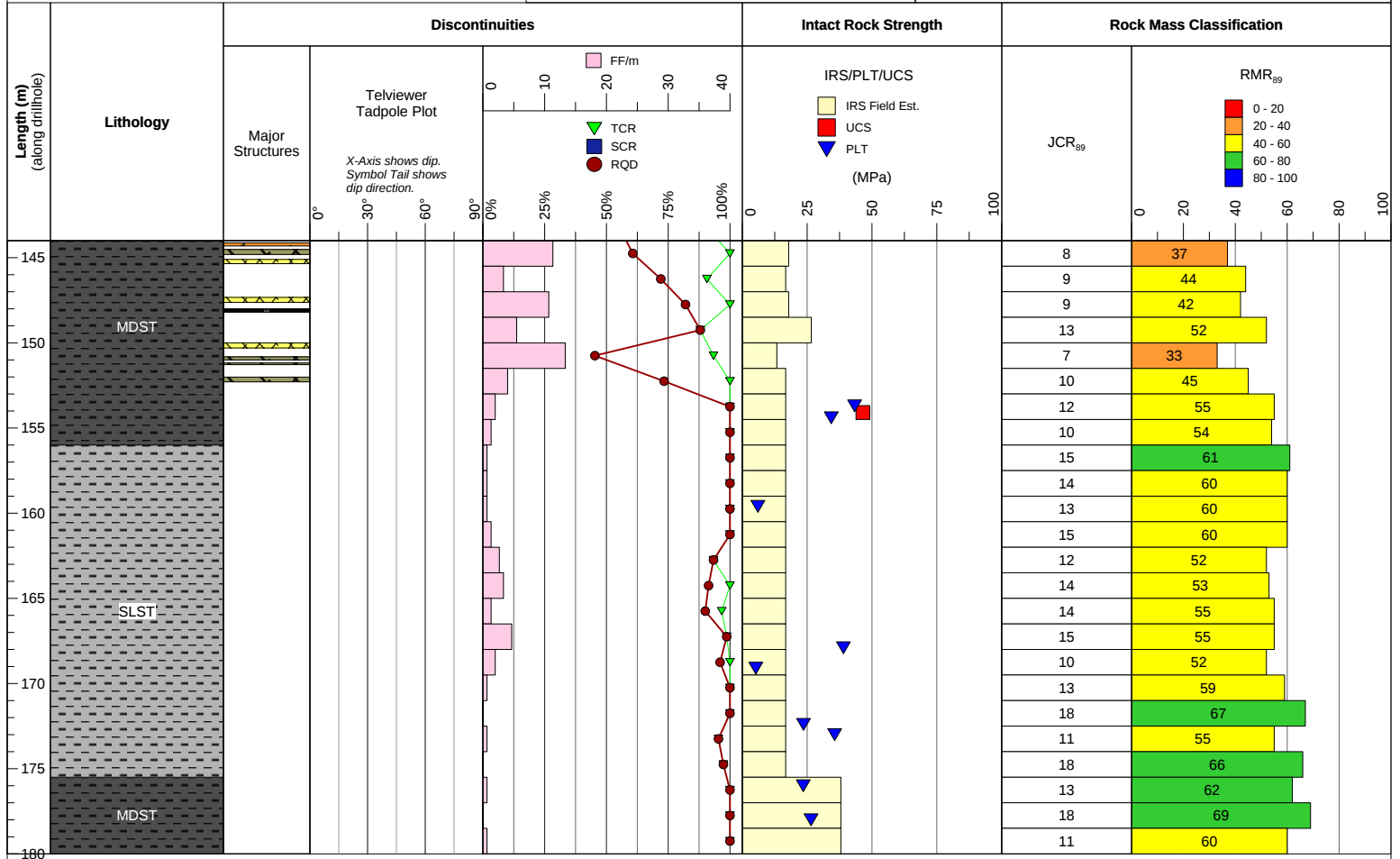
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

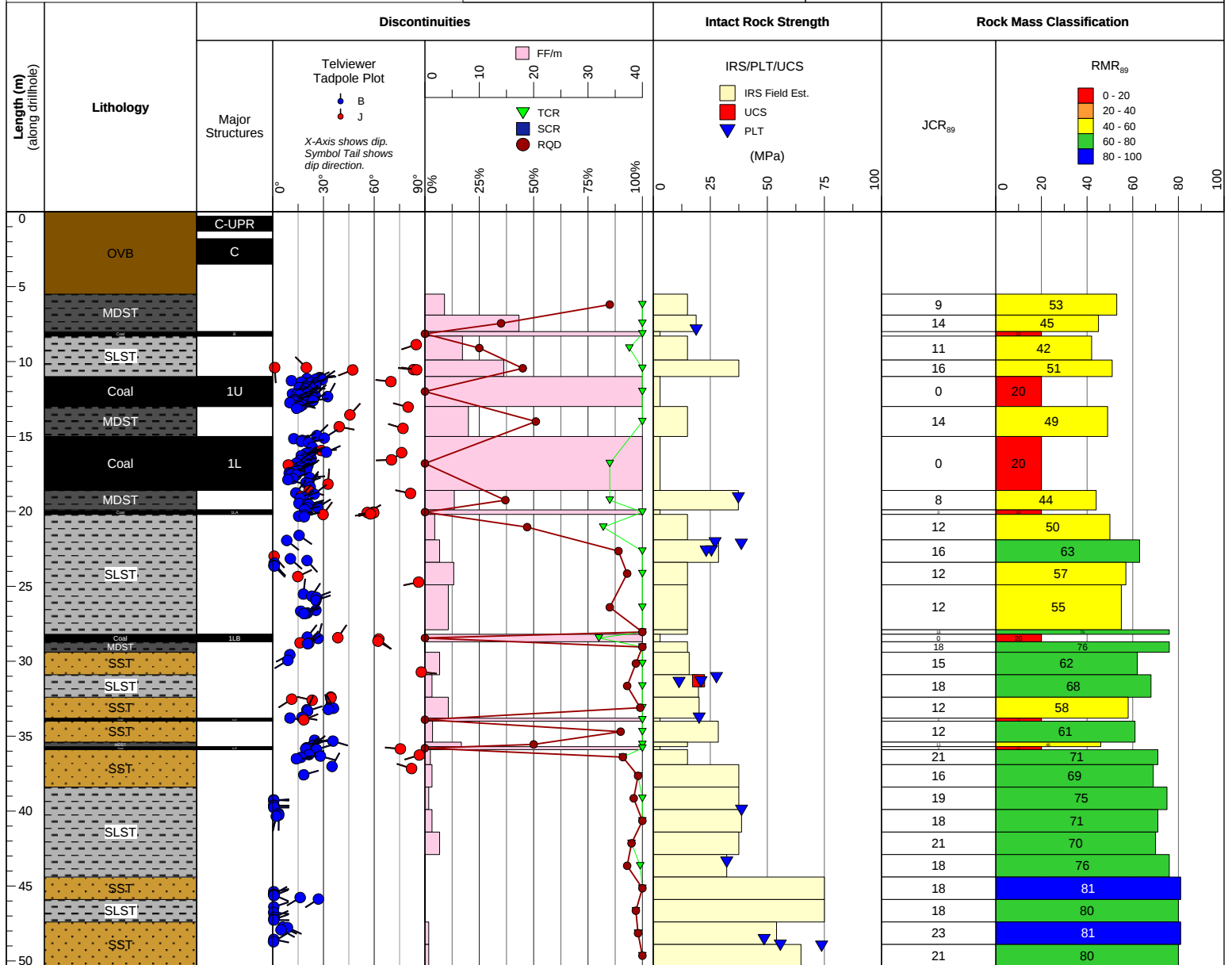
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

