COAL ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Assessment Report: 2016 Loop Ridge Exploration Program

TOTAL COST: $ 1,347,369

AUTHOR(S): Dave Thompson
SIGNATURE(S):

Dave Thompson

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

Mines Act Permit CX-05-019, Approval #13-1630615-0711, issued July 11, 2013

YEAR OF WORK: 2016

PROPERTY NAME: Michel Creek Coking Coal Project: Loop Ridge Property

COAL LICENSE(S) AND/OR LEASES ON WHICH PHYSICAL WORK WAS DONE:
Coal Licence #418319

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Fort Steele
NTS / BCGS: 82G
LATITUDE: ____49_____° _____38_____ ’ _____30_____"
LONGITUDE: _____114_____° _____46_____ ’ _____30____" (at centre of work)
UTM Zone: NAD83 11 EASTING: 661500 NORTHING: 5501000

OWNER(S): CanAus Coal Ltd.

MAILING ADDRESS: 5000 HWY 43, Sparwood, BC V0B 2G1

OPERATOR(S) [who paid for the work]: CanAus Coal Ltd.

MAILING ADDRESS: 5000 HWY 43, Sparwood, BC V0B 2G1

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)

Jurassic, Cretaceous, Mist Mountain Formation, Coal

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

2015 Loop Ridge Assessment Report #1013

SUMMARY OF TYPES OF WORK IN THIS REPORT		EXTENT OF WORK (in metric units)	ON WHICH TENURES
GEOLOGICAL (scale, area)			
	Ground, mapping		
	Photo interpretation		
GEOPHYSICAL (line-kilometres)			
	Ground		
	(Specify types)		
	Airborne		
	(Specify types)		
	Borehole	26 holes	
	Gamma, Resistivity,	2343m	418319
	Resistivity	2343m	418319
	Caliper	2343m	418319
	Deviation	2343m	418319
	Dip		
	Others (specify)		
DRILLING			
25	Core	2145m	418319
1	Non-Core	198m	418319
SAMPLING AND ANALYSES			
26	Proximate	4 seams + blend	418319
26	Ultimate	4 seams + blend	418319
9	Petrographic	4 seams + blend	418319
9	Vitrinite reflectance	4 seams + blend	418319
2	Coking	1 seam + blend	418319
26	Wash tests	4 seams + blend	418319
PROSPECTING (scale/area)			
PREPARATORY/PHYSICAL			
Line/grid (km)			
Trench (number, metres)			
Bulk sample(s)			

Part of Section 1, all of Section 6, and Appendix D remain confidential under the terms of the Coal Act Regulation, and have been removed from the public version.

http://www.bclaws.ca/civix/document/id/complete/statreg/251_2004

ASSESSMENT REPORT

2016 Loop Ridge Exploration Program

Owner and Operator: CanAus Coal Ltd.

Authorship: ***Dave Thompson, P.Geo.***
Chief Geologist, CanAus Coal Ltd.

January 2017

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

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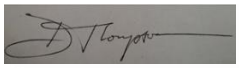

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

1. **Mines Act Permit CX-05-019, Approval #13-1630615-0711, issued July 11, 2013**

YEAR OF WORK: 2016
PROPERTY NAME: Michel Creek Coking Coal Project, Loop Ridge Property
CLAIM NAME(S) (on which work was done): Coal Licence #418319

COMMODITIES SOUGHT: Coal

MINING DIVISION: FORT STEELE
NTS / BCGS: 82G/10W
LATITUDE: 49° 38' 30" N
LONGITUDE: 114° 46' 30" W (at centre of work)
UTM Zone: 11 EASTING: 661,500m NORTHING: 5,501,000m

OWNER(S): CanAus Coal Limited

MAILING ADDRESS: #5000 Hwy 43, Sparwood, BC V0B 2G1

OPERATOR(S) [who paid for the work]: CanAus Coal Limited

REPORT KEYWORDS: Jurassic/Cretaceous, Mist Mountain Formation, Coal

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: Assessment Report – 2015 Loop Ridge Exploration Program **#1013**

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1 Introduction and Summary

This report describes the exploration work conducted on the Loop Ridge property owned by CanAus Coal Ltd. (CanAus) in the Michel Creek area near Sparwood, BC (Figure 1.1).

In 1964, Crow's Nest Pass Coal Co. explored the property and completed a test pit in 1969, mining between 60,000t and 100,000t. Further test pit mining of 50,000t was completed by McGillivray Mining and Fording Coal in 1995 and 1996. Fording Coal completed two drill programs on the property in 1998 and 1999, totaling 36 holes.

In 2013, exploration conducted by CanAus on Loop Ridge included 37 reverse circulation geology drillholes, four reverse circulation pilot drillholes for coring, and eight large diameter core holes. Samples were taken during the reverse circulation geology drilling which were used to map coal seam rank variability. The large diameter core was analyzed for detailed washability and coking coal characteristics. [redacted]

The 2014 Exploration Program on Loop Ridge fulfilled the requirements of a pre-feasibility study and included 66 reverse circulation drillholes, 19 reverse circulation pilot drillholes for coring and reverse flood sampling, 13 large diameter core holes, 8 HQ3 core holes and 2 large diameter reverse flood drillholes. Coal samples from the large diameter holes were analyzed for detailed sizing, washability and coking coal characteristics. [redacted]

In 2015, 20 reverse circulation drillholes were completed on Coal Licenses 418319 and 418632 for the installation of piezometers and to collect coal samples. Fourteen trenches were excavated on Coal License 418632, exposing several seams with true thicknesses up to10m.

The 2016 program included the collection of coal samples from 25 large diameter (15cm) core holes on Coal License 418319. Approximately 6620kg of coal was collected from the four main target seams: LR10, LR11, LR18 and LR20. The samples were processed in a pilot plant in Golden, Colorado and carbonized at Canmet Energy Labs in Ottawa, Ontario.

[redacted]

Figure 1.1 Location Plan

2 Property and Location

2.1 Ownership

Mineral rights are wholly owned by CanAus Coal Ltd. Surface rights are held by Jemi Fibre Corporation as part of their free-hold Tent Mountain Block 21. There are no oil and gas drilling activities on the property; however, the TransCanada Pipeline, which carries natural gas from wells in Alberta and transports it south across the Canada-United States border, cuts the property in half from east to west.

At this time there are no environmental liabilities identified on the property.

2.2 Property

The approximate centre point of the Loop Ridge property is 5,501,000N and 661,500E (UTM NAD 83). The Loop Ridge property, held by CanAus, represents seven coal licenses (Table 2.2.1). A location map shows information on the licenses (Figure 2.2.1).

Table 2.2.1 Loop Ridge Property Coal Licenses

Coal Licence	Property Name	Approx. Area (ha)
418319	Loop Ridge	409
418624	Loop Ridge Phase 2	689
418628	Loop Ridge Phase 2	24
418629	Loop Ridge Phase 2	1
418630	Loop Ridge Phase 2	4
418631	Loop Ridge Phase 2	151
418632	Loop Ridge Phase 2	1160
Total Area		**2438**

The property is situated in the northwest trending Front Ranges of the Rocky Mountains physiographic region, which is characterized by a series of steep mountains running to the northwest, incised by west flowing streams. Figure 2.2.1 shows the Loop Ridge property as the red and hashed area. Elevations range from ~1,400m along Michel Creek to a height of 1,680m at Loop Ridge.

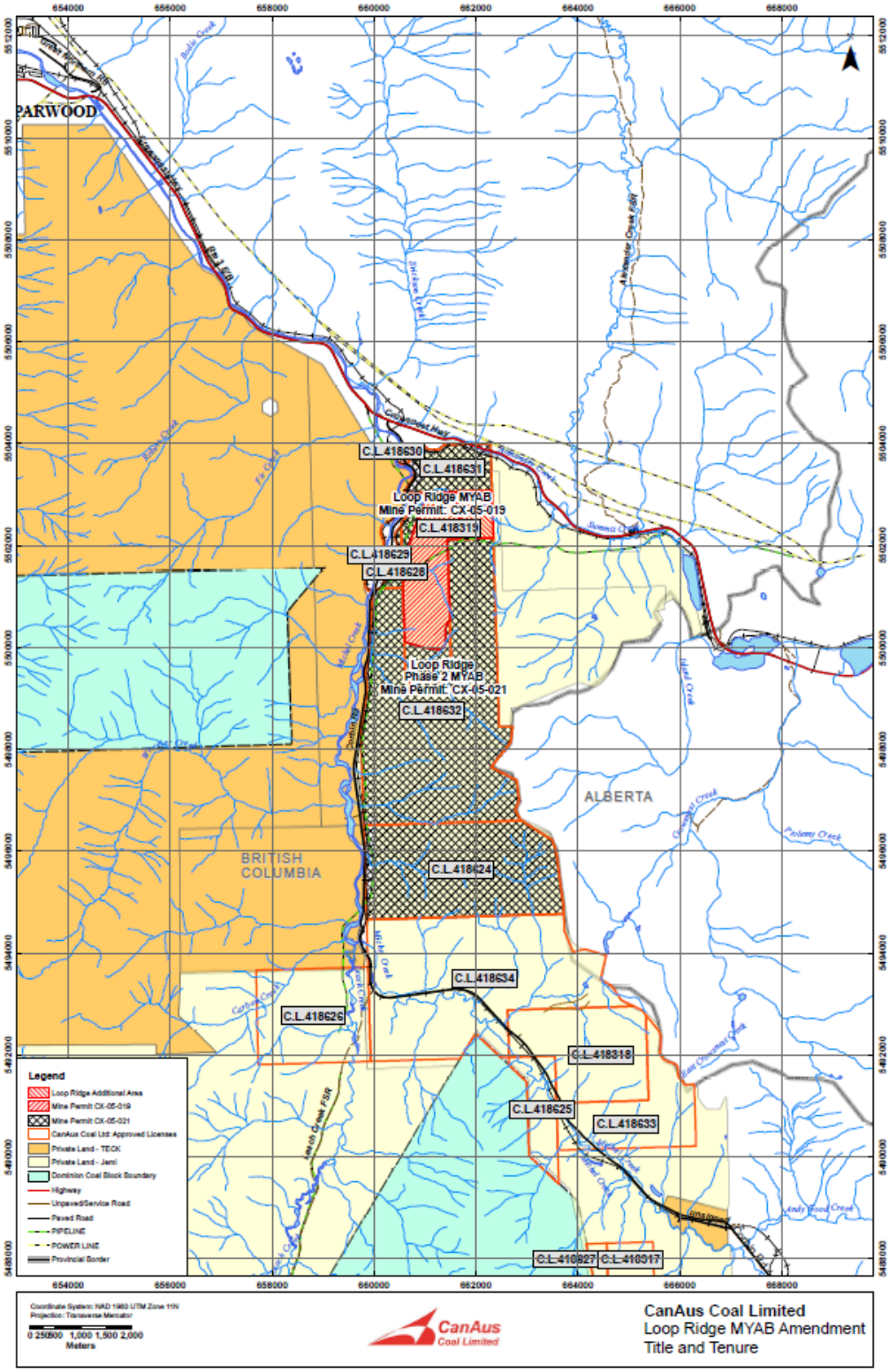
The Loop Ridge property is located between two open pit coal mines owned and operated by Teck Coal Ltd. The Teck Elkview Operations produce metallurgical coal ~10km north from the center of the Loop Ridge property and their Coal Mountain Operations produce both thermal and PCI coal ~19km south from the centre of the Loop Ridge property.

The climate is characterized by long, cold winters and short, cool to hot summers. In Sparwood, the temperature ranges from a record high of 39°C in the summer to a record low of -39.8°C in the winter, with a mean maximum in August of 23.6°C and a mean minimum in December of -11.6°C. Temperatures at the higher altitudes of the property would be slightly lower. The average amount of precipitation in Sparwood is 603mm with an equivalent of 248cm of that falling as snow. Loop Ridge generally has dense forest cover of pine and spruce; however, a significant portion of the property has been logged in recent years.

2.3 Location and Access

The Michel Creek Coking Coal Project is located southeast of the town of Sparwood in the Michel Creek valley, southeast British Columbia. Primary road access to the general area is via the Crowsnest Highway (Highway 3), which is an all-weather paved major highway connecting Sparwood with Fernie in the west and communities of the Crowsnest Pass in the east. The project area is accessed by driving east from Sparwood along Highway 3 for 11km and turning south onto Corbin Road. From Corbin Road, access to the Loop Ridge property is a further 4km. A network of logging and exploration trails on the property is utilized for drilling access.

Figure 2.2.1 – License Plan



3 Program Overview

3.1 Goals and Parameters

Similar to 2015, the 2016 exploration program was intended to gather sufficient coal samples from Seams 10, 11, 18 and 20 to evaluate the individual seam qualities as well as determine potential seam blend products through carbonization testing.

3.2 History

The Loop Ridge property was geologically mapped by Crow's Nest Pass Coal Company in 1964. Seven trenches, two adits, and at least 12 coal exploration drillholes were completed. In 1969, the Crow's Nest Pass Coal Co. mined the McGillivray Pit at the north end of the Loop Ridge property. Approximately 60,000t to 100,000t of coal was mined and trucked to the Michel preparation plant. In 1993, McGillivray Mining Ltd. completed an agreement with Tembec to mine at the old McGillivray site. Environmental studies were completed and a bulk sample permit was obtained in 1995, at which time approximately 20,000t of coal was mined and trucked to the Elkview plant near Sparwood. In 1996, Fording Coal purchased McGillivray's property and rights from Tembec and mined a further 30,000t. The second bulk sample was trucked to the Coal Mountain mine, approximately 19km to the southeast. Fording Coal completed two drill programs on the entire Loop Ridge property, one in 1998 (18 holes) and another in 1999 (18 holes). A historic resource estimate by Crow's Nest Pass Coal Co. Ltd. indicated a total of 153.6Mt within 460m of surface with a further 13.3Mt between the depths of 460m and 760m. The Loop Ridge coal licenses were acquired by CanAus Coal Ltd. in 2012.

In 2013, CanAus Coal completed 37 reverse circulation geology drillholes, four reverse circulation pilot drillholes for coring, and eight large diameter core holes. Samples from the reverse circulation geology drilling were used to map coal seam rank variability. The large diameter core was analyzed for detailed washability and coking coal characteristics. A 3D resource model was prepared and a resource estimate was calculated.

In 2014, CanAus completed 66 reverse circulation geology drillholes, 19 reverse circulation pilot drillholes for large diameter coring and reverse flood sampling, 13 large diameter (15cm) core holes, 8 HQ3 (6.1cm) core holes and 2 large diameter (44cm) reverse flood drillholes to confirm and expand on the 2013 and historic data (Figure 3.3.1 and Table 3.3.1). Samples were collected from reverse circulation, reverse flood and core drilling and the coal was analyzed for detailed washability and coking coal characteristics. A 3D block model was prepared and a resource estimate was calculated.

In 2015, a total of 20 reverse circulation drillholes were completed. Six of the holes were drilled for the installation of piezometers to monitor groundwater conditions. Six of the holes were drilled

as pilot holes for the identification of coal seams for the large diameter drilling. Eight large diameter reverse flood (44cm) holes were drilled to collect coal samples for carbonization testing.

3.3 2016 Drilling

In 2016, a total of 25 large diameter (15cm) core drillholes were completed on Coal License 418319 at four locations. At one location, a reverse circulation drillhole was completed as a pilot hole for the identification of coal seams for the large diameter drilling. The large diameter core holes were drilled to collect coal samples for carbonization testing. A total of 2,343m of drilling was completed, including 198m of reverse circulation pilot hole drilling and 2145m of large diameter core drilling (Figure 3.3.1 and Table 3.3.1).

All of the 2016 drill holes were geophysically logged with open-hole density and deviation tools.

All drill collars were surveyed with base-station corrected differential GPS equipment to centimetre-level accuracy.

Figure 3.3.1 Loop Ridge Exploration Plan

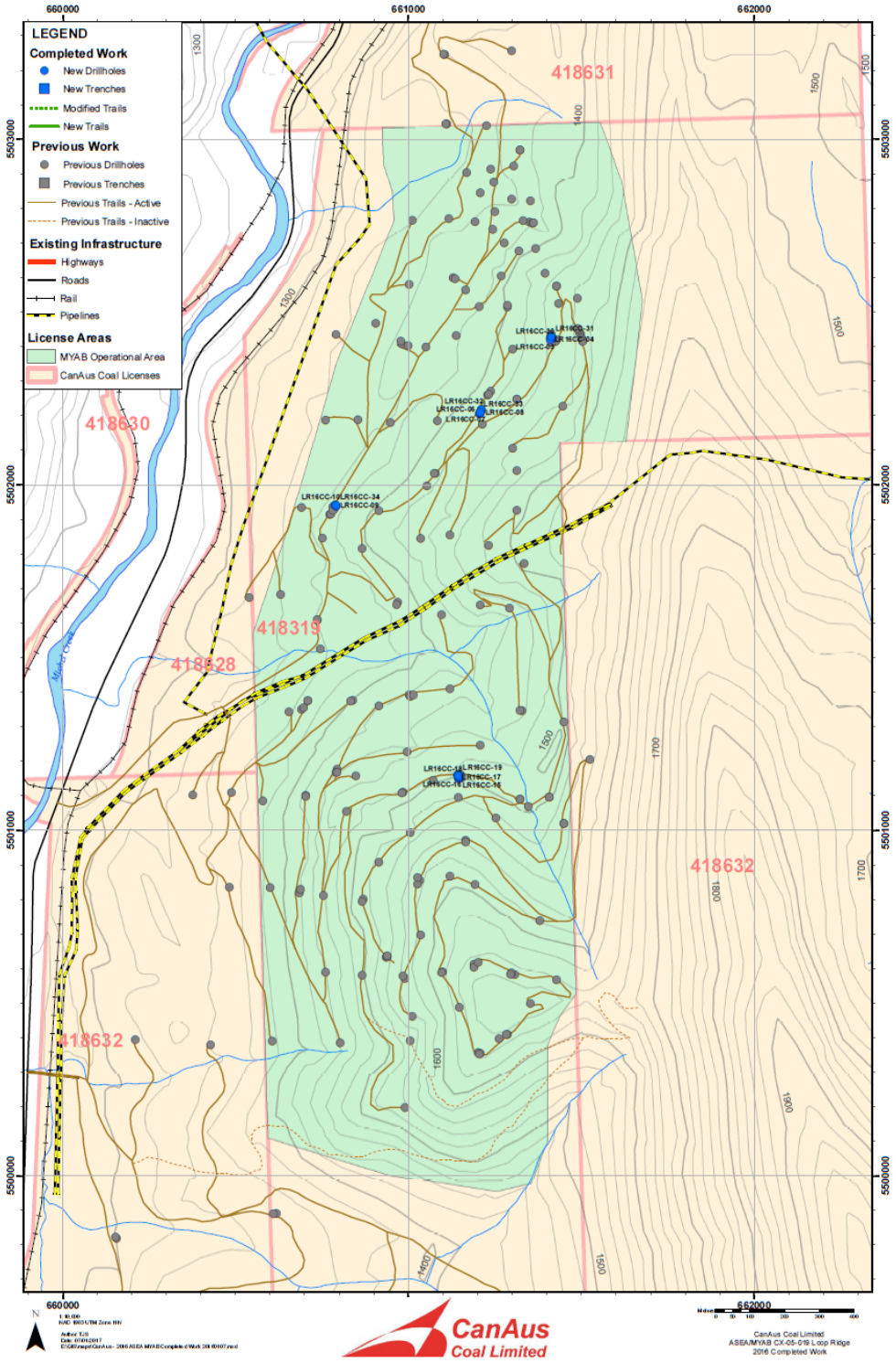


Table 3.3.1 Drillhole Locations

Hole ID	Type	Seam	Easting	Northing	Elevation	Depth	Azimuth	Dip
LR16RC-01	RC pilot	LR10, 11	661208	5502212	1404	198	0	-90
LR16CC-01	LDC	LR11	661415	5502426	1434	50	0	-90
LR16CC-02	LDC	LR11	661415	5502422	1434	50	0	-90
LR16CC-03	LDC	LR11	661410	5502423	1434	58	0	-90
LR16CC-04	LDC	LR11	661411	5502427	1434	56	0	-90
LR16CC-05	LDC	LR10	661205	5502206	1404	189	0	-90
LR16CC-06	LDC	LR10	661206	5502207	1404	191	0	-90
LR16CC-07	LDC	LR10	661210	5502214	1404	191	0	-90
LR16CC-08	LDC	LR10	661210	5502216	1404	193	0	-90
LR16CC-09	LDC	LR20	660791	5501938	1355	124	0	-90
LR16CC-10	LDC	LR20	660786	5501941	1355	119	0	-90
LR16CC-11	LDC	LR18	661148	5501150	1487	31	0	-90
LR16CC-12	LDC	LR18	661149	5501155	1486	32	0	-90
LR16CC-13	LDC	LR18	661148	5501160	1486	34	0	-90
LR16CC-14	LDC	LR18	661145	5501149	1486	34	0	-90
LR16CC-15	LDC	LR18	661144	5501152	1486	35	0	-90
LR16CC-16	LDC	LR18	661143	5501157	1486	39	0	-90
LR16CC-17	LDC	LR18	661142	5501160	1486	40	0	-90
LR16CC-18	LDC	LR18	661146	5501155	1486	35	0	-90
LR16CC-19	LDC	LR18	661145	5501158	1486	36	0	-90
LR16CC-30	LDC	LR11	661410	5502422	1434	54	0	-90
LR16CC-31	LDC	LR11	661412	5502430	1434	54	0	-90
LR16CC-32	LDC	LR10	661212	5502219	1404	191	0	-90
LR16CC-33	LDC	LR10	661206	5502211	1404	189	0	-90
LR16CC-34	LDC	LR20	660791	5501941	1355	120	0	-90
LR Total						**2343**		

4 2016 Exploration Work

4.1 Drilling

In May 2016, a 198m vertical reverse circulation pilot drillhole was completed at a new location to identify the depths and thicknesses of seams 10 and 11 for potential core sampling. During June and July a total of 2,145m of large diameter (15cm) core drilling was completed.