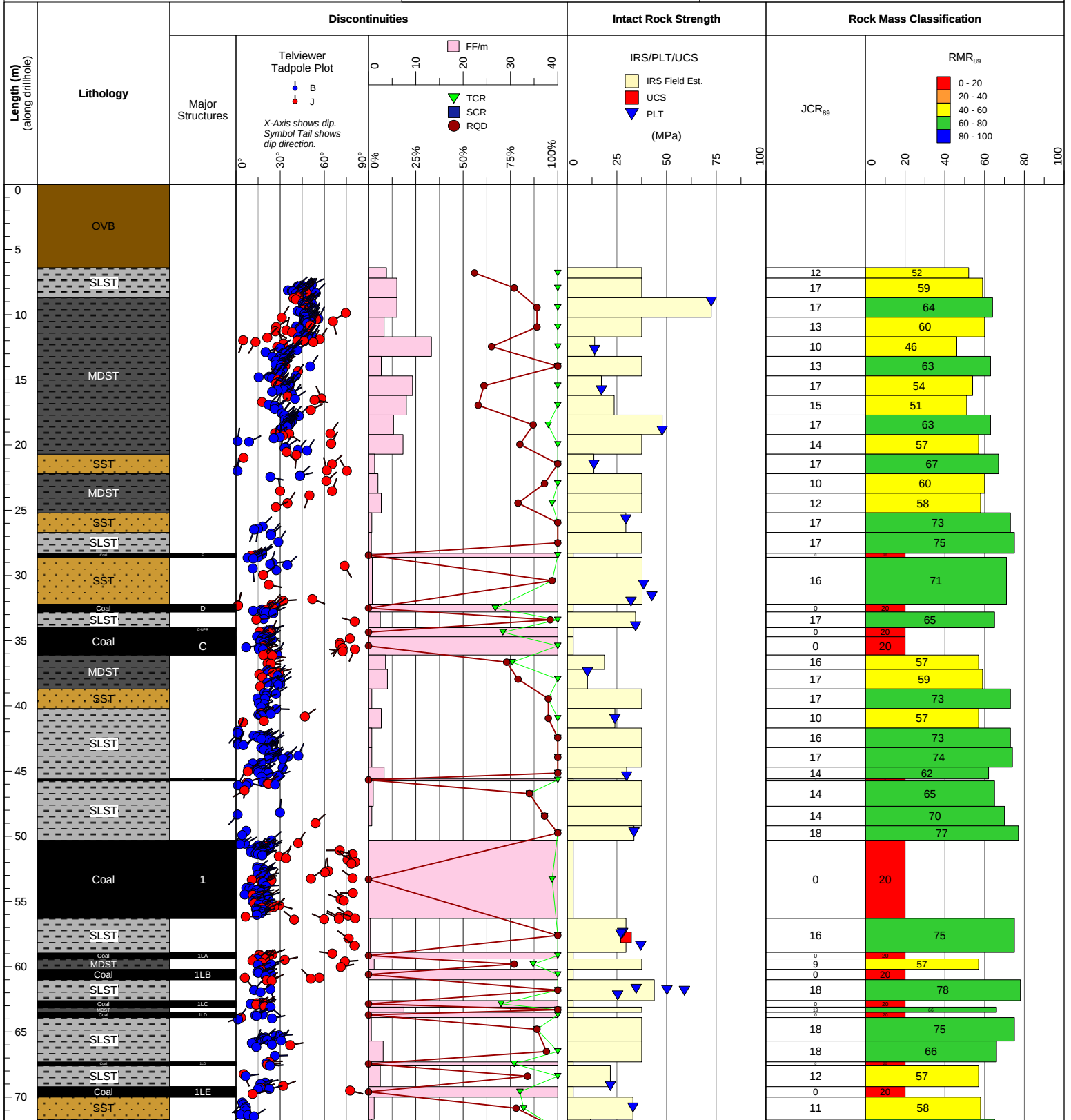
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