Two drilling contractors were used during the course of the program: Good Earth Drilling Services Ltd. and Foraco International SA.
Good Earth Drilling Services Ltd. mobilized to the site on May 24 and completed the reverse circulation (4.5”/11.3cm) pilot hole by May 27. The drill crews returned to the site on June 14 and completed 10 large diameter core holes totaling 1248m by June 20.

Foraco International SA mobilized to the site on June 14 and completed 14 large diameter core holes totaling 1711m. Foraco completed their drilling and mobilized off-site by July 10.

All 2016 drill holes were cased with welded-joint steel casing. The casing was generally left in the holes and the holes left open. In some locations the casing was removed and the holes back-filled according to Mines Act regulations and mineral exploration best practice. Artesian-flowing holes were also plugged and sealed according to Mines Act regulations and mineral exploration best practice.

4.2 Geophysical Logging

As per industry standard, all drill holes were geophysically logged. The geophysical contractor was Century Wireline Services, based in Red Deer, Alberta.

All open holes were logged with a gamma/neutron/deviation tool (#9058) and with a gamma/density/resistivity/caliper tool (#9239). Century has provided .las and .tif files of all geophysical logs.

All holes were logged within a few days of drilling. Several of the holes for Seam 10 were blocked within the coal seam and only partial logs were obtained.

In general, the quality of the data was found to be good.

All of the 2016 geophysical logs are included in Appendix A.

4.3 Surveying

CIMA Geomatics conducted a survey of drillhole locations for CanAus Coal Limited. Align Surveys was subcontracted to perform the field survey on site.

A static GPS survey was performed from the Priddis Canadian Active Control System monument PRDS CACS-GSD 756047 to several spikes that were placed on site. These placed spikes were used as local control benchmarks for the survey. Survey point 17 is one of these local control benchmarks and was used for the RTK survey of the drillhole locations. As an additional check for positional accuracy, a Precise Point Position (PPP) was processed for survey point 17 from the GPS data logged at that position.

The results of the PPP matched with the static survey results from PRDS CACS-GSD 756047 within 0.03m horizontally and 0.04m in elevation. The survey was performed in NAD 83 (CSRS) datum and the coordinates produced are UTM Zone 11 North. The Vertical Datum Is CGVD28 and elevations are orthometric heights. The geoid model used was GSD95.

The drillhole locations were surveyed in relation to survey point 17 (located along Corbin Road). Measurements were made to the approximate center of the drill holes at the surface entry points. Based on the terrain conditions and the survey methodology, the estimated positional accuracy of the drillhole surface locations is 0.20m in horizontal and 0.26m in vertical.

The locations of drillholes are shown in Table 3.3.1.

4.4 Sampling and Analysis

4.4.1 Large Diameter Core Sampling

Twenty-five large diameter (15cm) core (LDC) drill holes were completed at four locations to collect samples of Seams 10, 11, 18 and 20 for pilot scale wash and carbonization testing. Approximately 6620kg (wet) of coal was collected in total (Table 4.4.1). The core was logged and sampled on-site during drilling. The samples were sealed in heavy gauge plastic bags and immediately stored in an on-site refrigerated container which was subsequently shipped to Hazen Research Inc. in Golden, Colorado for pilot scale washing. Hazen Research completed the washing from July to September 2016, with sub-samples from each stage of the wash sent to Birtley Labs in Calgary, Alberta for coal quality analysis (details in Appendix C). Sub-samples from the Birtley samples were sent to Pearson Petrography in Victoria, British Columbia for petrographic analysis. The bulk of the resultant wash products were blended and shipped from Hazen Research to Canmet Energy in Ottawa, Ontario, with smaller blended product samples flown to ALS Ipswich in Australia in October for carbonization testing. Analytical results from Birtley Labs and Pearson Petrography are shown in Appendix D.

Table 4.4.1 Sampling Summary

Property	Seam	# Holes	Metres	Coal (kg)	Coal (m)
Loop Ridge	LR10 pilot	1	198	n/a	n/a
	LR10	6	1146	3118	139
	LR11	6	322	1174	55
	LR18	9	314	1175	49
	LR20	3	363	1153	52
	Totals	**25**	**2343**	**6620**	**295**

5 Geology

5.1 Regional Structure

The East Kootenay coalfields lie in the Front Ranges of the Rocky Mountains which are characterized by north to northwest trending concentric folds and west dipping thrust faults. Tertiary normal faults, some of which are listric and probably occupy earlier thrust surfaces, are also a major feature.

The Crowsnest coalfield is a complex synclinorium in the Lewis thrust sheet. The major compressional features of the basin are the synclines linked en echelon by low-amplitude anticlines. A series of west dipping thrust faults dominate the structure of the north half of the basin. The major extensional feature is the Erickson fault system, which juxtaposes Mississippian limestone and the Kootenay Group. The fault has a minimum, west side down, displacement of 1,200m.

5.2 Stratigraphy

The Jurassic-Cretaceous Kootenay Group occupies part of a northwest trending belt of predominantly non-marine rocks comprising part of the Rocky Mountain Foothills and Front Ranges of southwestern Alberta and southeastern British Columbia. The Kootenay Group extends from just north of the United States border in the south to the North Saskatchewan River in the north (Gibson, 1985).

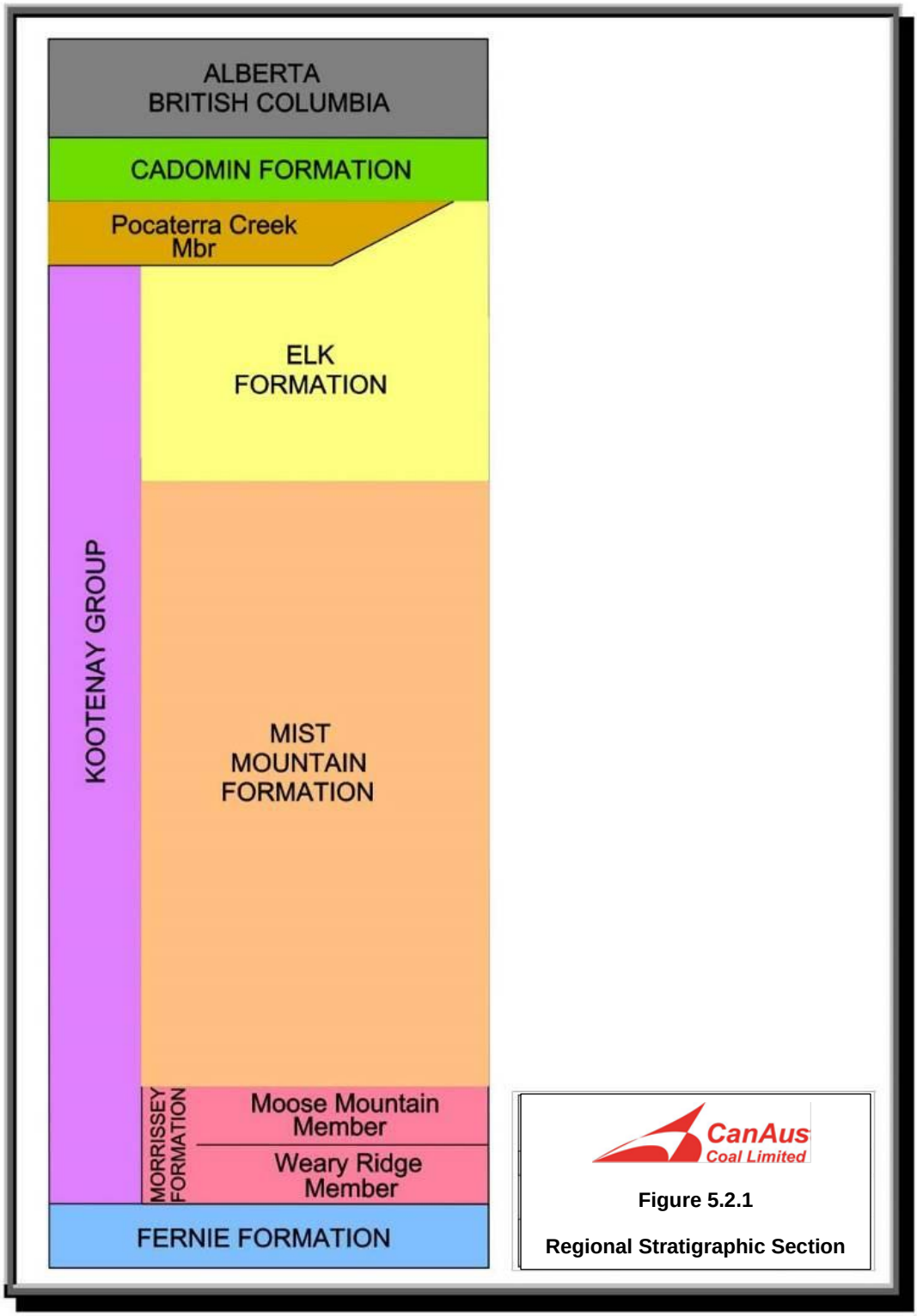
The Kootenay Group of the Rocky Mountain Foothills and Front Ranges encompasses the stratigraphic interval between the Jurassic Fernie Group below and the Lower Cretaceous Blairmore Group above (Gibson, 1985).

Three formations are recognized within the Kootenay Group, including the basal sandstone, Morrissey Formation, the coal-bearing Mist Mountain Formation, and the upper Elk Formation, (Figure 5.2.1).

Knowledge and definition of the stratigraphic column is required prior to any correlation and structural work. Figure 5.3.1 has been compiled from the drilling and interpretation of the geology to date at Loop Ridge. The section shows 20 coal seams within a section that is slightly more than 500m thick. The Moose Mountain Member of the basal Morrissey Formation has been identified in 68 of the holes drilled to date. On the east side of the Loop Ridge property, 22 drillholes have located limestone below the coal measures. The limestone represents the footwall side of the major, regional, Erickson normal fault which juxtaposes Mississippian limestone and the Kootenay Group. The fault has a minimum, west side down, displacement of 1,200m.

Drilling on Loop Ridge has identified 20 coal seams with an average cumulative thickness of 70m in a 504m section, with the coal representing approximately 14% of the section, generally typical for the area. Table 5.3.1 lists the seams, the number of intercepts, as well as the minimum, maximum, and mean thickness of each. Artificial minimum seam thicknesses of 0.01-0.02m were applied for modelling purposes only and were not used for the calculation of mean thicknesses.

Figure 5.2.1 Regional Stratigraphic Section



5.3 Geological Overview

Drilling on the Loop Ridge property has occurred principally within the Mist Mountain Formation. Older rocks of the underlying Morrissey Formation have been intersected in 68 of the drillholes.

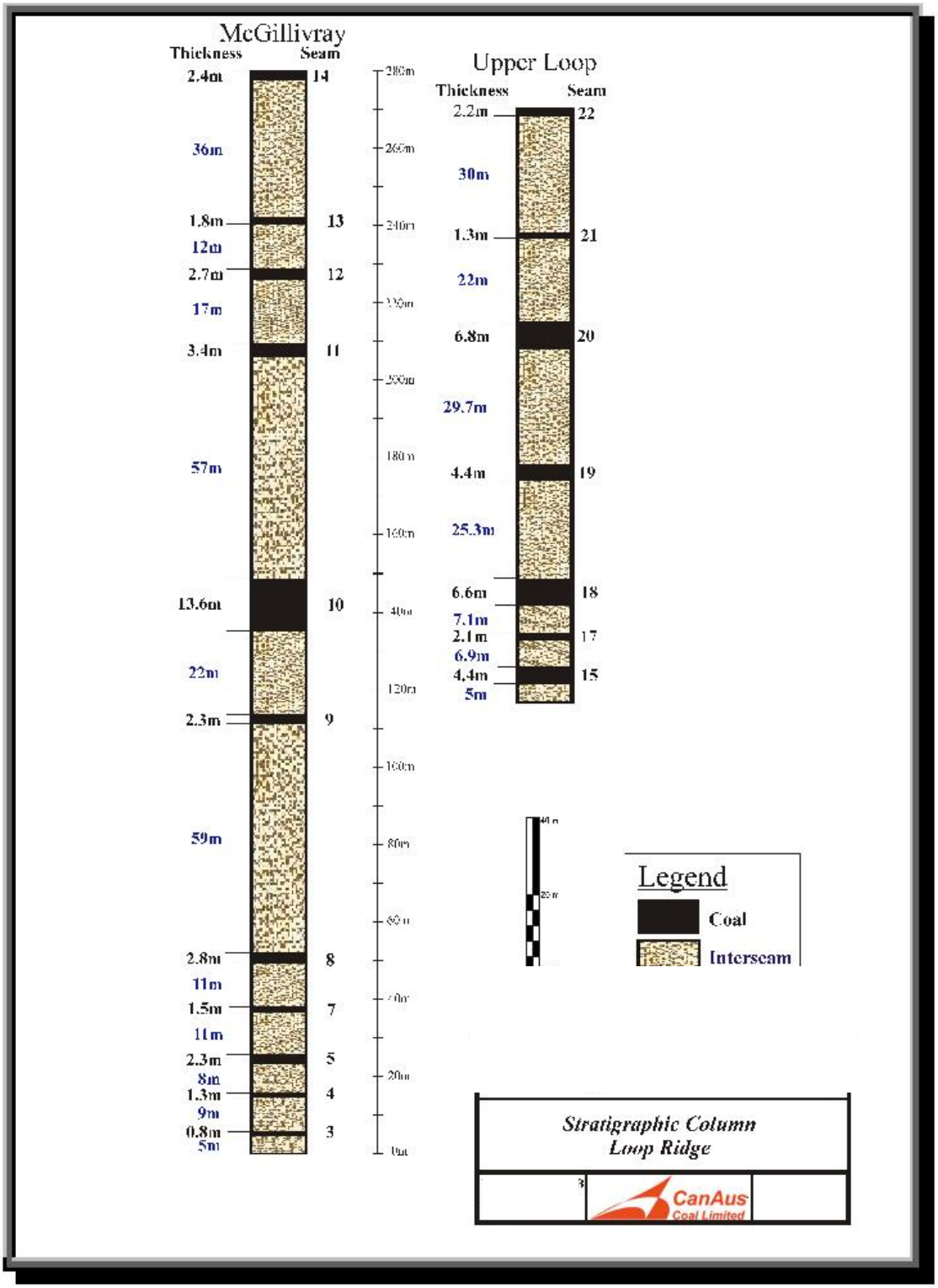
Drilling on the Loop Ridge property has tested the coal-bearing section the Mist Mountain Formation. Twenty major coal seams from Seams 3 to 22, are present and several subsidiary seams have been identified. Seam nomenclature is consistent with that of other mines in the area with Seam 20 being the uppermost major seam, and Seam 10, the lowest major seam present. Work in 2013 and 2014 allowed the average thicknesses of the coal seams to be calculated over the entire deposit (Table 5.3.1). Artificial minimum seam thicknesses of 0.01-0.02m were applied for modelling purposes only.

Overburden cover is variable, ranging from a few centimetres thick in the southern area of the known deposit (Upper Loop) to over 50 metres in the northern area (McGillivray). This area is covered in a thick layer of well-sorted river channel gravels.

Table 5.3.1 Loop Ridge Seam Data

Seam	Intercepts	Minimum (m)	Maximum (m)	Average (m)
22	1			2.17
21	21	0.02	3.65	0.73
20	49	0.02	22.52	6.23
19	72	0.02	18.74	4.11
19L	13	0.02	5.89	0.78
18	89	0.02	34.25	6.30
17	58	0.02	9.05	1.72
15	87	0.02	14.82	4.27
14	8	0.02	6.85	1.52
13	34	0.02	5.63	1.18
12	59	0.02	10.62	1.73
11	92	0.02	14.02	2.51
10	95	0.02	59.86	13.06
9	35	0.02	5.21	1.19
8	11	0.01	7.99	2.29
7	7	0.05	3.81	1.48
5	3	0.74	3.42	2.31
4	2	1.28	1.37	1.33
3	1	0.81	0.81	0.81

Figure 5.3.1 Typical Stratigraphic Section



7 Reclamation

CanAus policy is to keep exploration disturbance to the smallest practical area. Natural soil profiles are maintained whenever possible to enhance natural regeneration and to control erosion-causing runoff. Drill sites are recontoured and revegetated as soon as work is completed and deemed not required for future use. In addition, all exploration areas are left in a clean, safe and stable condition at the end of each field season.

Primary access in 2016 was via existing exploration and forestry trails, as described in Section 2.3. During pad construction, woody debris was buried or stacked to the greatest extent possible, and shoulder areas were contoured to a naturalistic form. Disturbed areas were seeded and fertilized with the appropriate mixtures. Drainage is controlled by ditches and culverts, with some supplemental cross-ditching.

One new drill pad was constructed on an existing trail in a clear cut area. The drill pads were left as-is, as it is expected that they will be reused in 2017. Steeper trails were temporarily deactivated with cross-ditches.

8 Expenditures

Actual expenditure for this work during the period May through December, 2016 was $1,347,369. Major expense items are shown in Table 8.1.

Table 8.1 Loop Ridge Expenditures

Drilling	$ 630,652
Technical Services	$ 112,046
Analytical	$410,134
Heavy Equipment	$13,361
Safety and First Aid	$33,320
Licenses and Permits	$43,725
Personnel	$30,940
Miscellaneous	$73,191
Total	**$1,347,369**

Details are presented in Appendix F.

9 Conclusions

The 2016 Loop Ridge exploration program accomplished the goal of collecting enough coal samples of Seams 10, 11, 18 and 20 to conduct full coal quality analysis and carbonization testing on the individual seams and potential blends.

Approximately 6,620kg of coal was collected from 25 large diameter (15cm) core drillholes. The coal was processed in a pilot scale wash facility and the clean coal was analyzed for coking coal properties and carbonization qualities. The results for coking coal properties indicate the potential for a hard coking coal product similar to other coals of similar rank produced in the Elk Valley region. Further sampling of the primary seams using 15cm core in new locations is recommended to improve the coal quality understanding across the deposit.

10 References

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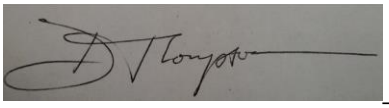
11 Statement of Qualifications

I, David A. Thompson, BSc, P.Geo., of 14-2656 Morningstar Crescent, Vancouver BC V5S 4P4, do hereby certify that:

1. I am Chief Geologist for CanAus Coal Ltd.
2. I graduated with a B.Sc. from the University of BC in 1986.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (Member ID #150701) and the Association of Professional Engineers and Geoscientists of Alberta (Member ID #184563).
4. I have worked as a geologist for a total of sixteen years since my graduation from university.
5. My past experience includes eleven years working in coal exploration and mining in British Columbia and Alberta. I have managed large scale exploration programs for the definition and resource development of several complex metallurgical coal deposits up to and including the feasibility stage and mine development of those deposits. I was also the Chief Geologist in the production department at Peace River Coal's Trend Mine in Tumbler Ridge BC.
6. I am responsible for the entire Assessment Report titled "Assessment Report: 2016 Loop Ridge Exploration Program" dated 31 January, 2017.
7. I was on site for the entirety of the 2016 exploration program.
8. To the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to conform to the Mineral Tenure Act Regulations of British Columbia.
9. I consent to the filing of the Assessment Report with the British Columbia Ministry of Energy and Mines Geological Survey Branch.

Dated this 31st day of January, 2017.



Dave Thompson, P.Geo.
CanAus Coal Ltd.

Appendices

Appendix A Geophysical Logs – (in .ZIP file attached)

Appendix B Drill Core Logs – (in .ZIP file attached)

Appendix C Sample Summary

Appendix D Sample Analytical Results and Certificates – (in .ZIP file attached)

Appendix E Analytical and Processing Guidelines

Appendix F Statement of Costs

CanAus Coal Limited

Lithological Core Logging Codes and Abbreviations

Definition Sheet

Code/Abbreviation	Definition
CGL	Conglomerate
SST	Sandstone
SLT	Siltstone
CLY	Claystone
SHL	Shale
MST/MS	Mudstone
CMST/CM	Carbonaceous mudstone
BC/BN	Boney Coal
SC	Shaley coal
CO/C	Coal
LMST	Limestone
OVB	Overburden
CL	Core loss
PY	Pyrite
CARB	Carbonates
VNLTS	Veinlets
BCN/CN	Bedding to core normal
TCA	To core axis
HW	Hanging wall
FW	Foot wall
EOH	End of hole

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-01**																	
Northing:	5502422.000			**UTM System:**	NAD 83			**Hole Orientation:**		Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9	
Easting:	**661412**							**Hole Type:**		6 inch/15cm core			**Seam:**	**11.00**		**Core point:**	**24m**	
Elevation:	**1433**												**Total Depth:**	**50**				
								Logged by:		Malcolm/Abby			**Date:**	**June 15/16th 2016**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	24.00	25.50		0.76											SLT/MS			Very fine grained. Grey, grades into MS. Calcite veinlets through with trace PY. Very fractured, mechanically (broken out of shoe) and fractured zones. Core loss.
2	25.50	27.00		1.47														
	25.50	25.90		0.40											MS		**Y**	Light grey/brown, heavily fractured, minor HCL reaction. Silty at top of unit.
	25.90	26.97		1.07											MS		Y	Very fractured, common calcite veinlets throughout. Light grey/brown, rare clay in middle of unit.
3	27.00	28.00		0.95														
	27.00	27.12		0.12											MS		Y	As above, very fractured, fractures on bedding. Coaly.
	27.12	27.37		0.25		26.60	26.85	0.25	0.25	100.00		R341314	17		CO	11	N	Vitrinite bands, blocky, clean.
	27.37	27.95		0.58		26.85	27.43	0.58	0.58	100.00		R341314	17	Intact	CO	11	N	Coal harder than above, 1cm parting at top of unit removed from sample, blocky at top, clean.
4	28.00	30.00		1.95														
	28.00	29.00		1.00		27.43	28.43	1.00	1.00	100.00		R341315	21.2		CO	11	N	Blocky with MS partings of around 2cm, soft. Sheared.
	29.00	29.95		0.95		28.43	29.38	0.95	0.95	100.00		R341316	21	Intact	CO	11	N	Harder than ablove, dull, soft, muddy with no distinct bands, brighter towards bottom.
5	30.00	32.00		1.97														
	30.00	30.40		0.40		29.38	29.78	0.40	0.40	100.00		R341317	22		CO	11	Y	Samllamount of acid reaction, mostly intact core, dull with some bright bands, more dull towards bottom.
	30.40	31.00		0.60		29.78	30.38	0.60	0.60	100.00		R341317	22	Intact	CO	11	Y	Dull, PY streaks thoughout, occasional soft mud lenses.
	31.00	31.97		0.97		30.38	31.35	0.97	0.97	100.00		R341318	16.8		CO	11	Y	As above, grading into mudstone at bottom.
6	32.00	34.00		1.98														
	32.00	33.36		1.36		31.35	32.71	1.36							MS		Y	Carbonaceous towards bottom of unit, sharp wavy contact with coal, fractured throughout. Calcite veinlets.
	33.36	33.98		0.62		32.71	33.33	0.62	0.62	100.00		R341319	17.4		CO		N	Soft, occasional bright bands otherwise dull, sheared.
7	34.00	36.00		1.60														Possible core loss at bottom
	34.00	34.38		0.38		33.33	33.71	0.38	0.38	100.00		R341319	17.4	Broken	CO		N	Sheared, core quite broken, blocky.
	34.38	35.10		0.72		33.71	34.43	0.72	0.72	100.00		R341320	11.2	Intact	CO		N	Sheare more towards base, blocky.
	35.10	35.60		0.50											MS			slickensides on frature surfaces, carb. Mud. near top grading into hard mudstone.
8	36.00	38.00		2.00														
	36.00	36.35		0.35										Intact	MS		Y	Core becomes more fractured towards bottom, light brown.
	36.35	37.15		0.80											MS		Y	Occasional calcite veinlets, very sheared, slickensides on fracture surfaces, occasioanl coal stringers.
	37.15	37.55		0.40										Broken	MS			As above.
	37.55	38.00		0.45											MS			Occasional calcite cleats, softer at top of unit, slickensided fracture surfaces.

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
9	38.00	40.00		1.85														
	38.00	38.97		0.97											MS		Y	Coal lenses at top of unit, sheared with slickensides, rare calcite cleats, grades into SLT.
	38.97	39.85		0.88										Intact	SLT		Y	sheared towards base, minor calcite veinlets middle of unit.
10	40.00	42.00		2.25														
	40.00	40.75		0.75											SLT		Y	As above.
	40.75	41.20		0.45											MS		N	Very sheared, slickensided surfaces.
	41.20	42.25		1.05										Intact	MS		Y	Sheared, slickensided fractures, calcite veinlets.
11	42.00	44.00		1.92														
	42.00	42.10		0.10											MS		Y	As above. Slickensided fractured contact with unit below. Calcite veinlets.
	42.10	42.30		0.20											CO		N	Stringer. Carb mud at top, soft, sheared.
	42.30	43.92		1.62											MS		Y	Calcite veinlets near bottom, sheared, more so towards the base.
12	44.00	46.00		2.03														
	44.00	44.80		0.80										Intact	MS		Y	Sheared at top, otherwise in tact. Carbonaceous and coaly at bottom of unit.
	44.80	45.30		0.50											MS		Y	Very sheared with fractures throughout.
	45.30	46.03		0.73										Intact	MS		Y	Calcite veins (1-4mm) near top, Sheared but core intact.
13	46.00	48.00		2.00														
	46.00	47.20		1.20										Intact	MS		Y	Sheared but core intact.
	47.20	47.50		0.30										Broken	MS		Y	Very sheared, occasioanl small coal stringers, carbonaceous in part.
	47.50	48.00		0.50										Intact	SLT		N	Hard.
14	48.00	50.00		2.00														
	48.00	49.43		1.43											SLT		Y	Abundant calcite veins throughout, sheared.
	49.43	50.00		0.57											SLT			Very sheared, slickensided on fracture surfaces.
																		EOH = 50m

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-02**																
Northing:	5502422.000			**UTM System:**	NAD 83			**Hole Orientation:**		Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9
Easting:	**661412**							**Hole Type:**		6 inch/15cm core			**Seam:**	**11.00**		**Core point:**	**24**
Elevation:	**1433**												**Total Depth:**	**50**			
								Logged by:		ML/AC			**Date:**	**June 17 2016**			

	Driller's Depths					Corrected Depths											
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	24.00	26.00		1.10														
	24.00	25.10		1.10											MS		Y	Very fractured and broken, brown, silty, calcite on fractures, trace PY. Mechanically broken at shoe.
				0.90											Loss			Core loss.
2	26.00	28.00		1.63														
	26.00	26.03		0.03										Broken	MS		N	Very broken at top, a few broken pieces.
	26.03	26.23		0.20		26.95	27.10	0.15	0.20	133		R341321	16	Intact	CO	11	N	Bright banding at top of unit.
	26.23	26.93		0.70		27.10	27.50	0.40	0.70	175		R341321		Broken	CO	11	N	Sheared, occasional MS bands (1-2cm) removed from sample.
	26.93	27.66		0.73		27.50	28.13	0.63	0.73	116		R341322	20.8	Intact	CO	11	N	Dull, hard.
3	28.00	30.00		1.98														
	28.00	28.27		0.27		28.13	28.31	0.18	0.27	150		R341322			CO	11	N	As above.
	28.27	29.23		0.96		28.31	29.10	0.79	0.96	122		R341323	23.8	Intact	CO	11	N	dull with some bright bands mostly at top of unit, mud lenses near bottom, some shearing at 45 degrees with slickensided surfaces.
	29.23	29.98		0.75											MS			Calcite veinlets, 2cm muddy coal band in middle becoming more sheared at base.
4	30.00	32.00		2.00														
				0.20										Intact	MS		Y	
				0.30										Intact	MS		Y	Sheared throughout, calcite veinlets in middle.
				0.48										Intact	MS		Y	
				0.38											MS		Y	Very sheared
				0.64										Intact	MS		Y	Sheared at base.
5	32.00	34.00		0.92														Core loss possibly at top.
				0.33											CM		Y	Slickensided at top, core mostly intact, Sulfur streaks.
				0.10											CM		Y	Very sheared
				0.44										intact	CO		N	Bright banding at top, hard softer at top.
				0.15										Broken	MS		N	Hard.
6	34.00	35.50		1.50														
				0.38										Broken	SLT		Y	calcite on fracture surfaces.
				1.22											SLT		Y	Calcite veinlets increasing in abundance towards base, large sheared sections.
7	35.50	37.50		1.87														
				0.79										Broken	SLT		Y	Sheared, slickensided surfaces.
				0.25											SLT		Y	Calcite veinlets, very sheared, fine coaly stringers.
				0.83											SLT		Y	Calcite veinlets throughout, rare fine coal stringer at top. Sheared.
8	37.50	40.00		2.20														0.3m of coal loss at bottom?
				0.22										Broken	CM		N	Coaly

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
				0.64											MS		N	Sheared sections. Carbonaceous at top.
				0.20											CO		N	Mudstone partings, ~2cm in size at bottom and top.
				0.66										Intact	MS		N	Slickensided contact with coal.
				0.20											MS		N	Soft broken core.
				0.30											SLT		Y	Sharp angular contact with unit above, calcite veinlets, hard, light grey, sandy.
9	40.00	42.00		2.08											MS		Y	Silty at top of unit, calcite veinlets.
				1.20											MS		Y	Very sheared, slikensided fractures, CM band middle of unit.
				0.62											SLT		Y	Calcite veinlets, muddy/coaly slickensided sheared zone middle of unit.
				0.26														
10	42.00	44.00		1.62														Core loss in coal possible.
				0.62		41.92	42.54	0.62	0.62	100		R341324	29.2	intact	CO		N	dull at top becoming brighter towards bottom.
				0.52							45				SLT		Y	Calcite veinlets.
				0.62											MS		N	Coal lense at top of unit.
11	44.00	46.00		1.95														
				0.90											MS		Y	Fractured at top, rare calcite veinlets.
				0.33											SLT		Y	Calcite veinlets at top, grades into mudstone.
				0.72											MS		Y	Soft, sheared. Silty at base, small (~2mm) coal stingers.
12	46.00	48.00		2.00														
				1.01											SLT		N	Occasional calcite veinlets. Finer-grained at top of unit.
				0.92											MS		Y	Calcite veins throughout (1-4mm in size), soft, muddy band at top, coaly lenses at base.
				0.07											CM		Y	Coal laminations throughout, up to 1cm thick, soft.
13	48.00	50.00		2.00														
				0.05											MS			Carbonaceous in part.
				1.60										intact	MS			Common calcite veinlets (1-5mm in size), fractured, coal stringers
				0.35											SLT			calcite infilling fractures.

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-03

Northing: 5502422 **Easting:** 661412 **Elevation:** 1433

UTM System: NAD83

Hole Orientation: Vertical

Hole Type: 6 inch/15cm core

Logged by: ML/AC

Property: Loop Ridge **Seam:** 11 **Total Depth:** 58m **Date:** Jun. 17, 2016

Cased to: 9 **Core point:** 24

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	24.00	26.00		1.62											SLT		Y	greyish-brown, silty. Fractured. Calcite filling fractures.
																		24.76-25.15, v. fractured zone. Fault gouge clays.
											45							25.15 - end of the run, distict fractures @ 45 BCN
																		Mechanically broken @ shoe
																		bedding @ 45 BCN (light to dark). V. thin, a little wavy in some places.
2	26.00	28.00		2.00										Intact	SLT			greyish-brown, silty. More competent than previous run.
											45						Y	calcite filling fractures. Fractures 45 BCN
											55							bedding @ 55 BCN, a little wavy.
																		v. fractured zone 26.63-26.72 & 27.7-27.80
3	28.00	29.50		1.53											SLT			"as above"
											60							bedding a little wavy
											55						Y	Calcite filling fractures
																		Fault gouge clays, in fractured zones
4	29.50	31.00		1.03														"as above"
																		v. fractured into pieces
																		calcite filling fractures
																		Core Loss 0.5 m of Coal lost (fell out the bottom of the shoe and down the hole)
5	31.00	33.00		2.20														
	31.00	31.38		0.38		29.87	30.25	0.38	0.38	100		R341325	15.6		SLT/Co			Intermixed. Broken. Co: soft, sheared, mostly dull with some bright bands.
	31.38	31.58		0.20		30.25	30.45	0.20	0.20	100		R341325			Co			Co, "as above"
	31.58	31.77		0.19											Ms			parting
	31.77	32.00		0.23		31.25	31.52	0.23	0.23	100		R341325			Co			Dull, uniform. Soft, sheared. Some bright bands > 5%
											45							Fractures 45 BCN
	32.00	33.00		1.20		31.52	32.52	1.00	1.20	120		R341326	24.6		Co			"as above", some mudclasts
6	33.00	34.00		1.00														
	33.00	33.75		0.75		32.52	33.27	0.75	0.75	100		R341327	21.6		Co/Ms			Interbedded. Co, dull, soft, sheared.
	33.75	33.85		0.10											Co/Ms			v. broken mostly MS
	33.85	34.00		0.15											SLT		Y	greyish, calcite filling fractures
																		v. difficult to sample. Only obvious partings excluded
7	34.00	36.00		1.95											SLT		Y	greyish-brown, silty. Calcite filling fractures.
											80-90							~vertical wavy bedding
																		v. fractured zones throughout with fault gouge clays
8	36.00	38.00		1.95											SLT		Y	"as above"
																		zoomed pictures show ~ vertical wavy bedding
9	38.00	40.00		2.10											SLT			"as previous run"
											70							fractured steep;y
																	Y	calcite filling fractures
																		v. broken at top of run 38-38.2
10	40.00	42.00		2.00														broken core at top, calcite infilling fractures
	40.00	40.50		0.50											SLT		Y	as above

	40.50	40.95	0.45														
														MS		N	very fractured, grades into coal, sheared
	40.95	41.15	1.20	40.00	41.00	1.00	1.20	120		R341327				Co		N	carbonaceous mud @ top, dirty
	41.15	42.00	0.85	41.00	41.85	0.85	0.85	100		R341328	15			Co		N	dirty at top, hard, dull, brighter @ base
11	42.00	44.00	2.00														
	42.00	43.00	1.00	41.85	42.85	1.00	1.00	100		R341329	22.2			Co		N	dull, hard, muddy, occ. Bright banding ~10%
	43.00	44.00	1.00	42.85	43.85	1.00	1.00	100		R341330	22			Co		N	dull, hard, mudstone partings removed @ base
12	44.00	46.00	2.00														
	44.00	45.25	1.25											Cm		N	hard, softer & coaly mid. Unit
	45.25	45.37	0.12	44.35	44.47	0.12	0.12	100		R341331	28.4			Co		N	soft, bright banding
	45.37	45.67	0.30	44.77	45.07	0.30	0.30	100						Cm		N	hard @ top becoming softer & coaly towards bottom
	45.67	46.00	0.33	45.07	45.28	0.21	0.30	143		R341331				Co		N	soft, sheared, v. muddy throughout with partings (removed in sample)
13	46.00	48.00	2.05														
	46.00	46.20	0.20	45.28	45.48	0.20	0.20	100		R341331				Co			dull, hard
	46.20	46.33	0.13											Cm			
	46.33	47.22	0.89	45.61	46.42	0.89	0.89	100		R341331				Co			dull, hard, muddy throughout, occ. Bright bands
	47.22	47.49	0.27	46.42	46.69	0.27	0.27	100		R341332	20.8			Co			hard, muddy @ top sheared
	47.49	47.87	0.38	46.69	47.04	0.38	0.38	100		R341332				Co			dull, hard, v. muddy throughout partings removed
	47.87	48.05	0.18	47.07	47.25	0.18	0.18	100		R341332				Co			soft, sheared
14	48.00	50.00	1.92														
	48.00	49.00	1.00	47.25	48.25	1.00	1.00	100		R341333	17.4			Co		N	soft, sheared, muddy @ middle.
																	partings removed from sample
																	bright bands throughtout
	49.00	49.92	0.92											SLT		Y	Calcite veinlets @ bottom, sharp contact with Co above
15	50.00	52.00	2.02														
	50.00	51.15	1.15											SLT		N	Intact, hard, sheared @ bottom
	51.15	51.78	0.63											Ms		Y	calcite veins @ top, carbonaceous towards bottom
	51.78	52.20	0.24											Cm		N	sheared, soft
16	52.00	54.00	1.98														
	52.00	52.50	0.50											Ms		Y	Fractured, occ. Calcite in fractures
	52.50	53.22	0.72											Ms		Y	v. bottom core w sheared sections, coaly middle of the unit
	53.22	53.52	0.30											Ms		N	fractured, esp. @ bottom
	53.52	53.78	0.26											SLT		N	light grey/bottom, hard, intact slickenslides @ bottom
17	54.00	56.00	1.87														
	54.00	54.36	0.36											Ms		N	some SLT @ top
	54.36	55.28	0.92											SLT		Y	v. fractured @ top occ. Calcite veinlets
	55.28	55.50	0.23											Ms		N	broken core, fractured throughout
	55.50	55.87	0.36											SLT		Y	calcite veinlet & coal lense infilling fracuture @ 45, possibly beding ?
18	56.00	58.00	2.10											SLT		Y	largely intact, calcite veinlets throughout with some fractures also infilled
																	TD: 58

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-04

Northing: 5502422 **Easting:** 661412 **Elevation:** 1433m

UTM System: Nad83

Hole Orientation: Vertical

Hole Type: 6 inch/15cm core

Logged by: ML

Property: Loop Ridge **Seam:** 11.00 **Total Depth:** 56m **Date:** Jun 18-19, 2016

Cased to: 9 **Core point:** 26

	Driller's Depths					Corrected Depths											
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	26.00	28.00		2.00											SLT			greyish, silty. V. fractured zones @ 26.2-26.25, 27.6-27.75. Fault gouge clays. Mechanically broken at shoe
																	Y	Fractures filled with calcite. Trace py.
																		Vugs of calcite up to 3cm
																		Slickenslides present on some sheared surfaces
2	28.00	30.00		1.60														
	28.00	29.55		1.55											SLT			as above. V. broken into large blocks at top. (mechanical)
																		bedding wavy, cross-stratification
																	Y	Fractures filled with calcite. Trace py. Some fault gouge clays & slickenslides surfaces
	29.55	29.60		0.05		29.20	29.25	0.05							Co/SLT			intermixed. Co extremely fine-grained 0.4m loss of coal.
																		*seen on prev. hole. No sample taken. To hard to separate Co/SLT
3	30.00	32.00		1.90														
	30.00	31.00		1.00		29.25	30.25	1.00	1.00	100		R341334	21.4		Co			Uniform. Good competence. Dull with some bright bands of hard and light Co
																		soft, sheared, breaks @ 45 BCN
																		few v. small mudclasts > 1cm
	31.00	31.80		0.80		30.25	31.05	0.80	0.80	100		R341335	27.2		Co			as above
	31.80	31.90		0.10		31.05	31.15	0.10	0.10	100		R341335			Co			v. broken, intermixed, last 5cm Ms (removed from sample)
4	32.00	34.00		1.80														
	32.00	32.20		0.20		31.15	31.35	0.20	0.20	100					Ms			v. broken into large blocks. Brown, grades into Co
	32.20	32.40		0.20		31.35	31.55	0.20	0.20	100	30	R341335			Co			Dull, hard, light, uniform. No bright bands. Fractures 30 BCN
	32.40	33.05		0.65		31.55	32.20	0.65	0.65	100		R341336	24.2		Co			as above
	33.05	33.40		0.35		32.20	32.55	0.35	0.35	100		R341336			Co/Ms			intermixed. V. dirty. Coal fine grained, soft, sheared. Bright bamding
	33.40	33.80		0.40		32.55	32.95	0.40	0.40	100		R341337	24.8		Co/Ms			mudclasts 1-5cm thick. Obvious partings removed
5	34.00	36.00		1.90														
	34.00	34.85		0.85											Ms		Y	brownish-grey. V. broken No contact seen with coal. Grades into SLT
	34.85	35.90		1.05							80				SLT			Greyish- brown. Bedding seen ~ vertical. Wavy with some cross stratification
																	Y	calcite filling fractures
																		Fractures go along with bedding ~ vertical.
																		v. broken last 17cm (broken in shoe)
6	36.00	38.00		1.40														core loss @ TOP OF HOLE
	36.00	36.36		0.36											SHL			v. broken into platy shale
																		brown-grey grades into v. broken mud/clay
	36.36	36.60		0.24											Ms			v. broken, soft, brown-grey
	36.60	36.80		0.20		36.50	36.70	0.20	0.20	100		R341337			Co			stringer. Grades Ms to Co
																		v. soft, sheared, broken
											80							sharp contact with SLT @ 80 BCN
																		*looks like less Co in picture because of orientation of core.
	36.80	37.40		0.60							70				SLT			grey-brown. Silty. Calcite filling fractures
7	38.00	40.00		1.30														
	38.00	38.20		0.20											SHL			grey-brown. V. broken. Silty. 0.7m *core loss. Breaks easily, core bit cant grab
	38.20	38.90		0.70							45				SLT			sharp contact @ 45 BCN. Fault gouge
											90							vertical bedding. V. wavy with some cross stratification
	38.90	39.30		0.40											SLT/SHL			broken, fractures. Vertical, shaley. * core loss @ top of run, contact not seen

8	40.00	42.00		1.75														
	40.00	41.00		1.00		40.00	41.00	1.00	1.00	100	70	R341338	24		Co			Dull, soft, sheared. Uniform. Breaks 70 BCN. Competent
	41.00	41.75		0.75		41.00	41.75	0.75	0.75	100		R341339	25.8		Co			as above. Broken at shoe
9	42.00	44.00		1.95														
	42.00	42.25		0.25		41.75	42.00	0.25	0.25	100		R341339			Co			as above
	42.25	43.16		0.91		42.00	42.91	0.91	0.91	100		R341340	22.8		Co			0.25-0.35, intermixed zone with Ms, v. broken. Co "as above"
	43.16	43.95		0.79											Cm			soft, sheared, streaks brown. Some v. soft fine grained intermixed coal mostly carboneous material.
																		not sampled
10	44.00	46.00		0.90														*core barrel tape broke off, significant core come our. Driller thinks Co. Was not looking at drill cuttings
																		Shoe broken
	44.00	44.60		0.60											Cm			as above
	44.60	44.90		0.30											SLT			as above
11	46.00	48.00		1.84														
	46.00	46.45		0.45							45				Ms			v. broken, grades into Co. contact seen @ 45 BCN
	46.45	47.45		1.00		46.30	47.30	1.00	1.00	100	50	R341341	24.4		Co			Dull, uniform, competent, soft, sheared, breaks easily
	47.45	47.84		0.39		47.30	47.69	0.39	0.39	100		R341342			Co			as above. Broken at shoe
12	48.00	50.00		2.00														
	48.00	48.59		0.59		47.69	48.28	0.59	0.59	100	45	R341342	23		Co			Dull, uniform, competent. Soft, sheared. A few mudclasts > 1cm
	48.59	49.59		1.00		48.28	49.28	1.00	1.00	100	45	R341343	25		Co			as above. A few bright bands throughout
	49.59	50.00		0.41		49.28	49.69	0.41	0.41	100	45	R341344			Co			as above
13	50.00	52.00		1.89														
	50.00	50.20		0.20		49.69	49.89	0.20	0.20	100		R341344	13		Co			suspective core loss in Co ~ 11cm
																		v. broken. Soft, sheared. Mostly dull with a few bright chunks
																		grades into SLT, contant not seen.
	50.20	51.89		1.69											SLT			v. fractured xone: 50.2-50.4 & 51.2-51.4
											45							bedding @ 45BCN. Wavy with cross stratification
																		calcite filling fractures. Broken @ shoe
14	52.00	54.00		1.86														
	52.00	52.62		0.62							45				SLT			grey-brown silty
	52.62	53.13		0.51											Cm			sharp contact with SLT @ 45BCN
																		coal stringer ~ 1 cm thick @ 52.70
											45							sharp contact with Ms @ 45BCN
	53.13	53.57		0.49							40				Ms			brown, fractures 40-60BCN
											60						Y	calcite filling fractures
	53.57	53.68		0.11											Cm			v. broken, fractured. Coal stringer
	53.68	53.86		0.18											MS			sharp contact with Ms @ 45 BCN
																		as above. v broken at shoe
15	54.00	56.00		2.00														
	54.00	55.40		0.40											Ms			brown. Hard. Competent. Fractures with slickenslide surfaces
	55.40	55.43		0.03							65				Co			stringer. Sharp contact @ 65 BCN
	55.43	56.00		0.57											Ms			as above broken at shoe
																		EOH 56