DRILLHOLE ID: 19-16D
LOCATION: Telkwa, BC
PROJECT NO: 2CT025.006
DRILL TYPE: Diamond
CORE DIA: PQ
CONTRACTOR: Driftwood
LOGGED BY: EC

DRILLING COMPLETION DATE: 2/24/19
COORDINATES: 618128.0 m E 6050374.9 m N
DATUM: UTM NAD83, Zone 9 North
Elevation (masl): 973.0
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 73.2
WATER LEVEL EL (masl): N/A

DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

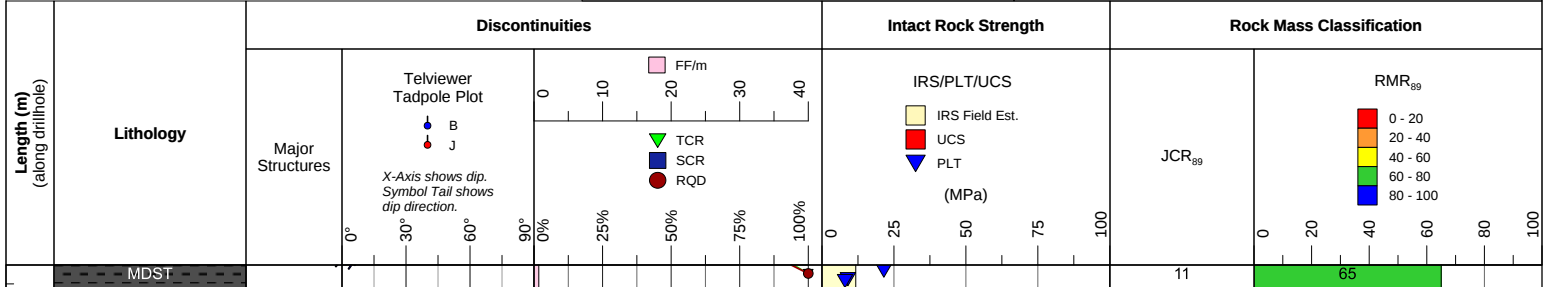
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

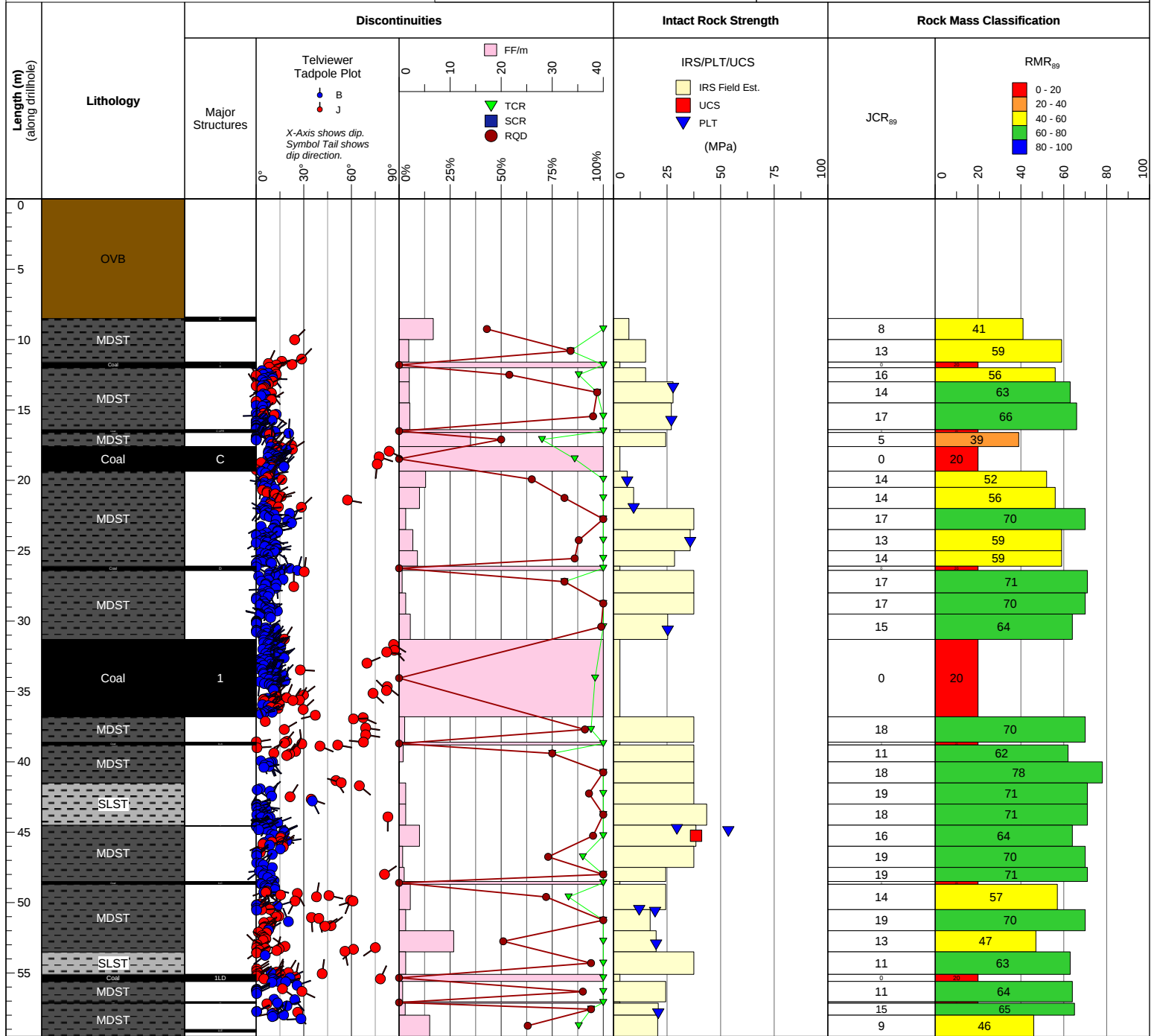
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



PROJECT: Tenas Coal Project
CLIENT: Telkwa Coal Ltd.