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-05

Northing: 5502208 **UTM System:** NAD83 **Hole Orientation:** Vertical **Property:** Loop Ridge **Cased to:** 9

Easting: 661202 **Hole Type:** 6 inch/15cm core **Seam:** 11,10 **Core point:** 84.6, 189

Elevation: 1411 **Total Depth:** 189.4

Logged by: DT,ML,AC **Date:** 2016-06-22

	Driller's Depths					Corrected Depths											
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test Fizz	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
Hammered	**82.30**	**84.60**				82.30	84.60											
1	84.60	86.00	1.40	1.15	82%	84.60	86.00	1.40	1.15	82%								
	84.60	84.75	0.15	0.15	100%	84.60	84.75	0.15	0.15	100%				B	C	11	N	shiny sheared flakes, bright reflectance
	84.75	85.75	1.00	1.00	100%	84.75	85.75	1.00	1.00	100%	all			I	Ms		N	highly disturbed bedding, clear fault zone. Fractured, abundant coaly surfaces, slickenslides
	85.75	86.00	0.25	0.00	0%	85.75	86.00	0.25	0.00	0%					LO			
2	86.00	87.40	1.40	1.40	100%													Lost entire run *fault zone*
	86.00	87.40	1.40	0.00	0%	86.00	87.40	1.40	0.00	0%					LO			
3	87.40	88.00	0.60	0.30	50%	87.40	88.00	0.60	0.30	50%								
	87.40	87.70	0.30	0.30	100%	87.40	87.70	0.30	0.30	100%				B	SST			mostly broken pieces of SST with a few pieces of clay, some fault gouge in cuttings
	87.70	88.00	0.30	0.00	0%	87.70	88.00	0.30	0.00	0%					LO			
																		*stopped coring @ 88.5m due to broken/faulted ground, continue hammering to 149m
Hammered	148.70	149.00				147.80	149.00	1.20		0%								
4	149.00	151.00	2.00	1.85	93%													*tagged coal seam @ 148.7m
	149.00	150.00	1.00	1.00	100%	149.00	150.00	1.00	1.00	100%		R341416	16.6		Co	10		149-149.52: brittle, friable zone. Pieces of coal 1-5 cm in size
																		Dull, hard, shiny sheared surfaces. ~10% brightness. W slickenslides
																		relatively uniform w mudclasts not seen
	150.00	150.85	0.85	0.85	100%	150.00	150.85	0.85	0.85	100%		R341417	20.2		Co	"		as above, broken at bottom of run (shoe)
	150.85	151.00	0.15	0.00	0%	150.85	151.00	0.15	0.00	0%					LO			
5	151.00	153.40	2.40	1.23	51%													
	151.00	151.15	0.15	0.15	100%	151.00	151.15	0.15	0.15	100%		R341417			Co	"		as above. V broken to small pieces ~1cm
	151.15	152.23	1.08	1.08	100%	151.15	152.23	1.08	1.08	100%	50	R341418	20		Co/MS	"	Y	as above. Dirty contact @ 50BCN w Ms
																		MS brown, brown streak. Top 34 cm. v. broken soft and intermixed w Co and carb. Material to bottom of run more intact. Broken @ shoe. Calcite infilling
	152.23	153.40	1.17	0.00	0%	152.23	153.40	1.17	0.00	0%					LO			
6	153.40	154.00	0.60	0.30	50%													*felt loose in bit, while drilling, short run taken*
	153.40	153.70	0.30	0.30	100%	153.40	153.70	0.30	0.30	100%				I	Ms		Y	brown-grey, brown streak, Intact. Calcite Infilling
	153.70	154.00	0.30	0.00	0%	153.70	154.00	0.30	0.00	0%					LO			
7	154.00	156.00	2.00	2.20	110%													
	154.00	155.00	1.00	1.00	100%	154.00	154.80	0.80	1.00	125%		R341419	17.6		Co	"		soft sheared, v. broken, bright, w shiny slickenslide faces, soupy Co w water, gas bubbling.
																		Co expanded
	155.00	155.80	0.80	1.00	125%	154.80	155.40	0.60	1.00	167%		R341420	14		Co	"		as above, sharp contact ~20 BCN w Ms
																		*water from soupy Co included in bag, going to be less Co than weighed
	155.80	156.00	0.20	0.20	100%	155.40	156.00	0.60	0.20	33%					MS			
8	156.00	158.00	2.00	1.90	95%													
	156.00	157.00	1.00	1.00	100%	156.00	156.80	0.80	0.80	100%	45	R341421	13.6		Co	"		top 20cm soupy Co, ultrafines w with water. v. broken into 1-5cm pieces, dull, hard. Mixed w ultrafine soup next 60 cm. hard, sheared distinctly 45 BCN to end
																	N	157.4-157.6, gas being released, bubbles zone dosent react w HCL
	157.00	157.90	0.90	0.90	100%	156.80	157.80	1.00	1.00	100%		R341422	23.2					as above, broken at bottom of run (shoe)
	157.90	158.00	0.10	0.00	0%	157.80	158.00	0.20	0.00	0%					LO			
9	158.00	159.40	1.40	1.40	100%													
	158.00	159.00	1.00	1.00	100%	158.00	159.00	1.00	1.00	100%		R341423	22		Co	"	N	ultrafines in foam @ top, blocky, soft
	159.00	159.40	0.40	0.40	100%	159.00	159.40	0.40	0.40	100%		R341424	14.2		Co	"	N	broken from shoe @ bottom, harder than above Co, bright in part
10	159.40	161.40	2.00	1.15	58%													0.85m Loss prob near top of run
	159.40	160.00	0.60	0.60	100%	159.40	160.00	0.60	0.60	100%		R341424			Co	"	N	bright, mostly soft, blocky
	160.00	160.55	0.55	0.55	100%	160.00	160.55	0.55	0.55	100%	40	R341425	18.8		Co	"	N	bright, soft @ top, gas bubbles seen near base
	160.55	161.40	0.85	0.00	0%	160.55	160.90	0.35	0.00	0%					LO			
11	161.40	163.40	2.00	1.50	75%													

	161.40	161.90	0.50	0.50	100%	160.90	161.40	0.50	0.50	100%		R341425			Co	"	N	v broken @ top, possible loss here, blocky, soft, harder bands throughout
																		~3cm parting removed
	161.90	162.90	1.00	1.00	100%	161.40	162.40	1.00	1.00	100%		R341426	20.2		Co	"	N	bright, v blocky @ top, hard, mostly intact
	162.90	163.40	0.50	0.00	0%	162.40	162.90	0.50	0.00	0%					LO			
12	163.40	164.40	1.00	0.55	55%													
	163.40	163.95	0.55	0.55	100%	163.40	163.95	0.55	0.55	100%				B	Ms		Y	v broken at top some coal fragments mixed in with broken core @ top
																		More intact @ bottom. Slickensided fracture surfaces @ base
	163.95	164.40	0.45	0.00	0%	163.95	164.40	0.45	0.00	0%					LO			
13	164.40	165.40	1.00	0.30	30%													
	164.40	164.70	0.30	0.30	100%	164.40	164.70	0.30	0.30	100%					Ms		Y	competely broken core, slickensided surfaces, carboneous in part
	164.70	165.40	0.70	0.00	0%	164.70	165.40	0.70	0.00	0%				B	LO			loss prob in fractured rock above
14	165.40	167.00	1.60	1.00	63%													
	165.40	166.40	1.00	1.00	100%	165.40	166.40	1.00	1.00	100%		R341427	11.8		Co	"	Y	v broken @ top, intact @ mid base bright, blocky @ base
																		bright, blocky @ base, 1x ~ 1cm parting removed
	166.40	167.00	0.60	0.00	0%	166.40	167.00	0.60	0.00	0%					LO			
15	167.00	169.00	2.00	1.82	91%													
	167.00	168.00	1.00	1.00	100%	167.00	168.00	1.00	1.00	100%		R341428	13		Co	"	Y	small HCL reaction, soft, flakey, blocky in part, bright
	168.00	168.82	0.82	0.82	100%	168.00	168.82	0.82	0.82	100%		R341429	22.6		Co	"	Y	minor HCL reaction, as above
	168.82	169.00	0.18	0.00	0%	168.82	169.00	0.18	0.00	0%					LO			
16	169.00	171.40	2.40	2.40	100%													
	169.00	169.18	0.18	0.18	100%	169.00	169.18	0.18	0.18	100%		R341429	22.6	B	Co	"	Y	blocky, sheared
	169.18	169.98	0.80	0.80	100%	169.18	169.98	0.80	0.80	100%		R341430	24.4	I	Co	"	Y	as above, muddy toward bottom
	169.98	170.31	0.33	0.33	100%	169.98	170.31	0.33	0.33	100%		R341430		I	Co	"	Y	hard, muddy
	170.31	171.40	1.09	1.09	100%	170.31	171.40	1.09	1.09	100%		R341431	23.6		Co			bright + blocky @ top hard, gas bubbles seen when barrel opened
17	171.40	173.40	2.00	1.40	70%													
	171.40	172.40	1.00	1.00	100%	171.40	172.40	1.00	1.00	100%		R341432	20.2	I	Co	"	Y	blocky, flakey, soft, gets harder/muddier towards base
	172.40	172.80	0.40	0.40	100%	172.40	172.80	0.40	0.40	100%		R341433	18.8	I	Co	"	Y	soft, blocky, flakey 2x ~1cm muddy partings removed, sheared
	172.80	173.40	0.60	0.00	0%	172.80	173.40	0.60	0.00	0%					LO			
18	173.40	175.40	2.00	0.90	45%													1.1m loss
	173.40	173.55	0.15	0.15	100%	173.40	173.55	0.15	0.15	100%				I	CM		Y	coaly, hard, gassy
	173.55	174.30	0.75	0.75	100%	173.55	174.30	0.75	0.75	100%		R341433			Co	"	Y	sheared, black, multiple 1-2cm partings. Removed from sample
	174.30	175.40	1.10	0.00	0%	174.30	175.40	1.10	0.00	0%					LO			
19	175.40	177.40	2.00	1.35	68%													see photos. Core @ top & bottom of barrel. Foal in middle section. Not many fines in water
	175.40	175.95	0.55	0.55	100%	175.40	175.80	0.40	0.55	137%		R341434	15.6	B	Co	"	N	py on some fragments.Completely broken core. Coal Chunks hard, small soft fragments at base
	175.95	176.75	0.80	0.80	100%	175.80	176.75	0.95	0.80	84%				B	Ms		N	contact hard to distinguish due to very broken core
	176.75	177.40	0.65	0.00	0%	176.75	177.40	0.65	0.00	0%					LO			
20	177.40	179.00	1.60	1.30	81%													very fractured 0.3m loss
	177.40	178.70	1.30	1.30	100%	177.40	178.70	1.30	1.30	100%				B	Ms		N	slickensided throughout coaly near base. Some gouge seen coming up hole
																		Driller noted that the hole was making water at this fractured section.
	178.70	179.00	0.30	0.00	0%	178.70	179.00	0.30	0.00	0%					LO			
21	179.00	180.40	1.40	1.15	82%													
	179.00	180.15	1.15	1.15	100%	179.00	180.15	1.15	1.15	100%				B	Cm			Coal stringers & fragments towards base hard to distinguish boundaries as core is quite sheared
																		slickenslides throughout
	180.15	180.40	0.25	0.00	0%	180.15	181.00	0.85	0.00	0%					LO			
22	180.40	183.00	2.60	2.00	77%													
	180.40	180.85	0.45	0.45	100%	181.00	181.45	0.45	0.45	100%		R341434		B	Co	"	N	v fractured, Cm fragments near top (removed)
	180.85	181.85	1.00	1.00	100%	181.45	182.45	1.00	1.00	100%		R341435	20.6	I	Co	"	N	soft, blocky, sheared, harder toeards bottom of unit, bright
	181.85	182.40	0.55	0.55	100%	182.45	183.00	0.55	0.55	100%		R341436	16.2	I	Co	"	Y	hard, slickensided fractures, broken from shoe
	182.40	183.00	0.60	0.00	0%										LO			
23	183.00	185.00	2.00	1.00	50%													
	183.00	183.45	0.45	0.45	100%	183.00	183.45	0.45	0.45	100%		R341436		B	Co	"	Y	lm loss- v broken @ top, soft, sheared. Harder & blockier towards bottom
	183.45	184.00	0.55	0.55	100%	183.45	184.00	0.55	0.55	100%		R341437	21.8	B	Co	"	Y	soft , sheared, bright, broken from shoe
	184.00	185.00	1.00	0.00	0%	184.00	185.00	1.00	0.00	0%					LO			
24	185.00	187.00	2.00	1.50	75%													
	185.00	185.45	0.45	0.45	100%	185.00	185.45	0.45	0.45	100%		R341437		B	Co	"	Y	v broken core, sheared, soft
	185.45	186.30	0.85	0.85	100%	185.45	186.30	0.85	0.85	100%		R341438	19.8	I	Co	"	Y	soft, sheared, bright banding
	186.30	186.50	0.20	0.20	100%	186.30	186.50	0.20	0.20	100%				I	Ms		Y	carbonaceous @ top intact but broken getting it out of the shoe
	186.50	187.00	0.50	0.00	0%	186.50	187.00	0.50	0.00	0%					LO			
25	187.00	189.40	2.40	2.40	100%													
	187.00	187.10	0.10	0.10	100%	187.00	187.10	0.10	0.10	100%				B	Ms		Y	broken, carbonaceous

	187.10	187.25	0.15	0.15	100%	187.10	187.25	0.15	0.15	100%		R341438		B	Co	"	Y	broken, soft, sheared
	187.25	188.25	1.00	1.00	100%	187.25	188.25	1.00	1.00	100%		R341439	22.8		Co	"	Y	sheared, soft, Intact
	188.25	188.65	0.40	0.40	100%	188.25	188.65	0.40	0.40	100%		R341440	9.6		Co	"	Y	v sheared, soft, blocky in a part
	188.65	189.40	0.75	0.75	100%	188.65	189.40	0.75	0.75	100%				B	Ms			broken from shoe, Cm fragments
																		drilling solution downhole. To no avail, hole called.
																		EOH 189.4

CanAus Coal Ltd.

Large Diameter (6”) Core Description

Hole: **LR16CC-05**

Northing: **5502208.00**

Easting: **661202.00**

Elevation: **1411.00**

UTM System: NAD83

	Driller's Coring Info					
					Recovered	
Run #	from	to	Interval	Interval OK	m	%
1	84.60	86.00	1.40		1.15	82%
2	86.00	87.40	1.40	ok	0.00	0%
3	87.40	88.00	0.60	ok	0.30	50%
4	149.00	151.00	2.00		1.85	93%
5	151.00	153.40	2.40	ok	2.00	83%
6	153.40	154.00	0.60	ok	0.30	50%
7	154.00	156.00	2.00	ok	2.20	110%
8	156.00	158.00	2.00	ok	1.90	95%
9	158.00	159.40	1.40	ok	1.40	100%
10	159.40	161.40	2.00	ok	1.15	58%
11	161.40	163.40	2.00	ok	1.50	75%
12	163.40	164.40	1.00	ok	0.55	55%
13	164.40	165.40	1.00	ok	0.30	30%
14	165.40	167.00	1.60	ok	1.00	63%
15	167.00	169.00	2.00	ok	1.82	91%
16	169.00	171.40	2.40	ok	2.40	100%
17	171.40	173.40	2.00	ok	1.40	70%
18	173.40	175.40	2.00	ok	0.90	45%
19	175.40	177.40	2.00	ok	1.35	68%
20	177.40	179.00	1.60	ok	1.30	81%
21	179.00	180.40	1.40	ok	1.15	82%
22	180.40	183.00	2.60	ok	2.00	77%
23	183.00	185.00	2.00	ok	1.00	50%
24	185.00	187.00	2.00	ok	1.50	75%
25	187.00	189.40	2.40	ok	2.40	100%
Total			43.80		32.82	75%

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-05

Northing: 5502208.00
Easting: 661202.00
Elevation: 1411.00

UTM System: NAD83

Hole Orientation: Vertical

Hole Type: 6 inch/15cm core

Logged by: DT,ML,AC

Property: Loop Ridge
Seam: 11,10
Total Depth: 189.4
Date: 2016-06-22

Cased to: 9
Core point: 84.6, 189

	Driller's Coring Info					Interval Corrected to Log											
				Recovered				Length				Sample Mass		Lith Code	Seam	Acid Test	
Run #	from	to	Interval	m	%	from	to	(m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
	149.00	150.00	1.00	1.00	100%						R341416	16.6		Co	10		149-149.52: brittle, friable zone. Pieces of coal 1-5 cm in size
	150.00	150.85	0.85	0.85	100%						R341417	20.2		Co	"		as above, broken at bottom of run (shoe)
	151.00	151.15	0.15	0.15	100%						R341417			Co	"		as above. V broken to small pieces ~1cm
	151.15	152.23	1.08	1.18	109%					50	R341418	20		Co	"		as above. Dirty contact @ 50BCN w Ms
	152.00	153.40	1.40		0%									Ms			brown, brown streak. Top 34 cm. v. broken soft and intermixed w Co and carb. Material
	153.40	154.00	0.60	0.30	50%								I	Ms		Y	brown-grey, brown streak, Intact. Calcite Infilling
	154.00	155.00	1.00	1.00	100%						R341419	17.6		Co	"		soft sheared, v. broken, bright, w shiny slickenslide faces, soupy Co w water, gas bubbling.
	155.00	156.00	1.00	1.00	100%						R341420	14		Co	"		as above, sharp contact ~20 BCN w Ms
	156.00	156.20	0.20	0.20	100%									MS			
	156.00	157.00	1.00	1.00	100%						R341421	13.6		Co	"		top 20cm soupy Co, ultrafines w with water
	157.00	157.90	0.90	0.90	100%						R341422	23.2		CO			as above, broken at bottom of run (shoe)
	158.00	159.00	1.00	1.00	100%						R341423	22		Co	"	N	ultrafines in foam @ top, blocky, soft
	159.00	159.40	0.40	0.40	100%						R341424	14.2		Co	"	N	broken from shoe @ bottom, harder than above Co, bright in part
	159.40	160.00	0.60	0.60	100%						R341424			Co	"	N	bright, mostly soft, blocky
	160.00	160.55	0.55	0.55	100%					40	R341425	18.8		Co	"	N	bright, soft @ top, gas bubbles seen near base
	161.40	161.90	0.50	0.50	100%						R341425			Co	"	N	v broken @ top, possible loss here, blocky, soft, harder bands throughout
	161.90	162.90	1.00	1.00	100%						R341426	20.2		Co	"	N	bright, v blocky @ top, hard, mostly intact
	163.40	164.40	1.00	0.55	55%								B	Ms		Y	v broken at top some coal fragments mixed in with broken core @ top
	164.40	165.70	1.30		0%								B	Ms		Y	competely broken core, slickensided surfaces, carboneous in part
	165.40	167.00	1.60	1.00	63%						R341427	11.8		Co	"	Y	v broken @ top, intact @ mid base bright, blocky @ base
	167.00	168.00	1.00	1.00	100%						R341428	13		Co	"	Y	small HCL reaction, soft, flakey, blocky in part, bright
	168.00	168.82	0.82	0.82	100%						R341429	22.6		Co	"	Y	minor HCL reaction, as above
	169.00	169.18	0.18	0.18	100%						R341429		B	Co	"	Y	blocky, sheared
	169.18	169.98	0.80	0.80	100%						R341430	24.4	I	Co	"	Y	as above, muddy toward bottom
	169.98	170.31	0.33	0.33	100%						R341430		I	Co	"	Y	hard, muddy
	170.31	171.40	1.09	1.09	100%						R341431	23.6		Co			bright + blocky @ top hard, gas bubbles seen when barrel opened
	171.40	172.40	1.00	1.00	100%						R341432	20.2	I	Co	"	Y	blocky, flakey, soft, gets harder/muddier towards base
	172.40	172.80	0.40	0.40	100%						R341433	18.8	I	Co	"	Y	soft, blocky, flakey 2x ~1cm muddy partings removed, sheared
	173.40	173.55	0.15	0.15	100%								I	CM		Y	coaly, hard, gassy
	173.55	174.30	0.75	0.75	100%						R341433			Co	"	Y	sheared, black, multiple 1-2cm partings. Removed from sample
	175.40	175.95	0.55	0.55	100%						R341434	15.6	B	Co	"	N	py on some fragments.Completely broken core. Coal Chunks hard, small soft fragments at base
	175.95	176.75	0.80	0.80	100%								B	Ms		N	contact hard to distinguish due to very broken core
	177.40	178.70	1.30	1.30	100%								B	Ms		N	slickensided throughout coaly near base. Some gouge seen coming up hole
	179.00	180.15	1.15	1.15	100%								B	Cm			Coal stringers & fragments towards base hard to distinguish boundaries as core is quite sheared
	180.40	180.85	0.45	0.45	100%						R341434		B	Co	"	N	v fractured, Cm fragments near top (removed)
	180.85	181.85	1.00	1.00	100%						R341435	20.6	I	Co	"	N	soft, blocky, sheared, harder toeards bottom of unit, bright
	181.85	182.40	0.55	0.55	100%						R341436	16.2	I	Co	"	Y	hard, slickensided fractures, broken from shoe
	183.00	183.45	0.45	0.45	100%						R341436		B	Co	"	Y	lm loss- v broken @ top, soft, sheared. Harder & blockier towards bottom
	183.45	184.00	0.55	0.55	100%						R341437	21.8	B	Co	"	Y	soft , sheared, bright, broken from shoe
	185.00	185.45	0.45	0.45	100%						R341437		B	Co	"	Y	v broken core, sheared, soft
	185.45	186.30	0.85	0.85	100%						R341438	19.8	I	Co	"	Y	soft, sheared, bright banding
	186.30	186.50	0.20	0.20	100%								I	Ms		Y	carbonaceous @ top intact but broken getting it out of the shoe
	187.00	187.10	0.10	0.10	100%								B	Ms		Y	broken, carbonaceous
	187.10	187.25	0.15	0.15	100%						R341438		B	Co	"	Y	broken, soft, sheared
	187.25	188.25	1.00	1.00	100%						R341439	22.8		Co	"	Y	sheared, soft, Intact

	188.25	188.65	0.40	0.40	100%						R341440	9.6		Co	"	Y	v sheared, soft, blocky in a part
	188.65	189.40	0.75	0.75	100%								B	Ms			broken from shoe, Cm fragments
Total	149.00	189.40	40.40	30.40	75%												
Recovered rock			5.50	5.50	100%	assumed											
Recovered coal			34.90	24.90	71%							461.2	60%	by mass @ 22kg/m			

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-06

Northing: 5502201 **Easting:** 661209 **Elevation:** 1394m

UTM System: NAD83

Hole Orientation: Vertical

Hole Type: 6 inch/15cm core

Logged by: ML/AC/DT

Property: Loop Ridge

Seam: 10

Total Depth: 191.4

Date: Jun. 23/24, 2016

Cased to: 9

Core point: 191

Run #	Driller's Depths From	To	Interval	Recovered m	Recovered %	Corrected Depths From	To	Interval	Recovered m	Recovered %	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
1	148.00	149.00	1.00	0.40	40%	148.00	149.00	1.00	0.40	40%								
	148.00	148.30	0.30	0.30	100%	148.00	148.30	0.30	0.30	100%				I	Ms			brown, brown streak. Sharp contact w Co
	148.30	148.40	0.10	0.10	100%	148.30	148.40	0.10	0.10	100%		R341441	18	B	Co	10		v broken pieces up to 5 cm & ultrafines (v soupy) bright & light. Soft, sheared. Soupy coal giving off gas
	148.40	149.00	0.60		0%	148.40	149.00	0.60		0%					LO			
2	149.00	151.00	2.00	1.70	85%	149.00	151.00	2.00	1.70	85%								
	149.00	149.90	0.90	0.90	100%	149.00	149.90	0.90	0.90	100%		R341441			Co	"		v broken with pieces of Co up to 5cm in fg Co. bigger pieces are shiny, soft, sheared, and light
																	Y	not v strong reaction to HCL, only the fg Co
																		*gases present, v. little not seen after a few minutes
	149.90	150.50	0.60	0.60	100%	149.90	150.50	0.60	0.60	100%		R341442	19.2		Co	"	Y	as above
	150.50	151.00	0.50	0.00	0%	150.50	151.00	0.50	0.00	0%					LO			
3	151.00	153.40	2.40	2.20	92%	151.00	153.40	2.40	2.20	92%								
	151.00	151.40	0.40	0.40	100%	151.00	151.40	0.40	0.40	100%		R341442			Co	"		as above
	151.40	152.40	1.00	1.00	100%	151.40	152.40	1.00	1.00	100%		R341443	20.6		Co	"		as above
	152.40	152.75	0.35	0.35	100%	152.40	152.75	0.35	0.35	100%		R341444	21		Co	"		152.3-152.45, zone where the Co is hard, dull, and v sheared
																	N	gas seems to be coming fr sheared faces
	152.75	153.20	0.45	0.45	100%	152.75	153.20	0.45	0.45	100%				B	Ms			broken @ bottom of run/shoe. Sharp contact, orientation not seen
	153.20	153.40	0.20	0.00	0%	153.20	153.40	0.20	0.00	0%					LO			
4	153.40	155.40	2.00	1.50	75%	153.40	155.40	2.00	1.50	75%								
	153.40	153.74	0.34	0.34	100%	153.40	153.74	0.34	0.34	100%				B	Ms			v broken into pieces ranging from 1-9cm
	153.74	154.47	0.73	0.73	100%	153.74	154.47	0.73	0.73	100%	35 45			B/I	Ms		N	fractures @35 BCN w fault gouge clays v broken @ contact w Co into pieces 1-2cm. sharp contact @ 45 BCN
	154.47	154.93	0.46	0.43	93%	154.47	154.93	0.46	0.43	93%		R341444			Co	"		v fg coal (dull), v broken. Bigger pieces brighter, soft, sheared. Gas seen bubbling out of core barrel, but not when it was laid out. *suspected loss @ top of run in Ms
	154.93	155.40	0.47	0.00	0%	154.93	155.40	0.47	0.00	0%					LO			
5	155.40	157.40	2.00	1.60	80%	155.40	157.40	2.00	1.60	80%								
	155.40	155.62	0.22 0.00	0.22	100%	155.40	155.62	0.22 0.00	0.22	100%		R341444		B	Co	"	N	as above. V broken. Pieces up tp 4cm in size. Gas seen bubbling on them. A thin sludge on the bigger pieces
	155.62	156.62	1.00	1.00	100%	155.62	156.62	1.00	1.00	100%		R341445	22.2	B/I	Co	"	N	as above. V soft. Gas bubbling.More competent. Sheared @ 45 BCN
	156.62	157.00	0.38	0.38	100%	156.62	157.00	0.38	0.38	100%		R341446	14.6	B	Co	"	N	broken @ bottom of run shoe. Co as above, seen bubbling while intact in shoe
	157.00	157.40	0.40	0.00	0%	157.00	157.40	0.40	0.00	0%					LO			
6	157.40	159.40	2.00	0.00	0%	157.40	159.40	2.00	0.00	0%								*Lost Entire Run. Co ultrafine section lost through shoe
	157.40	159.40	2.00	0.00	0%	157.40	159.40	2.00	0.00	0%					LO			
7	159.40	160.40	1.00	1.00	100%	159.40	160.40	1.00	1.00	100%								
	159.40	159.80	0.40	0.40	100%	159.40	159.80	0.40	0.40	100%		R341446			Co	"		ultrafine section. A lot of water in the mixture
	159.80	160.40	0.60	0.60	100%	159.80	160.40	0.60	0.60	100%		R341447	25.4		Co	"	N	a.a. Gas bubbling seen. only reason ultrafine section recovered is Co was competent at the bottom of the
8	160.40	162.40	2.00	1.70	85%	160.40	162.40	2.00	1.70	85%								
	160.40	160.50	0.10	0.10	100%	160.40	160.50	0.10	0.10	100%		R341447			Co	"		ultrafines
	160.50	160.80	0.30	0.30	100%	160.50	160.80	0.30	0.30	100%		R341447			Co			dull w some bright blocky pieces, soft, sheared. Gas bubbling seen
	160.80	161.80	1.00	1.00	100%	160.80	161.80	1.00	1.00	100%		R341448	24.2		Co			as above
	161.80	162.10	0.30	0.30	100%	161.80	162.10	0.30	0.30	100%		R341449	15.8		Co			as above
	162.10	162.40	0.30	0.00	0%	162.10	162.40	0.30	0.00	0%					LO			
9	162.40	164.40	2.00	1.50	75%	162.40	164.40	2.00	1.50	75%								
	162.40	163.10	0.70	0.70	100%	162.40	163.10	0.70	0.70	100%		R341449			Co	"		v broken in to pieces 1-5 cm in size. Larger pieces v hard, v light. Mixed w fg Co
	163.10	163.30	0.20	0.20	100%	163.10	163.30	0.20	0.20	100%		R341450	9.6		Co	"		as above
	163.30	163.70	0.40	0.40	100%	163.30	163.70	0.40	0.40	100%					Ms			parting excluded
	163.70	163.90	0.20	0.20	100%	163.70	163.90	0.20	0.20	100%		R341450			Co			as above, broken @ shoe. *tough zone to sample Co v muddy
	163.90	164.40	0.05	0.00	0%	163.90	164.40	0.05	0.00	0%					LO			
10	164.40	165.40	1.00	1.00	100%	164.40	165.40	1.00	1.00	100%								

	164.40	164.80	0.40	0.40	100%	164.40	164.80	0.40	0.40	100%		R341354	10.2		Co	"		ultrafines, soupy. Made as one sample
	164.80	165.10	0.30	0.30	100%	164.80	165.10	0.30	0.30	100%		R341354			Co	"		soft, sheared, broken w bigger pieces & fg Co (ultrafines)
	165.10	165.40	0.30	0.30	100%	165.10	165.40	0.30	0.30	100%		R341354			Co/Ms	"		obvious Ms excluded
11	165.40	167.40	2.00	2.45	123%	165.40	167.40	2.00	2.45	123%								
	165.40	166.40	1.00	1.00	100%	165.40	166.40	1.00	1.00	100%		R341355	16.8	B	Co	"		occ Ms fragments. Removed from sample, hard blocky frags mixed with fines, soft overall.
	166.40	166.95	0.55	1.00	182%	166.40	166.95	0.55	1.00	182%		R341356	10.6	B	Co	"		ultrafines in foam for ~40cm in mid rest of core intact. Soft, bright
	166.95	167.40	0.45	0.45	100%	166.95	167.40	0.45	0.45	100%		R341357	11.4	B	Co	"		broken from shoe. Sheared, Ms part ~5cm excluded
12	167.40	169.40	2.00	2.00	100%	167.40	169.40	2.00	2.00	100%								
	167.40	167.60	0.20	0.20	100%	167.40	167.60	0.20	0.20	100%				B	Ms			v broken Co. Laminations in Ms
	167.60	168.15	0.55	0.55	100%	167.60	168.15	0.55	0.55	100%		R341357			Co	"	N	broken at top, blocky, sheared, soft
	168.15	169.15	1.00	1.00	100%	168.15	169.15	1.00	1.00	100%		R341358	20.8		Co	"	N	blocky, soft, sheared occ Ms frags. partings removed
	169.15	169.40	0.25	0.25	100%	169.15	169.40	0.25	0.25	100%		R341359	9.8		Co	"		as above
13	169.40	171.40	2.00	2.00	100%	169.40	171.40	2.00	2.00	100%								
	169.40	169.90	0.50	0.50	100%	169.40	169.90	0.50	0.50	100%		R341359		Foam	Co	"	Y	ultrafines sample ~50cm of foam from barrel. NOT IN PHOTO
	169.90	170.55	0.65	0.65	100%	169.90	170.55	0.65	0.65	100%		R341360	17.4	B	Co	"	Y	blocky, broken, multiple Ms parting removed
	170.55	170.77	0.22	0.22	100%	170.55	170.77	0.22	0.22	100%				I	Ms		Y	coaly @ top, hard, gas bubbles seen
	170.77	170.97	0.20	0.20	100%	170.77	170.97	0.20	0.20	100%		R341360		B	Co		Y	sheared muddy some coal frags sampled from below
	170.97	171.40	0.43	0.43	100%	170.97	171.40	0.43	0.43	100%				I	Ms/Co		Y	interbedded w Co for top 1/2, solid Ms towards base, sheared
14	171.40	173.40	2.00	1.70	85%	171.40	173.40	2.00	1.70	85%								
	171.40	171.70	0.30	0.30	100%	171.40	171.70	0.30	0.30	100%		R341361	12.4		Co			ultrafines in foam, measured in split as ~ 30cm NOT IN PHOTO
	171.70	172.40	0.70	0.70	100%	171.70	172.40	0.70	0.70	100%		R341361			Co			very fg almost entirely powder
	172.40	172.95	0.55	0.55	100%	172.40	172.95	0.55	0.55	100%		R341362	17.2		Co			as above
	172.95	173.10	0.15	0.15	100%	172.95	173.10	0.15	0.15	100%					Ms			broken from shoe, catcher bent ao rock had to be broken out
	173.10	173.40	0.30	0.30	100%	173.10	173.40	0.30	0.30	100%					LO			
15	173.40	175.40	2.00	2.00	100%	173.40	175.40	2.00	2.00	100%								LOST RUN.
	173.40	175.40	1.60	0.00	0%	173.40	175.40	1.60	0.00	0%					LO			Felt like the ground was fractured, brief loss of circulation
																		Changed to finger catcher, still no return. Resistance while drilling
16	175.40	176.00	0.60	0.50	83%	175.40	176.00	0.60	0.50	83%		R341362		B	CO			very fine ground up, ultrafines in foam. Hard to measure extactly
	175.40	175.90	0.50	0.50	100%	175.40	175.90	0.50	0.50	100%								
	175.90	176.00	0.10	0.00	0%	175.90	176.00	0.10	0.00	0%					LO			
17	176.00	177.40	1.40	1.80	129%	176.00	177.40	1.40	1.80	129%								
																		ultrafines in foam, hard to measure exact length of core. Foam/fines @ top, blocky. hard coal, Ms
	176.00	177.30	1.30	1.30	100%	176.00	177.30	1.30	1.30	100%		R341363	20	B	Co			partings removed 2x ~1cm
	176.90	177.40	0.50	0.50	100%	176.90	177.40	0.50	0.50	100%				B	Ms			mixed w Co, hard to define contact
18	177.40	179.40	2.00	1.90	95%	177.40	179.40	2.00	1.90	95%								
	177.40	179.30	1.90	1.90	100%	177.40	179.30	1.90	1.90	100%				B	Ms		N	sheared throughout, co laminations bands throughout, slickenslides on surfaces. carbonaceous in part
	179.30	179.40	0.10	0.00	0%	179.30	179.40	0.10	0.00	0%					LO			
19	179.40	181.00	1.60	1.40	88%	179.40	181.00	1.60	1.40	88%								
	179.40	180.60	1.20	1.20	100%	179.40	180.60	1.20	1.20	100%				B	Ms		N	as above, coaly
	180.60	180.80	0.20	0.20	100%	180.60	180.80	0.20	0.20	100%		R341364	20	B	Co		N	sheared, soft, muddy, blocky
	180.80	181.00	0.20	0.00	0%	180.80	181.00	0.20	0.00	0%					LO			
20	181.00	183.40	2.40	1.50	62%	181.00	183.40	2.40	1.50	62%								
	181.00	181.80	0.80	0.80	100%	181.00	181.80	0.80	0.80	100%		R341364		B	Co		Y	soft, sheared, very broken @ top fg and blocky in part. small amount of HCL reaction
	181.80	182.50	0.70	0.70	100%	181.80	182.50	0.70	0.70	100%		R341365	17.6	B	Co		Y	as above, harder @ base v rare py
	182.50	183.40	0.80	0.00	0%	182.50	183.40	0.80	0.00	0%					LO			
21	183.40	185.00	1.60	1.70	106%	183.40	185.00	1.60	1.70	106%								
	183.40	183.70	0.30	0.30	100%	183.40	183.70	0.30	0.30	100%		R341365		B	Co		N	soft, sheared, v fragmented, blocky
	183.70	184.70	1.00	1.00	100%	183.70	184.70	1.00	1.00	100%		R341366	21.2	B	Co		N	as above
	184.70	185.00	0.30	0.40	133%	184.70	185.00	0.30	0.40	133%		R341367	14.6	B	Co		Y	more intact than upper units, broken from shoe. Soft , dull, slickenslided
22	185.00	187.40	2.40	2.12	88%	185.00	187.40	2.40	2.12	88%								
	185.00	185.60	0.60	0.60	100%	185.00	185.60	0.60	0.60	100%		R341367		B	Co		Y	blocky, soft, small fragment core
	185.60	185.77	0.17	0.17	100%	185.60	185.77	0.17	0.17	100%		R341368	19.2	B	Co		Y	as above
	185.77	186.09	0.32	0.32	100%	185.77	186.09	0.32	0.32	100%				I	Cm		Y	hard, coaly
	186.09	186.92	0.83	0.83	100%	186.09	186.92	0.83	0.83	100%		R341368		B	Co		Y	soft, sheared
	186.92	187.12	0.20	0.20	100%	186.92	187.12	0.20	0.20	100%		R341369	19.6	B	Co		Y	as above, fine/powdery
	187.12	187.40	0.28	0.00	0%	187.12	187.40	0.28	0.00	0%					LO			
23	187.40	189.40	2.00	1.70	85%	187.40	189.40	2.00	1.70	85%								
	187.40	188.17	0.77	0.77	100%	187.40	188.17	0.77	0.77	100%		R341369		B	Co	"	Y	some hard blocky pieces in ground coal, some visible py slight
	188.17	188.80	0.63	0.63	100%	188.17	188.80	0.63	0.63	100%		R341370	12	B	Co	"	Y	a few py blebs and MST partings visible (excluded)
	188.80	189.10	0.30	0.30	100%	188.80	189.10	0.30	0.30	100%				B	Cm			carb MST with flakey Co, graditional contact into hard MST
	189.10	189.40	0.30	0.00	0%	189.10	189.40	0.30	0.00	0%					LO			
24	189.40	191.40	2.00	1.85	93%	189.40	191.40	2.00	1.85	93%								
	189.40	190.40	1.00	1.00	100%	189.40	190.40	1.00	1.00	100%	65			B	Cm		N	as above, v broken sharp contact w Ms @ 65 BCN

190.40	191.25	0.85	0.85	100%	190.40	191.25	0.85	0.85	100%				hard, broken, brown, brown streak. Fractures @45BCN
191.25	191.40	0.15	0.00	0%	191.25	191.40	0.15	0.00	0%			LO	fracture surfaces sheared w Slickenslides and fg clayey fault gouge mat.
										R341371	36.2		*sample 371 includes recovered Co fr ~183-185

CanAus Coal Ltd.

Large Diameter (6”) Core Description

Hole: **LR16CC-06**

Northing: **5502201.00**
Easting: **661209.00**
Elevation: **1394m**

UTM System: NAD83

Run #	Driller's Coring Info				Recovered	
	from	to	Interval	Interval OK	m	%
1	148.00	149.00	1.00		0.40	40%
2	149.00	151.00	2.00	ok	1.70	85%
3	151.00	153.40	2.40	ok	2.20	92%
4	153.40	155.40	2.00	ok	1.50	75%
5	155.40	157.40	2.00	ok	1.60	80%
6	157.40	159.40	2.00	ok	0.00	0%
7	159.40	160.40	1.00	ok	1.00	100%
8	160.40	162.40	2.00	ok	1.70	85%
9	162.40	164.40	2.00	ok	1.50	75%
10	164.40	165.40	1.00	ok	1.00	100%
11	165.40	167.40	2.00	ok	2.45	123%
12	167.40	169.40	2.00	ok	2.00	100%
13	169.40	171.40	2.00	ok	2.00	100%
14	171.40	173.40	2.00	ok	1.70	85%
15	173.40	175.40	2.00	ok	0.00	0%
16	175.40	176.00	0.60	ok	0.50	83%
17	176.00	177.40	1.40	ok	1.80	129%
18	177.40	179.40	2.00	ok	1.90	95%
19	179.40	181.00	1.60	ok	1.40	88%
20	181.00	183.40	2.40	ok	1.50	62%
21	183.40	185.00	1.60	ok	1.70	106%
22	185.00	187.40	2.40	ok	2.12	88%
23	187.40	189.40	2.00	ok	1.70	85%
24	189.40	191.40	2.00	ok	1.85	93%
Total	148.00	191.40	43.40		35.22	81%

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-06

Northing: 5502201.00 **UTM System:** NAD83 **Hole Orientation:** Vertical **Property:** Loop Ridge **Cased to:** 9

Easting: 661209.00 **Hole Type:** 6 inch/15cm core **Seam:** 10 **Core point:** 191