DRILLHOLE ID: 19-18D
LOCATION: Telkwa, BC
PROJECT NO: 2CT025.006
DRILL TYPE: Diamond
CORE DIA: PQ
CONTRACTOR: Driftwood
LOGGED BY: EC

DRILLING COMPLETION DATE: 2/27/19
COORDINATES: 617292.9 m E 6050679.3 m N
DATUM: UTM NAD83, Zone 9 North
Elevation (masl): 997.3
AZIMUTH: 0° **DIP:** -90°
TOTAL LENGTH (m): 35.5
WATER LEVEL EL (masl): N/A

DEFINITIONS:

TCR: Total Core Recovery
SCR: Solid Core Recovery
RQD: Rock Quality Designation
FF/m: Fracture Frequency per metre
JCR: Joint Condition Rating
RMR: Rock Mass Rating

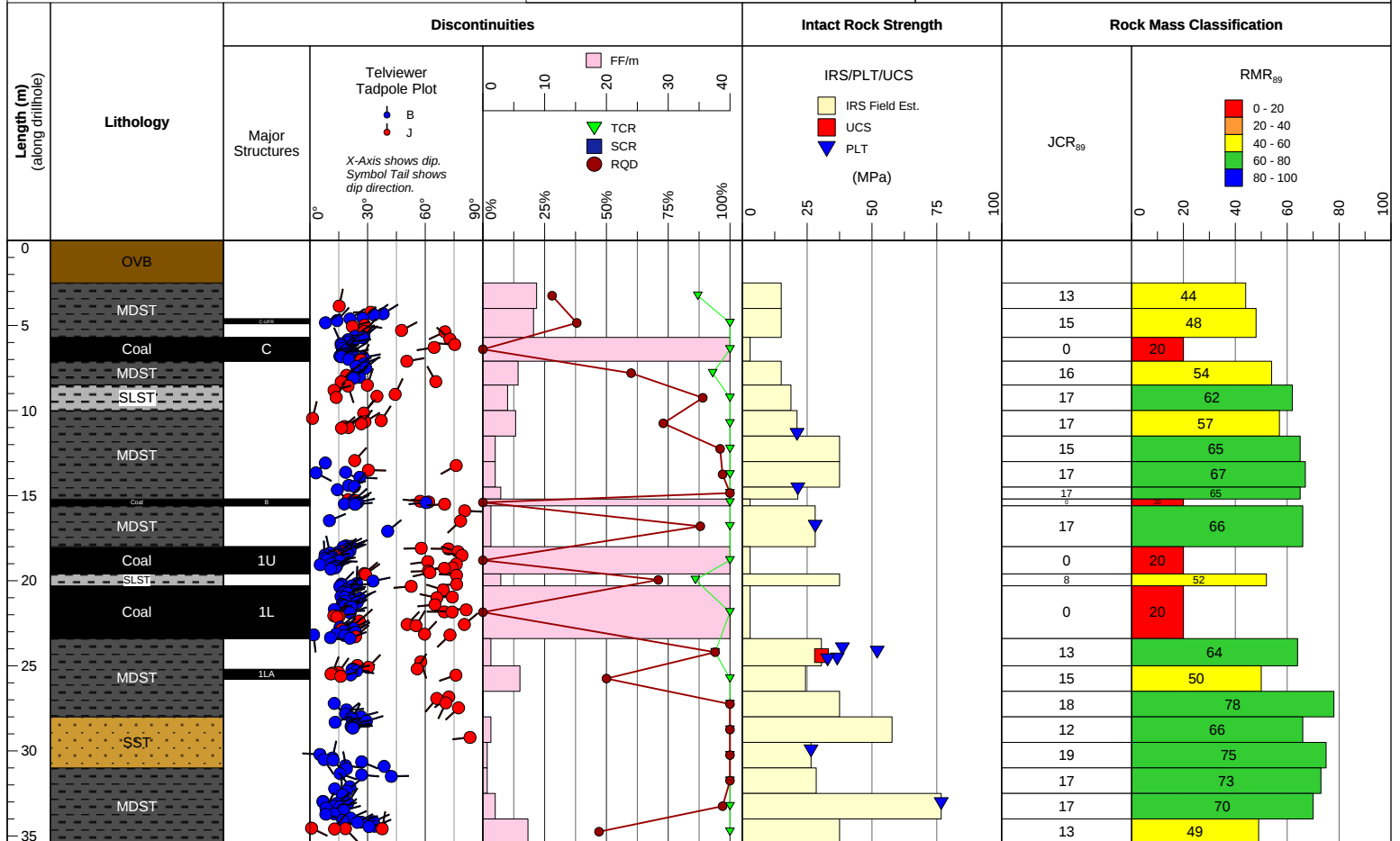
IRS: Intact Rock Strength
PLT: Point Load Test
UCS: Uniaxial Compressive Strength

MAJOR STRUCTURES LEGEND:

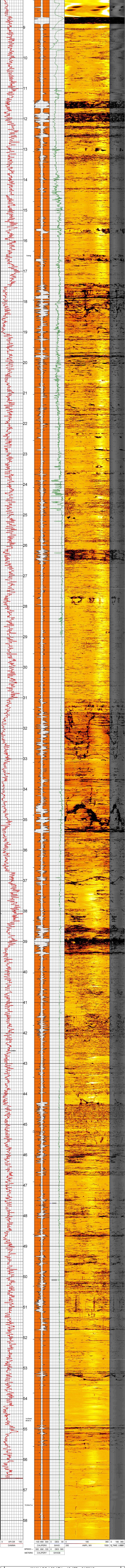
A - Solid or healed structure.
B - Fragmented core, fractures can be counted.
C - Fragmented core, irregular pieces, no fines.
D - Contains a mix of clay/fines with core pieces.
E - Contains mostly clay/fines or finely ground rock.
Coal

NOTES:

Lithology logs provided by Telkwa Coal.



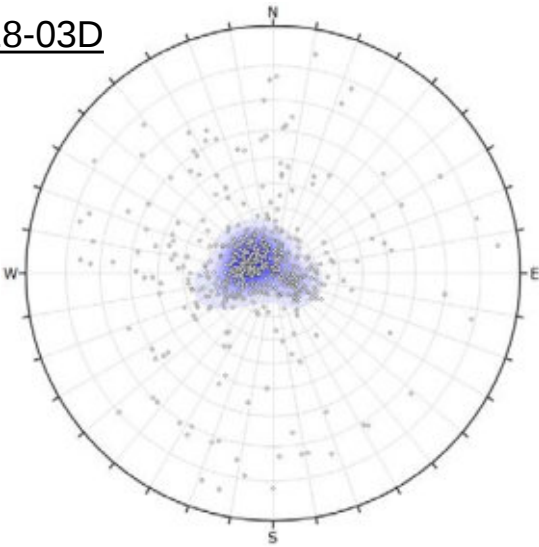
Appendix C – 2019 Acoustic Televiewer Plots and Logs

[illegible]

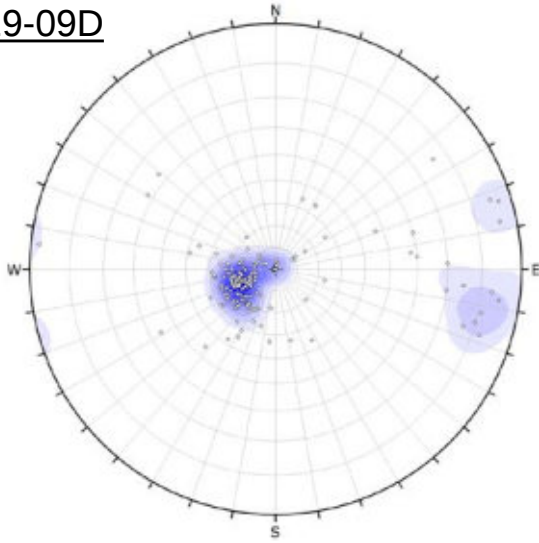
TENAS STRUCTURAL GEOLOGY

DISCONTINUITY ANALYSES