Elevation: 1394m **Total Depth:** 191.4

Logged by: ML/AC/DT **Date:** Jun. 23/24, 2016

	Driller's Coring Info					Interval Corrected to Log						Sample Mass		Lith Code	Seam	Acid Test	
				Recovered												Fizz	
Run #	from	to	Interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
	148.00	148.30	0.30	0.30	100%			0.30					I	Ms			brown, brown streak. Sharp contact w Co
	148.30	148.40	0.10	0.10	100%			0.10			R341441	18	B	Co	10		v broken pieces up to 5 cm & ultrafines (v soupy)
	149.00	149.90	0.90	0.90	100%			0.90			R341441			Co	"		v broken with pieces of Co up to 5cm in fg Co.
	149.90	150.50	0.60	0.60	100%			0.60			R341442	19.2		Co	"	Y	as above
	151.00	151.40	0.40	0.40	100%			0.40			R341442			Co	"		as above
	151.40	152.40	1.00	1.00	100%			1.00			R341443	20.6		Co	"		as above
	152.40	152.75	0.35	0.35	100%			0.35			R341444	21		Co	"		152.3-152.45, zone where the Co is hard, dull, and v sheared
	152.75	153.20	0.45	0.45	100%			0.45					B	Ms			broken @ bottom of run/shoe. Sharp contact, orientation not seen
	153.40	153.74	0.34	0.34	100%			0.34					B	Ms			v broken into pieces ranging from 1-9cm
	153.74	154.47	0.73	0.73	100%			0.73		35			B/I	Ms		N	fractures @35 BCN w fault gouge clays v broken @ contact w Co into pieces 1-2cm.
	154.47	154.93	0.46	0.43	93%			0.43			R341444			Co	"		v fg coal (dull), v broken. Bigger pieces brighter, soft, sheared. Gas seen bubbling out of core
	155.40	155.62	0.22	0.22	100%			0.22			R341444		B	Co	"	N	as above. V broken. Pieces up tp 4cm in size. Gas seen bubbling on them. A thin sludge on the
	155.62	156.62	1.00	1.00	100%			1.00			R341445	22.2	B/I	Co	"	N	as above. V soft. Gas bubbling.
	156.62	157.00	0.38		0%						R341446	14.6	B	Co	"	N	broken @ bottom of run shoe. Co as above, seen bubbling while intact in shoe
	159.40	159.80	0.40	0.40	100%			0.40			R341446			Co	"		ultrafine section. A lot of water in the mixture
	159.80	160.40	0.60	0.60	100%			0.60			R341447	25.4		Co	"	N	as above. Gas bubbling seen
	160.40	160.50	0.10	0.10	100%			0.10			R341447			Co	"		ultrafines
	160.50	160.80	0.30	0.30	100%			0.30			R341447			Co			dull w some bright blocky pieces, soft, sheared. Gas bubbling seen
	160.80	161.80	1.00	1.00	100%			1.00			R341448	24.2		Co			as above
	161.80	162.10	0.30	0.30	100%			0.30			R341449	15.8		Co			as above
	162.40	163.10	0.70	0.70	100%			0.70			R341449			Co	"		v broken in to pieces 1-5 cm in size. Larger pieces v hard, v light. Mixed w fg Co
	163.10	163.30	0.20	0.20	100%			0.20			R341450	9.6		Co	"		as above
	163.30	163.70	0.40	0.40	100%			0.40						Ms			parting excluded
	163.70	163.90	0.20	0.20	100%			0.20			R341450			Co			as above, broken @ shoe
	164.40	164.80	0.40	0.40	100%			0.40			R341354	10.2		Co	"		ultrafines, soupy. Made as one sample
	164.80	165.10	0.30	0.30	100%			0.30			R341354			Co	"		soft, sheared, broken w bigger pieces & fg Co (ultrafines)
	165.10	165.40	0.30	0.30	100%			0.30			R341354			CO	"		obvious Ms excluded
	165.40	166.40	1.00	1.00	100%			1.00			R341355	16.8	B	Co	"		occ Ms fragments. Removed from sample, hard blocky frags mixed with fines, soft overall.
	166.40	167.40	1.00	1.00	100%			1.00			R341356	10.6	B	Co	"		ultrafines in foam for ~40cm in mid rest of core intact. Soft, bright
	167.40	168.85	1.45	0.45	31%			0.45			R341357	11.4	B	Co	"		broken from shoe. Sheared, Ms part ~5cm excluded
	167.40	167.60	0.20	0.20	100%			0.20					B	Ms			v broken Co. Laminations in Ms
	167.60	168.15	0.55	0.55	100%			0.55			R341357			Co	"	N	broken at top, blocky, sheared, soft
	168.15	169.15	1.00	1.00	100%			1.00			R341358	20.8		Co	"	N	blocky, soft, sheared occ Ms frags
	169.15	169.40	0.25	0.25	100%			0.25			R341359	9.8		Co	"		as above
	169.40	169.90	0.50	0.50	100%			0.50			R341359		Foam	Co	"	Y	ultrafines sample ~50cm of foam from barrel. NOT IN PHOTO
	169.90	170.55	0.65	0.65	100%			0.65			R341360	17.4	B	Co	"	Y	blocky, broken, multiple Ms parting removed
	170.55	170.77	0.22	0.22	100%			0.22					I	Ms		Y	coaly @ top, hard, gas bubbles seen
	170.77	170.97	0.20	0.20	100%			0.20			R341360		B	Co		Y	sheared muddy some coal frags sampled from below
	170.97	171.40	0.43	0.43	100%			0.43					I	MS		Y	interbedded w Co for top 1/2, solid Ms towards base, sheared
	171.40	171.70	0.30	0.30	100%			0.30			R341361	12.4		Co			ultrafines in foam, measured in split as ~ 30cm NOT IN PHOTO
	171.70	172.40	0.70	0.70	100%			0.70			R341361			Co			very fg almost entirely powder
	172.40	172.95	0.55	0.55	100%			0.55			R341362	17.2		Co			as above
	172.95	173.10	0.15	0.15	100%			0.15						Ms			broken from shoe, catcher bent ao rock had to be broken out
16	175.40	176.00	0.60	0.50	83%			0.50			R341362		B	CO			very fine ground up, ultrafines in foam. Hard to measure extactly
	176.00	177.30	1.30	1.30	100%			1.30			R341363	20	B	Co			ultrafines in foam, hard to measure exact length of core. Foam/fines @ top, blocky
	177.30	177.80	0.50	0.50	100%			0.50					B	Ms			mixed w Co, hard to define contact
	177.40	179.40	2.00	1.90	95%			1.90					B	Ms		N	sheared throughout, co laminations bands throughout, slickenslides on surfaces

	179.40	180.65	1.25	1.20	96%	1.20			B	Ms		N	as above, coaly
	180.65	180.80	0.15	0.20	133%	0.20	R341364	20	B	Co		N	sheared, soft, muddy, blocky
	181.00	181.80	0.80	0.80	100%	0.80	R341364		B	Co		Y	soft, sheared, very broken @ top fg and blocky in part
	181.80	182.50	0.70	0.70	100%	0.70	R341365	17.6	B	Co		Y	as above, harder @ base v rare py
	183.40	183.70	0.30	0.30	100%	0.30	R341365		B	Co		N	soft, sheared, v fragmented, blocky
	183.70	184.70	1.00	1.00	100%	1.00	R341366	21.2	B	Co		N	as above
	184.70	185.10	0.40	0.40	100%	0.40	R341367	14.6	B	Co		Y	more intact than upper units, broken from shoe. Soft , dull, slickenslided
	185.00	185.60	0.60	0.60	100%	0.60	R341367		B	Co		Y	blocky, soft, small fragment core
	185.60	185.77	0.17	0.17	100%	0.17	R341368	19.2	B	Co		Y	as above
	185.77	186.09	0.32	0.32	100%	0.32			I	Cm		Y	hard, coaly
	186.09	186.92	0.83	0.83	100%	0.83	R341368		B	Co		Y	soft, sheared
	186.92	187.12	0.20	0.20	100%	0.20	R341369	19.6	B	Co		Y	as above, fine/powdery
	187.12	187.40	0.28	0.28	100%	0.28	R341369		B	Co		Y	in shoe-hard blocky
	187.40	188.17	0.77	0.77	100%	0.77	R341369		B	Co	"	Y	some hard blocky pieces in ground coal, some visible py slight
	188.17	188.80	0.63	0.63	100%	0.63	R341370	12	B	Co	"	Y	a few py blebs and MST partings visible (excluded)
			0.00	0.30	#DIV/0!	0.30			B	Cm			carb MST with flakey Co, graditional contact into hard MST
			0.00	1.00	#DIV/0!	1.00	65		B	Cm		N	as above, v broken sharp contact w Ms @ 65 BCN
					#DIV/0!		R341371	36.2					*sample 371 includes recovered Co fr ~183-185
Total	148.00	188.80	40.80	32.77	80%								
Recovered rock			7.14	7.14	100%								
Recovered coal			33.66	25.63	76%			461.4		62% by mass @ 22kg/m			

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR1CC-07

Northing: 5502201
Easting: 661209
Elevation: 1394m

UTM System: NAD83

Hole Orientation: Vertical
Hole Type: 6 inch/15cm core
Logged by: BL/AC

Property: Loop Ridge
Seam: 10
Total Depth: 191.4m
Date: Jun 25/26, 2016

Cased to: 9m
Core point: At 148m below ground level

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
1	148.00	149.50	1.50	1.20	80%													
	148.00	149.20	1.20	1.20	100%									B	mst		N	Silty mst, broken/sheared.
	149.20	149.50	0.30	0.00	0%										LO			
2	149.50	151.40	1.90	1.75	92%													
	149.50	151.25	1.75	1.75	100%									B	mst		N	aa, carb. Along shear.
	151.25	151.40	0.15	0.00	0%										LO			
3	151.40	153.40	2.00	1.60	80%													
	151.40	152.40	1.00	1.00	100%									B	mst		N	aa, broken/sheared and sharp, contact w. coal, has coal, powdery/shiny, soft
	152.40	153.00	0.60	0.60	100%	152.40	153.00	0.60	0.60	100%		B341372	19.4	Intact	C	10	N	Coal, powdery/shiny,soft.
	153.00	153.40	0.40	0.00	0%	153.00	153.40	0.40	0.00	0%					LO			
4	153.40	155.40	2.00	1.80	90%	153.40	155.40	2.00	1.80	90%				mud	C	10	N	Coal, very soft, muddy w. coarse frags. (hard to measure- very muddy)
	153.40	153.80	0.40	0.40	100%	153.40	153.80	0.40	0.40	100%		372	19.4					
	153.80	154.80	1.00	1.00	100%	153.80	154.80	1.00	1.00	100%		373	17	mud	C	10	N	aa
	154.80	155.20	0.40	0.40	100%	154.80	155.20	0.40	0.40	100%		374	2.22	mud	C	10	N	Coal aa
	155.20	155.40	0.20	0.00	0%	155.20	155.40	0.20	0.00	0%					LO			
5	155.40	157.40	2.00	1.79	90%	155.40	157.40	2.00	1.79	90%								
	155.40	156.50	1.10	1.10	100%	155.40	156.50	1.10	1.10	100%		374	22.2	soup	C	10	N	Coal, so fine that it is not core but soupy mud. (Missed on photo
	156.50	157.18	0.68	0.68	100%	156.50	157.18	0.68	0.68	100%		375	24.6	mud	C	10	N	V. soft but drier.
	157.18	157.40	0.22	0.00	0%	157.18	157.40	0.22	0.00	0%					LO			
6	157.40	159.40	2.00	1.70	85%	157.40	159.40	2.00	1.70	85%				intact	C	10	N	V. soft, slightly drier and some intact core. (Missed photo)
	157.40	158.22	0.82	0.82	100%	157.40	158.22	0.82	0.82	100%		375	24.6					(Missed photo)
	158.22	159.10	0.88	0.88	100%	158.22	159.10	0.88	0.88	100%		376	33.6	crumbly	C	10	N	Coal aa like dirt. (Missed photo)
	159.10	159.40	0.19	0.00	0%	159.10	159.40	0.19	0.00	0%					LO			
7	159.40	161.40	2.00	2.11	106%	159.40	161.40	2.00	2.11	106%								
	159.40	159.91	0.51	0.62	122%	159.40	159.91	0.51	0.62	122%		376		crumbly	C	10	N	Coal, like dirt/crumbly.
	159.91	161.40	1.49	1.49	100%	159.91	161.40	1.49	1.49	100%		377	27.4	crumbly	C	10	N	Coal aa w hard section - 30cm.
8	161.40	163.40	2.00	1.31	66%	161.40	163.40	2.00	1.31	66%		378	26.8	crumbly	C	10	N	Coal, like dirt/ soupy.
	161.40	162.71	1.31	1.31	100%	161.40	162.71	1.31	1.31	100%								
	162.71	163.40	0.69	0.00	0%	162.71	163.40	0.69	0.00	0%					LO			
9	163.40	165.40	2.00	1.76	88%	163.40	165.40	2.00	1.76	88%								(Missed photo)
	163.40	164.96	1.56	1.56	100%	163.40	164.96	1.56	1.56	100%		379	31.2	crumbly	C	10	N	Coal, crumbly/dirt like. (Missed photo)
	164.96	165.22	0.26	0.26	100%	164.96	165.22	0.26	0.26	100%		380	28.4	crumbly	C	10	N	Coal aa. (Missed photo)
	165.22	165.40	0.08	0.00	0%	165.22	165.40	0.08	0.00	0%					LO			
10	165.40	167.40	2.00	0.00	0%	165.40	167.40	2.00	0.00	0%								Nothing in the core bbl.
	165.40	167.40	2.00	0.00	0%	165.40	167.40	2.00	0.00	0%					LO			
11	167.40	168.40	1.00	1.10	110%	167.40	168.40	1.00	1.10	110%								
	167.40	168.40	1.00	1.10	110%	167.40	168.40	1.00	1.10	110%		382	28.4	crumbly	C	10	N	Coal aa.
12	168.40	169.40	1.00	0.64	64%	168.40	169.40	1.00	0.64	64%								
	168.40	169.04	0.64	0.64	100%	168.40	169.04	0.64	0.64	100%		381	27	crumbly	C	10	N	Coal, crumbly/ dirt like.
	169.04	169.40	0.36	0.00	0%	169.04	169.40	0.36	0.00	0%					LO			
13	169.40	170.40	1.00	0.76	76%	169.40	170.40	1.00	0.76	76%		381	27	crumbly				
	169.40	170.16	0.76	0.76	100%	169.40	170.16	0.76	0.76	100%					C	10	N	Coal aa.
	170.16	170.40	0.24	0.00	0%	170.16	170.40	0.24	0.00	0%					LO			
14	170.40	171.40	1.00	0.10	10%	170.40	171.40	1.00	0.10	10%								
	170.40	170.50	0.10	0.10	100%	170.40	170.50	0.10	0.10	100%		382	32.6	poor	C	10	N	Coal, pulvorised.
	170.50	171.40	0.90	0.00	0%	170.50	171.40	0.90	0.00	0%								
15	171.40	173.00	1.60	1.34	84%	171.40	173.00	1.60	1.34	84%		382	32.6	poor	LO	10	N	Coal pulvorised,mud, some harder chunks, harder near bottom.
Abby	42547.00 D/S					42547.00 D/S												
16	173.00	175.00	2.00	1.60	80%	173.00	175.00	2.00	1.60	80%								
	173.00	173.10	0.10	0.10	100%	173.00	173.10	0.10	0.10	100%				broken	cm		Y	Slickensided, coaly.
	173.10	174.10	1.00	1.00	100%	173.10	174.10	1.00	1.00	100%		383	19.6	B	CO		Y	v. broken sheared, soft, blocky in part, powdery, coal at base.
	174.10	174.60	0.50	0.50	100%	174.10	174.60	0.50	0.50	100%		384	15.4	B	CO		Y	aa, grades into harder muddy more intact coal.
	174.60	175.00	0.40	0.00	0%	174.60	175.00	0.40	0.00	0%					LO			
17	175.00	177.40	2.40	0.82	34%	175.00	177.40	2.40	0.82	34%								Lost most probably coal.
	175.00	175.20	0.20	0.20	100%	175.00	175.20	0.20	0.20	100%		384	15.4	B	CO		Y	v. broken, hard to measure exact length, sheared.
	175.20	175.82	0.62	0.62	100%	175.20	175.82	0.62	0.62	100%				B	CM		Y	v. broken, intact in shoe but had to be broken at, coaly, slickensided frags.
	175.82	177.40	1.58	0.00	0%	175.82	177.40	1.58	0.00	0%					LO			
18	177.40	179.40	2.00	0.00	0%	177.40	179.40	2.00	0.00	0%								Lost 2m run *driller felt it was coal attempted retrieval run with no luck. Mentioned it fely super soft, almost like a void. (Rock parting?)
	177.40	179.40	2.00	0.00	0%	177.40	179.40	2.00	0.00	0%					LO			
19	179.40	180.40	1.00	0.30	30%	179.40	180.40	1.00	0.30	30%								
	179.40	179.60	0.20	0.20	100%	179.40	179.60	0.20	0.20	100%		384	15.4	B	CO		Y	v. broken, soft.
	179.60	179.70	0.10	0.10	100%	179.60	179.70	0.10	0.10	100%				B	MS		Y	Coaly, hard.
	179.70	180.40	0.70	0.00	0%	179.70	180.40	0.70	0.00	0%					LO			
20	180.40	181.40	1.00	0.50	50%	180.40	181.40	1.00	0.50	50%								
	180.40	180.90	0.50	0.50	100%	180.40	180.90	0.50	0.50	100%		385	14.2	B	CO		10 Y	small amt. of HCL reaction v. sheraed, completely broken, soft. *New (old) core bit*
	180.90	181.40	0.50	0.00	0%	180.90	181.40	0.50	0.00	0%					LO			
21	181.40	182.40	1.00	0.90	90%	181.40	182.40	1.00	0.90	90%								
	181.40	182.30	0.90	0.90	100%	181.40	182.30	0.90	0.90	100%		385	14.2	B	CO		10 Y	v. broken seems harder and more intact at bottom, small HCL reaction, sheared, soft.
	182.30	182.40	0.10	0.00	0%	182.30	182.40	0.10	0.00	0%					LO			

22	182.40	183.40	1.00	0.75	75%	182.40	183.40	1.00	0.75	75%						
	182.40	183.15	0.75	0.75	100%	182.40	183.15	0.75	0.75	100%	386	23.4	B	CO	10	Y	Gas bubbles seen, v. broken at top, was more intact in the shoe but fell apart when removed from sample soft, sheared at top, muddy and hard at base.
	183.15	183.40	0.25	0.00	0%	183.15	183.40	0.25	0.00	0%				LO			
23	183.40	185.40	2.00	1.50	75%	183.40	185.40	2.00	1.50	75%						
	183.40	184.15	0.75	0.75	100%	183.40	184.15	0.75	0.75	100%	386	23.4	B	CO	10	Y	Broken, soft, sheared, occ. Hard ms fragments near the middle removed from sample.
	184.15	184.90	0.75	0.75	100%	184.15	184.90	0.75	0.75	100%	387	16.6	B	CO	10	N	Soft, powdery coal, sheared.
	184.90	185.40	0.50	0.00	0%	184.90	185.40	0.50	0.00	0%				LO			
24	185.40	187.40	2.00	1.60	80%	185.40	187.40	2.00	1.60	80%						
	185.40	185.65	0.25	0.25	100%	185.40	185.65	0.25	0.25	100%	387	16.6	B	CO	10	N	Sheared, v. broken, occ. PY seen, soft.
	185.65	186.65	1.00	1.00	100%	185.65	186.65	1.00	1.00	100%	388	16	B	CO	10	N	As above, light brown ms parting fragments near middle, removed and 15cm parting(cm).
	186.65	187.00	0.35	0.35	100%	186.65	187.00	0.35	0.35	100%			B	ms		Y	Broken from shoe, coaly, light brown when scratched.
	187.00	187.40	0.40	0.00	0%	187.00	187.40	0.40	0.00	0%				LO			
25	187.40	189.40	2.00	2.00	100%	187.40	189.40	2.00	2.00	100%						
	187.40	189.40	2.00	2.00	100%	187.40	189.40	2.00	2.00	100%			B	MS		N	Broken w. some harde intact sections, carbonaceaus, ms and coal laminations throughout. 5cm coal stringer near middle. Sheared throughout w. many slickensided fractures.
26	189.40	191.40	2.00	1.80	90%	189.40	191.40	2.00	1.80	90%						
	189.40	189.95	0.55	0.55	100%	189.40	189.95	0.55	0.55	100%			B	ms		N	Sheared, v. jointed, silty at bottom, slickensided surfaces throughout.
	189.95	191.20	1.25	1.25	100%	189.95	191.20	1.25	1.25	100%				slt		N	Jointed, intact but fractured, bottom broken from shoe.
	191.20	191.40	0.20	0.00	0%	191.20	191.40	0.20	0.00	0%				LO			
																	EOH:191.4
																	Fines shaker R341251-273

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole: **LR1CC-07**

Northing: **5502201.00**
Easting: **661209.00**
Elevation: **1394m**

UTM System: NAD83

Run #	Driller's Coring Info				Recovered	
	from	to	Interval	Interval OK	m	%
1	148.00	149.50	1.50		1.20	80%
2	149.50	151.40	1.90	ok	1.75	92%
3	151.40	153.40	2.00	ok	1.60	80%
4	153.40	155.40	2.00	ok	1.80	90%
5	155.40	157.40	2.00	ok	1.79	90%
6	157.40	159.40	2.00	ok	1.70	85%
7	159.40	161.40	2.00	ok	2.10	105%
8	161.40	163.40	2.00	ok	1.31	66%
9	163.40	165.40	2.00	ok	1.76	88%
10	165.40	167.40	2.00	ok	0.00	0%
11	167.40	168.40	1.00	ok	1.10	110%
12	168.40	169.40	1.00	ok	0.64	64%
13	169.40	170.40	1.00	ok	0.76	76%
14	170.40	171.40	1.00	ok	0.10	10%
15	171.40	173.00	1.60	ok	1.34	84%
16	173.00	175.00	2.00	ok	1.60	80%
17	175.00	177.40	2.40	ok	0.82	34%
18	177.40	179.40	2.00	ok	0.00	0%
19	179.40	180.40	1.00	ok	0.30	30%
20	180.40	181.40	1.00	ok	0.50	50%
21	181.40	182.40	1.00	ok	0.90	90%
22	182.40	183.40	1.00	ok	0.75	75%
23	183.40	185.40	2.00	ok	1.50	75%
24	185.40	187.40	2.00	ok	1.60	80%
25	187.40	189.40	2.00	ok	2.00	100%
26	189.40	191.40	2.00	ok	1.80	90%
Total	148.00	191.40	43.40		30.72	71%