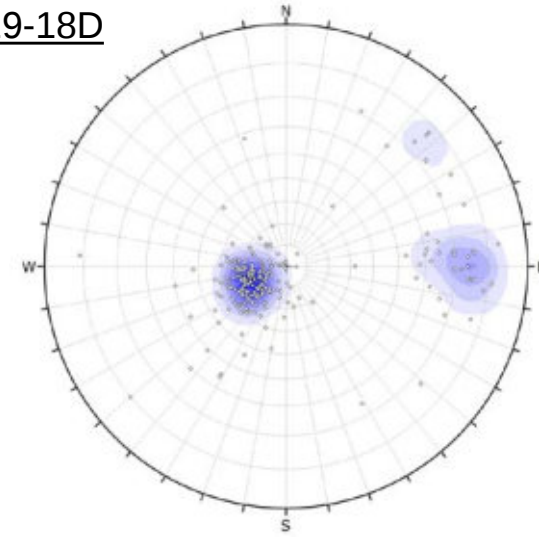
18-03D



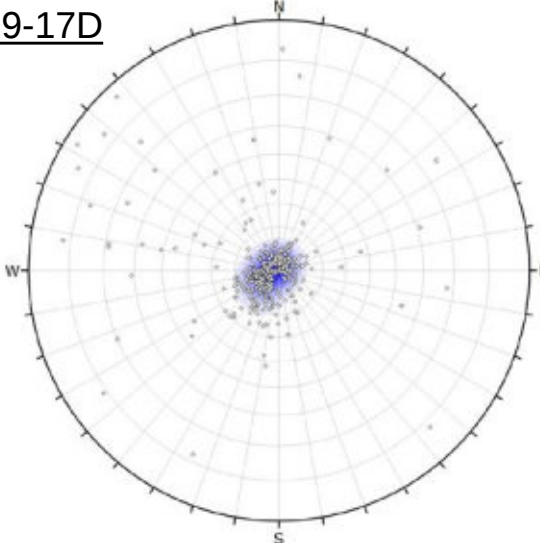
19-09D



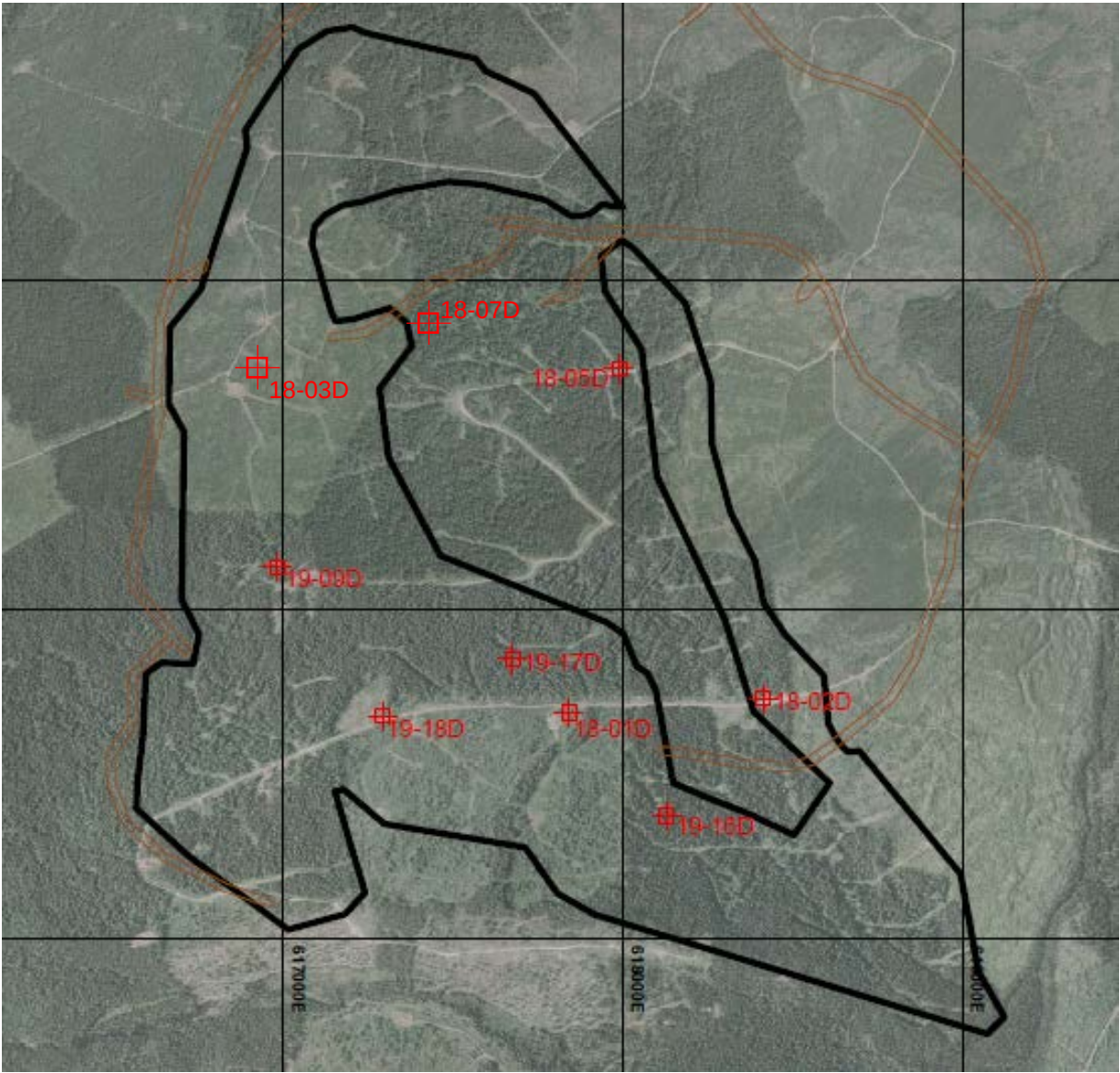
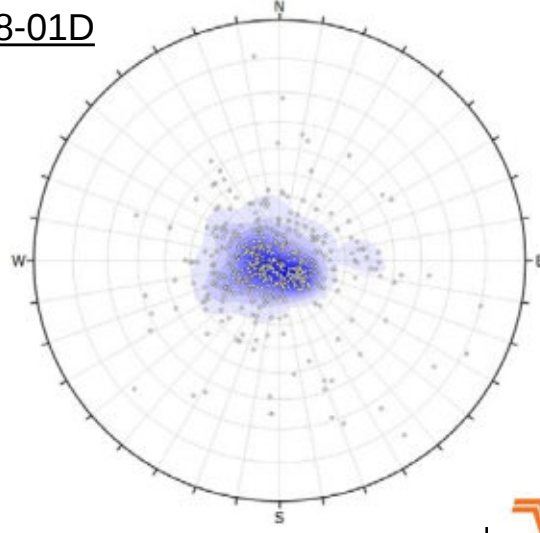
19-18D



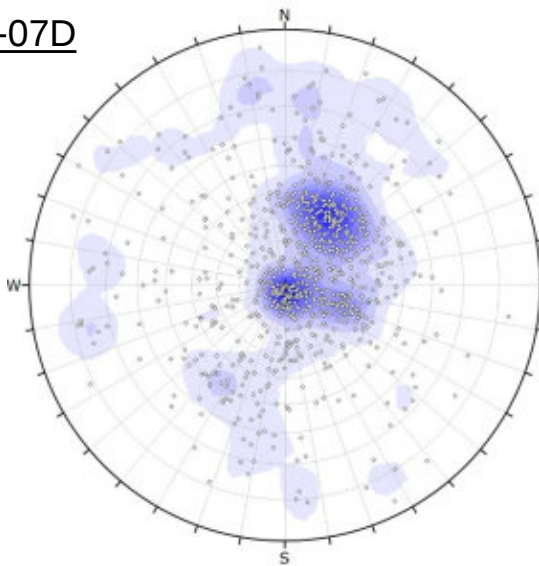
19-17D



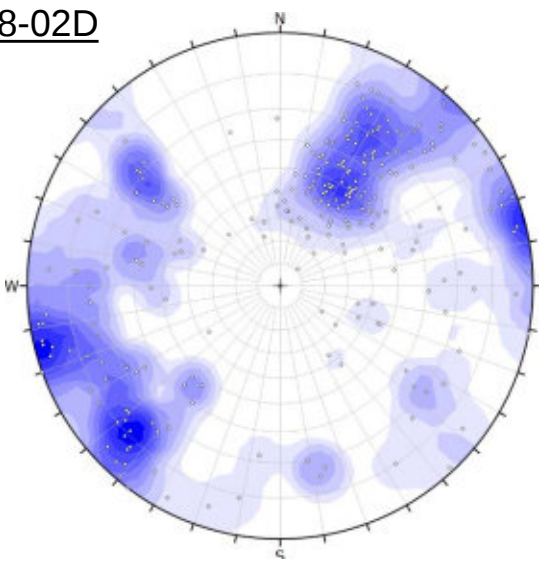
18-01D



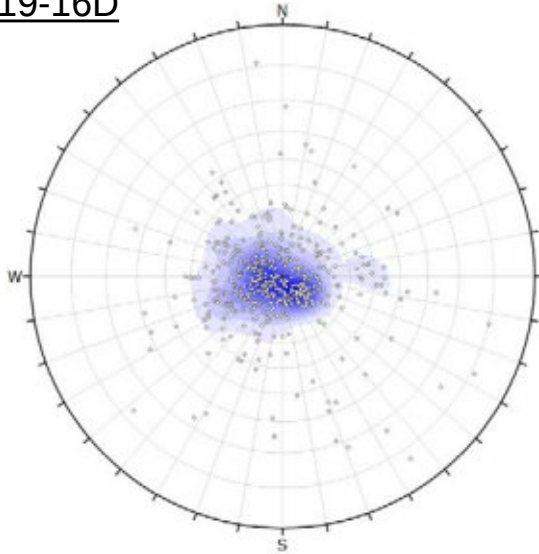
18-07D



18-02D



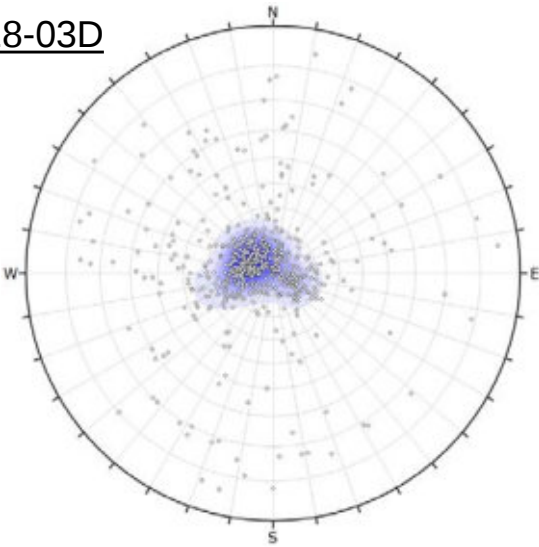
19-16D



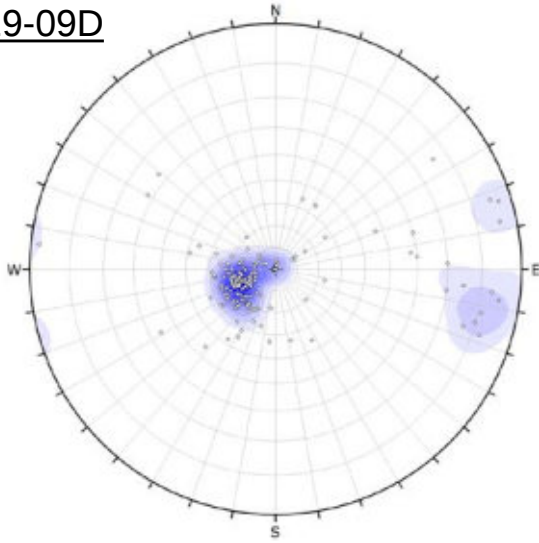
TENAS STRUCTURAL GEOLOGY

DISCONTINUITY ANALYSES