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR1CC-07

Northing: 5502201
Easting: 661209
Elevation: 1394m

UTM System: NAD83

Hole Orientation: Vertical
Hole Type: 6 inch/15cm core

Logged by: BL/AC

Property: Loop Ridge
Seam: 10
Total Depth: 191.4m
Date: Jun 25/26, 2016

Cased to: 9m
Core point: At 148m below ground level

Run #	Driller's Coring Info from	to	Interval	Recovered m	%	Interval Corrected to Log from	to	Length (m)	Lost (m)	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
1	148	149.5	1.5	1.2	80%								B	mst		N	Silty mst, broken/sheared.
2	149.5	151.4	1.9	1.75	92%								B	mst		N	aa, carb. Along shear.
	151.4	152.4	1	1	100%								B	mst		N	aa, broken/sheared and sharp
	152.4	153	0.6	0.6	100%						B341372	19.4	Intact	CO	10	N	Coal, powdery/shiny,soft.
	153	153.4	0.4	0.4	100%						372		mud	CO	10	N	Coal, very soft, muddy w. coarse frags. (hard to measure- very muddy)
	153.4	154.4	1	1	100%						373	17	mud	CO	10	N	aa
	154.4	154.8	0.4	0.4	100%						374	22.2	mud	CO	10	N	Coal aa
		156.5		1.1	#DIV/0!						374		soup	CO	10	N	Coal, so fine that it is not core but soupy mud. (Missed on photo)
	156.5			0.68	#DIV/0!						375	24.6	mud	CO	10	N	V. soft but drier.
		157.3		0.82	#DIV/0!						375		intact	CO	10	N	V. soft, slightly drier and some intact core. (Missed photo)
	157.3			0.88	#DIV/0!						376	33.6	crumbly	CO	10	N	Coal aa like dirt. (Missed photo)
				0.62	#DIV/0!						376		crumbly	CO	10	N	Coal, like dirt/crumbly.
				1.49	#DIV/0!						377	27.4	crumbly	CO	10	N	Coal aa w hard section - 30cm.
8	161.4	163.4		1.31	#DIV/0!						378	26.8	crumbly	CO	10	N	Coal, like dirt/ soupy.
				1.56	#DIV/0!						379	31.2	crumbly	CO	10	N	Coal, crumbly/dirt like. (Missed photo)
				0.26	#DIV/0!						380	28.4	crumbly	CO	10	N	Coal aa. (Missed photo)
				1.1	#DIV/0!						382		crumbly	CO	10	N	Coal aa.
				0.64	#DIV/0!						381	27	crumbly	CO	10	N	Coal, crumbly/ dirt like.
13	169.4	170.4		0.76	#DIV/0!						381		crumbly	CO	10	N	Coal aa.
				0.1	#DIV/0!						382	32.6	poor	CO	10	N	Coal, pulvorised.
15	171.4	173		1.34	#DIV/0!						382		poor	CO	10	N	Coal pulvorised,mud, some harder chunks, harder near bottom.
	173	173.1		0.1	#DIV/0!								broken	cm		Y	Slickensided, coaly.
	173.1	174.1		1	#DIV/0!						383	19.6	B	CO		Y	v. broken sheared, soft, blocky in part, powdery, coal at base.
	174.1	174.6		0.5	#DIV/0!						384	15.4	B	CO		Y	aa, grades into harder muddy more intact coal.
	175	175.2		0.2	#DIV/0!						384		B	CO		Y	v. broken, hard to measure exact length, sheared.
				0.62	#DIV/0!								B	CM		Y	v. broken, intact in shoe but had to be broken at, coaly, slickensided frags.
	179.4	179.6		0.2	#DIV/0!						384		B	CO		Y	v. broken, soft.
				0.1	#DIV/0!								B	MS		Y	Coaly, hard.
	180.4	180.9		0.5	#DIV/0!						385	14.2	B	CO	10	Y	small amt. of HCL reaction v. sheraed, completely broken, soft. *New (old) core bit*
	181.4	182.3		0.9	#DIV/0!						385		B	CO	10	Y	v. broken seems harder and more intact at bottom, small HCL reaction, sheared, soft.
	182.4	183.15		0.75	#DIV/0!						386	23.4	B	CO	10	Y	Gas bubbles seen, v. broken at top, was more intact in the shoe but fell apart when removed from sample soft, sheared at top, muddy and hard at base.
	183.4	183.85		0.75	#DIV/0!						386		B	CO	10	Y	Broken, soft, sheared, occ. Hard ms fragments near the middle removed from sample.
	184.15	184.9		0.75	#DIV/0!						387	16.6	B	CO	10	N	Soft, powdery coal, sheared.
	185.4	185.65		0.25	#DIV/0!						387		B	CO	10	N	Sheared, v. broken, occ. PY seen, soft.
	185.65	186.65		1	#DIV/0!						388	16	B	CO	10	N	As above, light brown ms parting fragments near middle, removed and 15cm parting(cm).
	186.65	187		0.35	#DIV/0!								B	ms		Y	Broken from shoe, coaly, light brown when scratched.
	187.4	189.4		2	#DIV/0!								B	MS		N	Broken w. some harde intact sections, carbonaceaus, ms and coal laminations throughout. 5cm coal stringer near middle. Sheared throughout w. many slickensided fractures.
				0.55	#DIV/0!								B	ms		N	Sheared, v. jointed, silty at bottom, slickensided surfaces throughout.
		191.4		1.25	#DIV/0!									slt		N	Jointed, intact but fractured, bottom broken from shoe.
Total	148	191.4	43.4	30.78	71%												
Recovered rock			8.92	8.92	100%												
Recovered coal			34.48	21.86	63%							395.4	52%				

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-08**																
Northing:	5502208.000			**UTM System:**				**Hole Orientation:**		Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m
Easting:	**661209**							**Hole Type:**		6 inch/15cm core			**Seam:**	**10.00**		**Core point:**	**148m**
Elevation:	**1394m**												**Total Depth:**	**193.4m**			
								Logged by:		B.Larson. M.Lennox, H.Evans			**Date:**	**June 27-29**			

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
																		Brian logging----------
1	148.00	149.70	1.70	1.60	94%	148.00	149.70	1.70	1.60	94%								
	148.00	148.30	0.30	0.30	100%	148.00	148.30	0.30	0.30	100%				Broken	**SLT**		**Y**	**V. Broken, Sheared with slickensides, grey and silty**
	148.30	148.45	0.15	0.15	100%	148.30	148.45	0.15	0.15	100%				Broken	**SLT**			As above, more intact
	148.45	148.95	0.50	0.50	100%	148.45	148.95	0.50	0.50	100%				Broken	**SLT/MST**			**broken to a rubble, intermixed MST and SLT**
	148.95	149.60	0.65	0.65	100%	148.95	149.60	0.65	0.65	100%				Broken	**SLT**			very broken, as above SLT
	149.60	149.70	0.10	0.00	0%	149.60	149.85	0.25	0.00	0%					LO			
2	149.70	152.00	2.30	2.30	100%	149.85	152.15	2.30	2.30	100%	45°			Intact	SLT		Y	very competant core with some fractures 45°BCN, fractures with slickenside, sheared surfaces, some calcite infilling, SLT as above
3	152.00	153.40	1.40	1.40	100%	152.15	153.55	1.40	1.40	100%				Broken	SLT			Same as previous runwith very broken zones @ 152.3-152.5 and 152.8-153.1, fractures very sheared with slickensides
4	153.40	156.40	3.00	1.30	43%	153.55	156.40	2.85	1.30	46%		R341389	10.8	Soup				
	153.40	154.70	1.30	1.30	100%	153.55	154.85	1.30	1.30	100%					C	10		coal foam with solids at the bottom ~20cm
	154.70	156.40	1.70	0.00	0%	154.85	156.40	1.55	0.00	0%					LO			
5	156.40	157.40	1.00	0.60	60%	156.40	157.40	1.00	0.60	60%		390	21.8	Frothy/Intact				
	156.40	157.00	0.60	0.60	100%	156.40	157.00	0.60	0.60	100%					C	10		Coal, foamy bottom with 60cm solids, very soft. Dirt like.
	157.00	157.40	0.40	0.00	0%	157.00	157.40	0.40	0.00	0%					LO			
6	157.40	159.40	2.00	1.65	83%	157.40	159.40	2.00	1.65	83%								
	157.40	157.90	0.50	0.50	100%	157.40	157.90	0.50	0.50	100%		390		Intact	C	10		Coal. Soft and dirt like
	157.90	159.05	1.15	1.15	100%	157.90	159.05	1.15	1.15	100%		391	26.2	Intact	C	10		Coal, firm, dull surfaces, shiny cleavage
	159.05	159.40	0.35	0.00	0%	159.05	159.40	0.35	0.00	0%					LO			
7	159.40	161.40	2.00	1.60	80%	159.40	161.40	2.00	1.60	80%								
	159.40	160.40	1.00	1.00	100%	159.40	160.40	1.00	1.00	100%		392	18	Froth/Intact	C	10		Coal, frothy to very soft, like dirt
	160.40	161.00	0.60	0.60	100%	160.40	161.00	0.60	0.60	100%		393	16.6	Intact	C	10		Coal, soft to hard, dull
	161.00	161.40	0.40	0.00	0%	161.00	161.40	0.40	0.00	0%					LO			
8	161.40	163.40	2.00	0.05	3%	161.40	163.40	2.00	0.05	3%		393		Broken				
	161.40	161.45	0.05	0.05	100%	161.40	161.45	0.05	0.05	100%					C	10		Coal, Very soft and dull *nothing to photo
	161.45	163.40	1.95	0.00	0%	161.45	163.40	1.95	0.00	0%					LO			
9	163.40	165.40	2.00	0.80	40%	163.40	165.40	2.00	0.80	40%								
	163.40	164.05	0.65	0.65	100%	163.40	164.05	0.65	0.65	100%		EXCLUDED		Broken	MST			Carb. Mst, black, hard, intact
	164.05	164.20	0.15	0.15	100%	164.05	164.20	0.15	0.15	100%		393		Intact	C	10		Coal, very soft and shiny, sharp contact
	164.20	165.40	1.20	0.00	0%	164.20	165.40	1.20	0.00	0%					LO			
10	165.40	166.40	1.00	0.50	50%	165.40	166.40	1.00	0.50	50%		394	17	mud				
	165.40	165.90	0.50	0.50	100%	165.40	165.90	0.50	0.50	100%					C	10		Coal, vey soft, mud texture
	165.90	166.40	0.50	0.00	0%	165.90	166.40	0.50	0.00	0%					LO			

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
11	166.40	168.00	1.60	1.20	75%	166.40	168.00	1.60	1.20	75%								
	166.40	166.70	0.30	0.30	100%	166.40	166.70	0.30	0.30	100%				broken	MST			black MST parting removed
	166.70	167.10	0.40	0.40	100%	166.70	167.10	0.40	0.40	100%		394		broken	C	10	N	coal, very soft and fragmented
	167.10	167.60	0.50	0.50	100%	167.10	167.60	0.50	0.50	100%		395	32.6	intact	C	10	Y	coal, very hard, dull surface, little fizz
	167.60	168.00	0.40	0.00	0%	167.60	168.00	0.40	0.00	0%					LO			
12	168.00	169.40	1.40	0.75	54%	168.00	169.40	1.40	0.75	54%		395		broken				
	168.00	168.75	0.75	0.75	100%	168.00	168.75	0.75	0.75	100%					C	10	N	Malcolm starts logging. Coal, soft with fragments
	168.75	169.40	0.65	0.00	0%	168.75	169.40	0.65	0.00	0%					LO			
13	169.40	171.40	2.00	0.01	1%	169.40	171.40	2.00	0.01	1%		396	14.6	broken				
	169.40	169.41	0.01	0.01	100%	169.40	169.41	0.01	0.01	100%					C	10	N	Lost entire run, one chunk of solid coal stuck in finger catcher- Py throughout
	169.41	171.40	1.99	0.00	0%	169.41	171.40	1.99	0.00	0%					LO			
14	171.40	173.00	1.60	1.55	97%	171.40	173.00	1.60	1.55	97%								
	171.40	172.40	1.00	1.00	100%	171.40	172.40	1.00	1.00	100%		396		broken/intact	C	10	Y	Switched back to rock catcher. Very broken at top 40 cm, pieces of soft sheared slickensided coal up to 3cm. Bottom 60cm intact, coal gassy throughout with trace pyrite. 0.1 cm intermixed CM parting from 0.4-0.5. CM very broken with fragments of coal, CM has plant fragments between layers- excluded
	172.40	172.95	0.55	0.55	100%	172.40	172.95	0.55	0.55	100%		397	15.4	broken/intact	C	10	Y	coal as above, was intact before being broken out of shoe
	172.95	173.00	0.00	0.00	#DIV/0!	172.95	173.00	0.00	0.00	#DIV/0!					LO			
15	173.00	175.00	2.00	2.10	105%	173.00	175.00	2.00	2.10	105%								
	173.00	173.45	0.45	0.45	100%	173.00	173.45	0.45	0.45	100%		397		broken/intact	C	10	Y	coal very gassy, very fregmented with larger pieces up to 4cm
	173.45	174.45	1.00	1.00	100%	173.45	174.45	1.00	1.00	100%		398	23.4	intact	C	10	Y	same as above
	174.45	175.00	0.55	0.65	118%	174.45	175.00	0.55	0.65	118%		399	16.6	broken/intact	C	10	Y	same as above, bottom was intact before being broken out of shoe. Small 2cm mud clast as base excluded
16	175.00	177.40	2.40	2.20	92%	175.00	177.40	2.40	2.20	92%								
	175.00	175.40	0.40	0.40	100%	175.00	175.40	0.40	0.40	100%		399		broken	C	10	Y	very broken with fragments of coal and larger soft, sheared pieces up to 3cm, gassy
	175.40	175.54	0.14	0.14	100%	175.40	175.54	0.14	0.14	100%		EXCLUDED		Intact	SLT		Y	grey, silty, sharp contact flat lying 0° BCN
	175.54	175.68	0.14	0.14	100%	175.54	175.68	0.14	0.14	100%		400	19.4	Intact	C	10	N	Herd with larger cavities about 1cm from gas
	175.68	175.80	0.12	0.12	100%	175.68	175.80	0.12	0.12	100%		EXCLUDED		broken/intact	C/MST	10	N	intermixed zone
	175.80	176.68	0.88	0.88	100%	175.80	176.68	0.88	0.88	100%		400		Intact	C	10	Y	soft, sheared, dull
	176.68	177.34	0.66	0.66	100%	176.68	177.34	0.66	0.66	100%		251	16.4	broken/intact	C	10	Y	as above, was intact before being broken out of shoe
	177.34	177.40	0.01	0.00	0%	177.34	177.40	0.01	0.00	0%					LO			
17	177.40	179.40	2.00	1.85	93%	177.40	179.40	2.00	1.85	93%								
	177.40	177.78	0.38	0.38	100%	177.40	177.78	0.38	0.38	100%		251		broken	C	10	Y	very broken with fragmented coal and pieces of soft sheared, dull up to 3cm, gassy
	177.78	178.78	1.00	1.00	100%	177.78	178.78	1.00	1.00	100%		252	21.6	broken/intact	C	10	Y	as above, zone of sheared dull coal near middle of sample
	178.78	179.25	0.47	0.47	100%	178.78	179.25	0.47	0.47	100%		253	10.2	broken/intact	C	10	Y	as above, was intact before being broken out of shoe
	179.25	179.40	0.15	0.00	0%	179.25	179.40	0.15	0.00	0%					LO			
18	179.40	181.40	2.00	2.00	100%	179.40	181.40	2.00	2.00	100%								
	179.40	179.93	0.53	0.53	100%	179.40	179.93	0.53	0.53	100%		253		broken/intact	C	10	Y	very broken fragments of coal with soft sheared pieces about 3cm, dull with occasional bright bands in bigger pieces. Very gassy
	179.40	180.40	1.00	1.00	100%	179.40	180.40	1.00	1.00	100%		254	21.8	Intact	C	10	Y	as above with 2cm parting at 180.4. some fractures seen at 70° bcn
	180.40	180.87	0.47	0.47	100%	180.40	180.87	0.47	0.47	100%		255	14.6	broken/intact	C	10	Y	as above broken in shoe
	180.87	181.40	0.53	0.00	0%	180.87	181.40	0.53	0.00	0%					LO			
19	181.40	183.40	2.00	2.00	100%	181.40	183.40	2.00	2.00	100%								
	181.40	181.93	0.53	0.53	100%	181.40	181.93	0.53	0.53	100%		255		Broken	C	10		very broken, very gassy. Pieces 1-5cmin size, dull, soft, sheared
	181.93	182.64	0.71	0.71	100%	181.93	182.64	0.71	0.71	100%	70°	256	21.4	broken/intact	C	10		fragmented coal with pieces up to 5cm, sharp contact with SLT at 70° bcn

Run #	Driller's Depths					Corrected Depths					BCN	Sample #	Sample Mass	Core Quality	Lith Code	Seam	Acid Test	Description
				Recovered					Recovered								Fizz	
	From	To	Interval	m	%	From	To	Interval	m	%			(kg)				Y/N?	
	182.64	182.96	0.32	0.32	100%	182.64	182.96	0.32	0.32	100%	70°	256		Intact	SLT/C	10	Y	grey, silty, very gassy with calcite infilling, fractures at 70° bcn, grades back into coal, 2cm of muddy intermixed band, with coal banding
	182.96	183.21	0.25	0.25	100%	182.96	183.21	0.25	0.25	100%		257	17.4		C	10	Y	Vrery broken coal, as above. Sharp contact with SLT
	183.21	183.40	0.19	0.19	100%	183.21	183.40	0.19	0.19	100%		257			SLT/C	10	Y	as SLT above, very broken, was intact before broken out of shoe
20	183.40	185.40	2.00	1.92	96%	183.40	185.40	2.00	1.92	96%								Hilary starts logging
	183.40	183.96	0.56	0.56	100%	183.40	183.96	0.56	0.56	100%		257		broken/intact	C	10	Y	gassy, blocky chunks amongst compressed powder, bright banding in blocks, friable
	183.96	184.96	1.00	1.00	100%	183.96	184.96	1.00	1.00	100%		258	18.8	broken/intact	C	10	Y	Same as above, crumbled but core is whole
	184.96	185.36	0.40	0.40	100%	184.96	185.36	0.40	0.40	100%		259	10.2	broken/intact	C	10	Y	same as above. Fines sample R341282- from shaker
	185.36	185.40	0.04	0.00	0%	185.36	185.40	0.04	0.00	0%					LO			
21	185.40	187.40	2.00	1.81	91%	185.40	187.40	2.00	1.81	91%								
	185.40	186.00	0.60	0.60	100%	185.40	186.00	0.60	0.60	100%		259		broken	C	10	N	gassy, blocky, hard, dull, sheared
	186.00	186.80	0.80	0.80	100%	186.00	186.80	0.80	0.80	100%		260	26.8	broken	C	10	N	blocky, heavy, sheared and broken, about 2cm mst removed
	186.80	187.00	0.20	0.20	100%	186.80	187.00	0.20	0.20	100%		260		broken	C	10	N	compressed powder with very small mst chunks. About 5cm of rock removed
	187.00	187.21	0.21	0.21	100%	187.00	187.21	0.21	0.21	100%		261	22.4	broken	C	10	N	hard heavy coal, blocky, about 2cm mst removed, some shaley bits. fines sample R341283- from shaker
	187.21	187.40	0.19	0.00	0%	187.21	187.40	0.19	0.00	0%					LO			
22	187.40	189.40	2.00	1.71	86%	187.40	189.40	2.00	1.71	86%								
	187.40	187.97	0.57	0.57	100%	187.40	187.97	0.57	0.57	100%		EXCLUDED		Broken	CM		N	very carbon-rich MST, hard.
	187.97	188.13	0.16	0.16	100%	187.97	188.13	0.16	0.16	100%		261		broken	C	10	N	Flakey, friable, shiny, light coal
	188.13	188.29	0.16	0.16	100%	188.13	188.29	0.16	0.16	100%		EXCLUDED		Intact	CM		N	very carbon rich mst, hard, heavy, brown
	188.29	188.45	0.16	0.16	100%	188.29	188.45	0.16	0.16	100%	70°	261		broken	C	10	N	compressed powder, soft, some heavy MST chunks removed
	188.45	189.11	0.66	0.66	100%	188.45	189.11	0.66	0.66	100%	70°	EXCLUDED		Broken	CM		N	brown carb mud. Some sheared and blocky. Sharp contact at 70°
	189.11	189.40	0.29	0.00	0%	189.11	189.40	0.29	0.00	0%					LO			
23	189.40	191.40	2.00	2.00	100%	189.40	191.40	2.00	2.00	100%								
	189.40	189.60	0.20	0.20	100%	189.40	189.60	0.20	0.20	100%				broken	CM		N	hard and brown
	189.60	189.86	0.26	0.26	100%	189.60	189.86	0.26	0.26	100%		261		broken	C	10		soft, friable, shiny stringer
	189.86	190.01	0.15	0.15	100%	189.86	190.01	0.15	0.15	100%		EXCLUDED		broken	CM			broken sheared brown mst
	190.01	191.40	1.39	1.39	100%	190.01	191.40	1.39	1.39	100%		EXCLUDED		broken/intact	CM			same as above, some intact sections
24	191.40	193.40	2.00	2.00	100%	191.40	193.40	2.00	2.00	100%				intact	CM			solid grey/brown carb mst
																		EOH

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Large Diameter (6") Core Description

Hole:	**LR16CC-09**																	
Northing:	5501927.000			**UTM System:**	NAD83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6	
Easting:	**660783**								**Hole Type:**	6 inch/15cm core			**Seam:**	**20.00**		**Core point:**	**95.7**	
Elevation:	**1394**												**Total Depth:**	**122.6**				
									Logged by:	HE/BL			**Date:**	**June 20 2016**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	95.60	97.25	1.65	1.50	91%													
	97.25	97.65		0.40	100%						45			B	MST/CM		N	MST in some carbonisation. Slickenside on fractured surfaces.
	97.65	97.75		0.10	100%									B	MST/CM		N	Fractured shear zone
	97.75	98.75		1.00	100%									B/I	MST/CM		N	MST in some carb. Fractures at 45 degree fracture zones are friable.
				0.15	0%										Loss			
2	97.25	98.75	1.50	1.46	97%													
	97.25	98.09		0.84	100%						50			B/I	Cm		N	V. shiny and firable along fractured surfaces. Black to brown streak-almost coal.
	98.09	98.13		0.04	0%										Loss			
	98.13	98.71		0.58	100%	98.20	98.78	0.58	0.58	100%	45	R341677	24.4		C	20	N	Very shiny, friable, no distinct contact, bedded at 45 degrees. Some heavy and dull chunks. Note sample interval lengthened after photo.
3	98.75	100.30	1.55	0.68	44%													
	98.75	99.43		0.42	62%	98.78	99.20	0.42	0.42	100%		R341677	24.4	B	C	20	Little	Med shiny, hard, sheared zone - Good!
	99.43	99.85		0.26	62%	99.20	99.46	0.26	0.26	100%		R341678	20	B	C	20	Little	As above
				0.87	0%	99.26	99.59	0.63	0.63	72%					Loss			some recovery in next run
4	100.30	100.60	0.30	0.54	180%													
	100.30	100.84		0.54	100%	99.59	100.13	0.54	0.54	100%		R341678	20	B	C	20	N	Hard, dull, broken and friable in shoe. Light.
5	100.60	102.10	1.50	1.51	101%													
	100.60	100.80		0.20	100%	100.13	100.33	0.20	0.20	100%		R341678	20	I	C	20	Little	Soft to hard, powdery to friable.
	100.80	102.11		1.31	100%	100.33	101.64	1.31	1.31	100%		R341679	27.8	I	C	20	Little	Coal a.a., minor fizzing in harder coal.
6	102.10	103.60	1.50	1.44	96%													
	102.10	103.10		1.00	100%	101.64	102.64	1.00	1.00	100%		R341680	23.2	I	C	20	N	Coal a.a., very soft.
	103.10	103.54		0.44	100%	102.64	103.08	0.44	0.44	100%		R341681	23.8	I	C	20	N	a.a.
				0.06	0%	103.08	103.12	0.04	0.04	67%					loss			some recovery in run previous and next runs
7	103.60	105.10	1.50	1.51	101%													
	103.60	104.20		0.60	100%	103.12	103.72	0.60	0.60	100%		R341681	23.8	I	C	20	N	Coal, soft, flakey.
	104.20	105.11		0.91	100%	103.72	104.63	0.91	0.91	100%		R341682	20.2	I	C	20	Little	Hard with med. Fizz to soft/powdery.