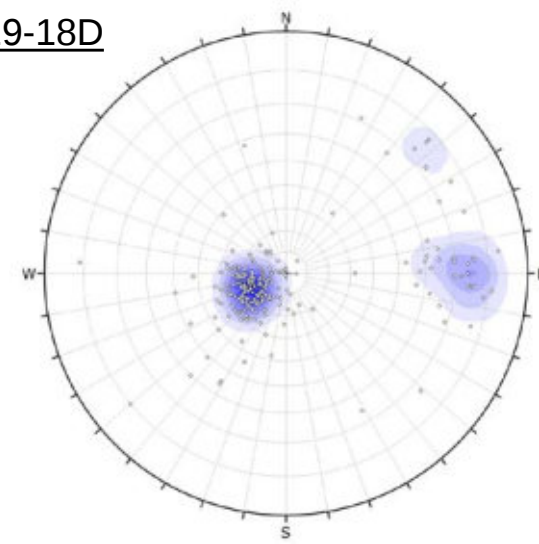
18-03D



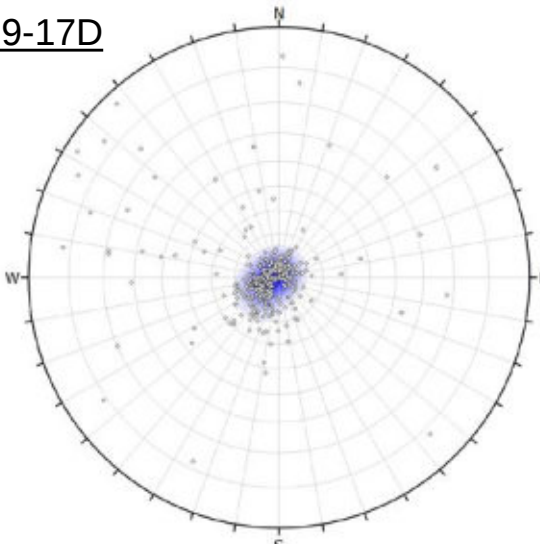
19-09D



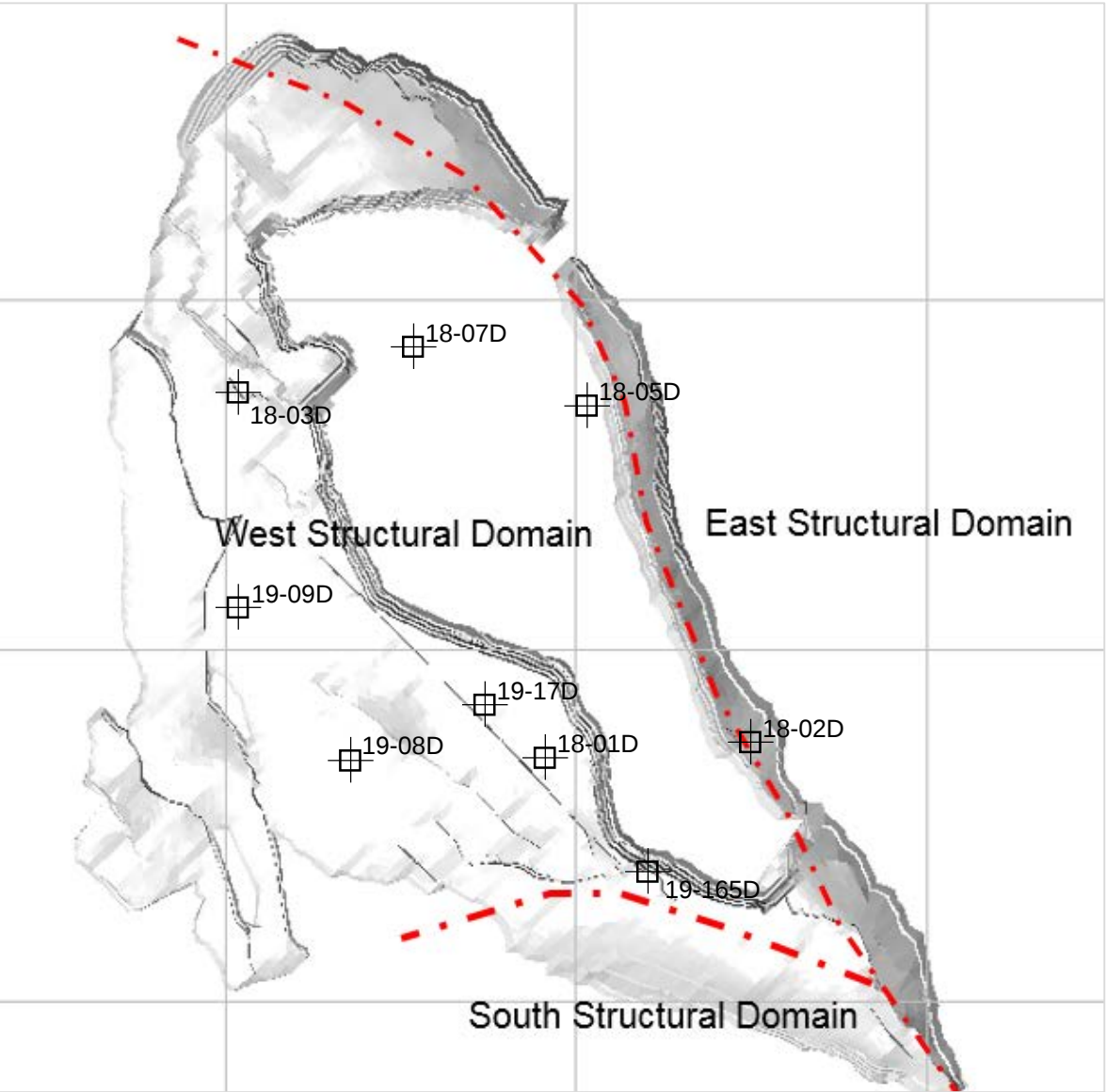
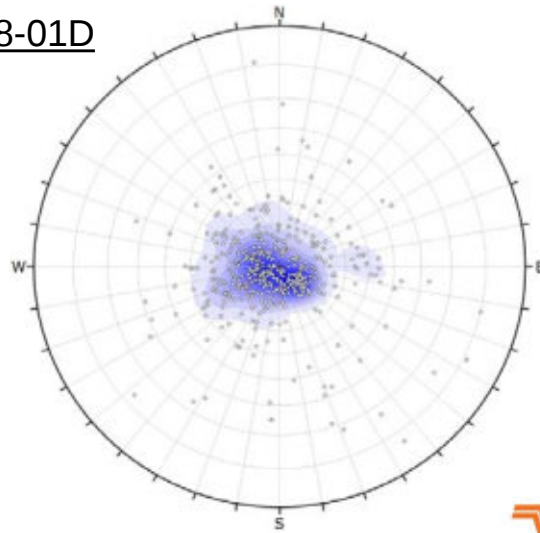
19-18D



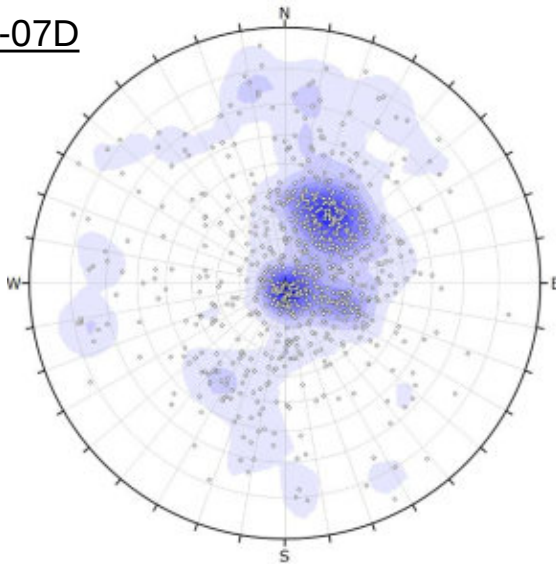
19-17D



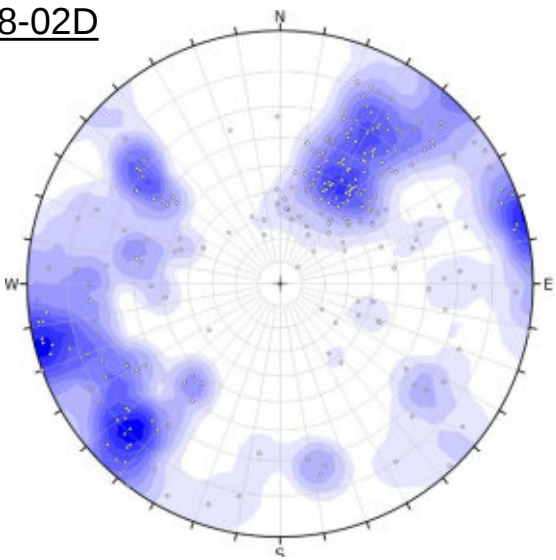
18-01D



18-07D



18-02D



19-16D