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
8	105.10	106.60	1.50	1.35	90%													
	105.10	106.10		1.00	100%	104.63	105.63	1.00	1.00	100%		R341683	24	I	C	20	N	Very soft, cuts like butter.
	106.10	106.45		0.35	100%	105.63	105.98	0.35	0.35	100%		R341684	20.6	I	C	20	N	a.a.
				0.15	0%	105.98	106.13	0.15	0.00	0%					loss			
9	106.60	108.10	1.50	1.00	67%													Driller's recovery poor? Next interval cut 1m to recover bottom?
	106.60	107.25		0.65	100%	106.13	106.78	0.65	0.65	100%		R341684	20.6		C	20	Little	Variable consistency, blocky, hard to soft powder, little fizz.
	107.25	107.60		0.35	100%	106.78	107.13	0.35	0.35	100%		R341685	25.4		C	20	Little	a.a.
				0.50	0%	107.13	107.63	0.50	0.00	0%					loss			
10	108.10	109.10	1.00	0.80	80%													
	108.10	108.79		0.69	100%	107.63	108.32	0.69	0.69	100%		R341685	25.4		C	20	N	Hard/flakey.
	108.79	108.90		0.11	100%	108.32	108.43	0.11	0.11	100%		R341686	21.6		C	20	N	a.a.
				0.20	0%	108.43	108.63	0.20	0.00	0%					loss			
11	109.10	110.60	1.50	1.39	93%													
	109.10	109.95		0.85	100%	108.63	109.48	0.85	0.85	100%		R341686	21.6	I	C	20	N	Soft, you can stick a knife blade in full length. Shiny.
	109.95	110.49		0.54	100%	109.48	110.02	0.54	0.54	100%		R341687	21	I	C	20	N	a.a., minor 1cm parting removed.
				0.11	0%	110.02	110.13	0.11	0.00	0%					loss			
12	110.60	112.10	1.50	1.43	95%													
	110.60	111.10		0.50	100%	110.13	110.63	0.50	0.50	100%		R341687	21	I	C	20	N	Variable consistency, soft to firm.
	111.10	112.03		0.93	100%	110.63	111.56	0.93	0.93	100%		R341688	21.4	I	C	20	N	a.a.
				0.07	0%	111.56	111.63	0.07	0.00	0%					loss			
13	112.10	113.60	1.50	1.17	78%													
	112.10	113.27		1.17	100%	111.63	112.80	1.17	1.17	100%		R341689	28.4	I	C	20	N	soft and shiny, few minor partings removed ~2cm.
				0.33	0%	112.80	113.13	0.33	0.00	0%					loss			
14	113.60	115.10	1.50	1.49	99%													
	113.60	114.60		1.00	100%	113.13	114.13	1.00	1.00	100%		R341690	22.6	I	C	20	N	soft and bright.
	114.60	115.09		0.49	100%	114.13	114.62	0.49	0.49	100%		R341691	20	I	C	20	Little	a.a., minor fizz at top.
				0.01	0%	114.62	114.63	0.01	0.00	0%					loss			
15	115.10	116.60	1.50	1.40	93%													
	115.10	115.61		0.51	100%	114.63	115.14	0.51	0.51	100%		R341691	20	I	C	20	Y	firm/shiny, little fizz.
	115.61	116.50		0.89	100%	115.14	116.03	0.89	0.89	100%		R341692	21	I	C	20	Y	a.a.
				0.10	0%	116.03	116.13	0.10	0.05	50%					loss			some recovery in next run
16	116.60	118.10	1.50	1.55	103%													
	116.60	117.60		1.00	100%	116.13	117.13	1.00	1.00	100%		R341693	22.8	I	C	20	Y	a.a., little fizzy. Missed top 60cm in photo.

Run #	Driller's Depths					Corrected Depths					BCN	Sample #	Sample Mass	Core Quality	Lith Code	Seam	Acid Test	Description
				Recovered					Recovered								Fizz	
	From	To	Interval	m	%	From	To	Interval	m	%			(kg)				Y/N?	
	117.60	118.15		0.55	100%	117.13	117.68	0.55	0.55	100%		R341694	18.4	I	C	20	Y	Coal a.a.
17	118.10	119.60	1.50	1.39	93%													
				0.11	0%	117.68	117.79	0.11	0.08	73%					loss			some recovery in previous and next runs
	118.10	118.51		0.30	73%	117.79	118.09	0.30	0.30	100%		R341694	18.4	I	C	20		Firm/shiny.
	118.51	119.60		1.09	100%										MST			Carb. Mudstone, sharp contact, possible shearing and coal lenses. Coal fragments, slickensides.
18	119.60	121.10	1.50	1.58	105%													
	119.60	121.03		1.43	100%									I	MST			Carb. Mudstone a.a.
	121.03	121.18		0.15	100%										C			Coal stringer.
19	121.10	122.60	1.50	1.50	100%													
	121.10	122.60		1.50	100%										CM			Multiple thin coal stringers.

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Large Diameter (6") Core Description

Hole:	**LR16CC-09**					
Northing:	5501927.00				**UTM System:**	NAD83
Easting:	**660783.00**					
Elevation:	**1394.00**					

	Driller's Coring Info					
					Recovered	
Run #	from	to	Interval	Interval OK	m	%
1	95.60	97.25	1.65		1.50	91%
2	97.25	98.75	1.50	ok	1.46	97%
3	98.75	100.30	1.55	ok	0.68	44%
4	100.30	100.60	0.30	ok	0.54	180%
5	100.60	102.10	1.50	ok	1.51	101%
6	102.10	103.60	1.50	ok	1.44	96%
7	103.60	105.10	1.50	ok	1.51	101%
8	105.10	106.60	1.50	ok	1.35	90%
9	106.60	108.10	1.50	ok	1.00	67%
10	108.10	109.10	1.00	ok	0.80	80%
11	109.10	110.60	1.50	ok	1.39	93%
12	110.60	112.10	1.50	ok	1.43	95%
13	112.10	113.60	1.50	ok	1.17	78%
14	113.60	115.10	1.50	ok	1.49	99%
15	115.10	116.60	1.50	ok	1.40	93%
16	116.60	118.10	1.50	ok	1.55	103%
17	118.10	119.60	1.50	ok	1.39	93%
18	119.60	121.10	1.50	ok	1.58	105%
19	121.10	122.60	1.50	ok	1.50	100%
Total	95.60	122.60	27.00		24.69	91%

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Large Diameter (6") Core Description

Hole:	**LR16CC-09**																
Northing:	5501927.00			**UTM System:**	NAD83			**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6	
Easting:	**660783.00**							**Hole Type:**	6 inch/15cm core			**Seam:**	**20.00**		**Core point:**	**95.7**	
Elevation:	**1394.00**											**Total Depth:**	**122.6**				
								Logged by:	HE/BL			**Date:**	**June 20 2016**				

	Driller's Coring Info					Interval Corrected to Log						Sample Mass		Lith Code	Seam	Acid Test	
				Recovered												Fizz	
Run #	from	to	interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
	97.25	97.65	0.40	0.40	100%					45			B	MST/CM		N	MST in some carbonisation. Slickenside on fractured surfaces.
	97.65	97.75	0.10	0.10	100%								B	MST/CM		N	Fractured shear zone
	97.75	98.75	1.00	1.00	100%								B/I	MST/CM		N	MST in some carb. Fractures at 45 degree fracture zones are friable.
	97.25	98.09	0.84	0.84	100%					50			B/I	Cm		N	V. shiny and firable along fractured surfaces. Black to brown streak-almost coal.
	98.13	98.71	0.58	0.58	100%					45	R341677	24.40		C	20	N	Very shiny, friable, no distinct contact, bedded at 45 degrees. Some heavy and dull chunks. Note sample interval lengthened after photo.
	98.75	99.43	0.68	0.42	62%						R341677		B	C	20	Little	Med shiny, hard, sheared zone - Good!
	99.43	99.85	0.42	0.26	62%						R341678	20.00	B	C	20	Little	As above
	100.30	100.84	0.54	0.54	100%						R341678		B	C	20	N	Hard, dull, broken and friable in shoe. Light.
			0.00	0.20	#DIV/0!						R341678		I	C	20	Little	Soft to hard, powdery to friable.
			0.00	1.31	#DIV/0!						R341679	27.80	I	C	20	Little	Coal a.a., minor fizzing in harder coal.
			0.00	1.00	#DIV/0!						R341680	23.20	I	C	20	N	Coal a.a., very soft.
			0.00	0.44	#DIV/0!						R341681	23.80	I	C	20	N	a.a.
			0.00	0.60	#DIV/0!						R341681		I	C	20	N	Coal, soft, flakey.
			0.00	0.91	#DIV/0!						R341682	20.20	I	C	20	Little	Hard with med. Fizz to soft/powdery.
			0.00	1.00	#DIV/0!						R341683	24.00	I	C	20	N	Very soft, cuts like butter.
			0.00	0.35	#DIV/0!						R341684	20.60	I	C	20	N	a.a.
			0.00	0.65	#DIV/0!						R341684			C	20	Little	Variable consistency, blocky, hard to soft powder, little fizz.
			0.00	0.35	#DIV/0!						R341685	25.40		C	20	Little	a.a.
			0.00	0.69	#DIV/0!						R341685			C	20	N	Hard/flakey.
			0.00	0.15	#DIV/0!						R341686	21.60		C	20	N	a.a.
			0.00	0.85	#DIV/0!						R341686		I	C	20	N	Soft, you can stick a knife blade in full length. Shiny.
			0.00	0.54	#DIV/0!						R341687	21.00	I	C	20	N	a.a., minor 1cm parting removed.
			0.00	0.50	#DIV/0!						R341687		I	C	20	N	Variable consistency, soft to firm.
			0.00	0.93	#DIV/0!						R341688	21.40	I	C	20	N	a.a.
			0.00	1.17	#DIV/0!						R341689	28.40	I	C	20	N	soft and shiny, few minor partings removed ~2cm.
			0.00	1.00	#DIV/0!						R341690	22.60	I	C	20	N	soft and bright.
			0.00	0.49	#DIV/0!						R341691	20.00	I	C	20	Little	a.a., minor fizz at top.
			0.00	0.51	#DIV/0!						R341691		I	C	20	Y	firm/shiny, little fizz.
			0.00	0.89	#DIV/0!						R341692	21.00	I	C	20	Y	a.a.
			0.00	1.00	#DIV/0!						R341693	22.80	I	C	20	Y	a.a., little fizzy. Missed top 60cm in photo.
			0.00	0.55	#DIV/0!						R341694	18.40	I	C	20	Y	Coal a.a.

Run #	Driller's Coring Info			Recovered		Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	from	to	interval	m	%	from	to										
			0.00	0.30	#DIV/0!						R341694		I	C	20		Firm/shiny.
			0.00	1.09	#DIV/0!									MST			Carb. Mudstone, sharp contact, possible shearing and coal lenses. Coal fragments, slickensides.
			0.00	1.43	#DIV/0!								I	MST			Carb. Mudstone a.a.
			0.00	0.15	#DIV/0!									CM			Coal stringer.
			0.00	1.50	#DIV/0!									CM			Multiple thin coal stringers.
Total	95.60	122.60	27.00	24.69	91%												
Recovered rock			6.51	6.51	100%												
Recovered coal			20.49	18.18	89%							406.60	90%				

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Large Diameter (6") Core Description

Hole:	**LR16CC-10**																	
Northing:	5501942.50			**UTM System:**	NAD83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	15	
Easting:	**660786.00**								**Hole Type:**	6 inch/15cm core			**Seam:**	**20.00**		**Core point:**	**95**	
Elevation:	**1355.00**												**Total Depth:**	**123.5**				
									Logged by:	ML/BL			**Date:**	**July 8/9 2016**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	95.00	96.50	1.50	1.50	100%													
	95.00	95.15	0.15	0.15	100%						45			B/I	MS/SLT		N	Thin bedding MS/SLT, bedding and jointing at 45 degrees BCN, PY on jointed SLT surfaces, calcite infilling not seen.
	95.15	96.50	1.35	1.35	100%						45			B/I	MS		N	Brown, soft, sheared. Fault gouge and clays on joints. Uniform bedding, laminations at 45 degrees (same as joints).
2	96.50	98.00	1.50	1.50	100%													
	96.50	96.95	0.45	0.45	100%						45			B/I	MS		N	MS a.a.
	96.95	97.28	0.33	0.33	100%									B	MS		N	Very sheared, MS flakey with some fault gouge clays.
	97.28	98.00	0.72	0.72	100%						45			B/I	MS		N	MS a.a., some bands ~3-6cm thick of very broken sheared MS with fault gouge clays.
3	98.00	99.50	1.50	1.40	93%													
	98.00	98.67	0.67	0.67	100%									B/I	MS		N	Suspected loss at top. Top 30cm very broken MS, soft, sheared, flakey. Sharp contact with competent MS bottom 37cm harder with quartz infilling.
	98.67	98.87	0.20	0.20	100%									B	MS		N	Very fractured, MS, soft, sheared, flakey, faulted zone/fault gouge clays.
	98.87	98.97	0.10	0.10	100%									B	CM		N	Grades into CM/fault gouge clays.
	98.97	99.40	0.43	0.43	100%									B/I	MS		N	MS a.a., broken at bottom.
	99.40	99.50	0.10	0.00	0%													loss
4	99.50	101.00	1.50	1.40	93%													
	99.50	101.00	1.50	1.40	93%						45				MS		N	MS a.a. 2cm coal stringer at 99.8m, small fracture zone.
5	101.00	102.50	1.50	1.45	97%													
	101.00	101.85	0.85	0.85	100%	101.00	101.85	0.85	0.85	100%		R341289		B	CM/CO	20	N	Soupy fines at top. Broken intermixed zone. Mostly CM with blocky pieces of CO ~1-3cm in size. Selectively sampled.
	101.85	102.45	0.60	0.55	92%	101.85	102.45	0.60	0.55	92%		R341289	23	I	CO	20	N	Sharp contact with Co at 45 degrees BCN. CO soft, sheared, dull, with bright bands and pieces, clean. Only broken at bottom from shoe.
6	102.50	104.00	1.50	0.00	0%	102.50	104.00	1.50	0.00	0%								Lost run. Backt to 10 seam drilling method.
7	104.00	105.50	1.50	1.38	92%	104.00	105.50	1.50	1.38	92%								
	104.00	105.00	1.00	1.00	100%	104.00	105.00	1.00	1.00	100%		290	17.2	B/I	CO	20	Y	Very soft, dull and sheared. Broken at top 25cm with frags of coal. CO intact as well, very gassy, med reaction to HCL. Clean coal.
	105.00	105.38	0.38	0.38	100%	105.00	105.38	0.38	0.38	100%		291		B/I	CO	20	Y	CO a.a., broken out of shoe, a few mudclasts in the lower run.
	105.38	105.50	0.12	0.00	0%	105.38	105.50	0.12	0.00	0%								loss
8	105.50	107.00	1.50	1.50	100%	105.50	107.00	1.50	1.50	100%						20		
	105.50	106.12	0.62	0.62	100%	105.50	106.12	0.62	0.62	100%		291	19.6	B/I	CO	20	Y	Very gassy. CO a.a.
	106.12	107.00	0.88	0.88	100%	106.12	107.00	0.88	0.88	100%		292		B/I	CO	20	Y	a.a., 106.44-106.62m CO very hard.
9	107.00	108.50	1.50	0.30	20%	107.00	108.50	1.50	0.30	20%								
	107.00	107.30	0.30	0.30	100%	107.00	107.30	0.30	0.30	100%		292	22	B	CO	20	N	Very soupy with some broken pieces 1-3cm and fg. Coal. Gassy, loss in ultrafine area. Soupy material left in the core barrel, not in photo - drained with rice bag then sampled ultrafines.

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	107.30	108.50	1.20	0.00	0%	107.30	108.50	1.20	0.00	0%								loss
10	108.50	110.00	1.50	1.33	89%	108.50	110.00	1.50	1.33	89%								
	108.50	109.50	1.00	1.00	100%	108.50	109.50	1.00	1.00	100%		293	15.8	B/I	CO	20	Y	Coal very fragmented, intermixed with larger pieces ~3cm, dull, very soft sheared. Weak HCL reaction, gassy.
	109.50	109.83	0.33	0.33	100%	109.50	109.83	0.33	0.33	100%		294		B/I	CO	20	Y	a.a.
	109.83	110.00	0.17	0.00	0%	109.83	110.00	0.17	0.00	0%								loss
11	110.00	111.50	1.50	1.50	100%	110.00	111.50	1.50	1.50	100%						20		
	110.00	110.70	0.70	0.70	100%	110.00	110.70	0.70	0.70	100%		294	18.8	B	CO	20		CO a.a.
	110.70	110.90	0.20	0.20	100%	110.70	110.90	0.20	0.20	100%		295		Soupy	CO	20		Ultrafines.
	110.90	111.50	0.60	0.60	100%	110.90	111.50	0.60	0.60	100%		295		B	CO	20		Co same as top or run (ultrafines sandwiched in). Labelled wrong - depths/run on photo.
12	111.50	113.00	1.50	1.60	107%	111.50	113.00	1.50	1.60	107%								
	111.50	111.60	0.10	0.20	200%	111.50	111.60	0.10	0.20	200%		295	15.6	Soupy	CO	20		Ultrafines at top. Broken. Very fragmented coal.
	111.70	112.70	1.00	1.00	100%	111.70	112.70	1.00	1.00	100%		296	22.6	B/I	CO	20		Co harder with fragments of coal intermixed around. Very gassy. Med/. HCL reaction.
	112.70	113.10	0.40	0.40	100%	112.70	113.10	0.40	0.40	100%		297		B/I	CO	20		CO a.a.
13	113.10	114.50	1.40	0.40	29%	113.00	114.50	1.50	0.40	27%								
	113.10	113.50	0.40	0.40	100%	113.00	114.50	1.50	0.40	27%		297	12.2	B/I	CO	20		CO a.a. Suspected loss at bottom , driller suggested it felt like nothing there.
	113.50	114.50	1.00	0.00	0%	113.50	114.50	1.00	0.00	0%								loss
14	114.50	116.00	1.50	0.00	0%	114.50	116.00	1.50	0.00	0%								Lost entire run.
15	116.00	117.50	1.50	1.45	97%	116.00	117.50	1.50	1.45	97%								
	116.00	117.00	1.00	1.00	100%	116.00	117.00	1.00	1.00	100%		298	20.8	B/I	CO	20	Y	Top 30cm very broken, soft, dull, sheared, becoming harder towards the end of the run. Very gassy,
	117.00	117.45	0.45	0.45	100%	117.00	117.45	0.45	0.45	100%		299			CO	20		CO a.a.
	117.45	117.50	0.05	0.00	0%	117.45	117.50	0.05	0.00	0%								loss
16	117.50	119.00	1.50	1.97	131%	117.50	119.00	1.50	1.97	131%						20		picked up previous coal?
	117.50	118.00	0.50	0.70	140%	117.50	118.00	0.50	0.70	140%		299	21	B/I	CO	20	Y	Very hard CO, very gassy with vugs. Dull with bright bands.
	118.00	118.80	0.80	1.00	125%	118.00	118.80	0.80	1.00	125%		300	18.2	Soupy	CO	20	Y	Top 20cm ultrafines (soupy), bottom to end of run CO med hardness, very gassy with vugs.
	118.80	119.00	0.20	0.23	115%	118.80	119.00	0.20	0.23	115%		D144723		B	CO	20	Y	
17	119.00	120.50	1.50	1.80	120%	119.00	120.50	1.50	1.80	120%								Picking up previous missed run?
	119.00	119.73	0.73	0.73	100%	119.00	119.73	0.73	0.73	100%		D144723		B/I	CO	20	Y	Harder very gassy with vugs, broken. Dull.
	119.73	119.74	0.01	0.02	200%	119.73	119.74	0.01	0.02	200%		D144723	19.6	Soupy	CO	20		Ultrafines
	119.74	120.50	0.76	0.82	108%	119.74	120.50	0.76	0.82	108%		D144724	20.2	B/I	CO	20	Y	CO a.a. the ultrafines section.
18	120.50	122.00	1.50	1.35	90%	120.50	122.00	1.50	1.35	90%								
	120.65	121.20	0.55	0.55	100%	120.65	121.20	0.55	0.55	100%		D144725	11.6	B/I	CO	20	Y	Firm, dull, on core surface, shiny on cleavage.
	121.20	122.00	0.80	0.80	100%	121.20	122.00	0.80	0.80	100%					MST			MSt with carb. Partings, fractured. Normal to sharp contact.
19	122.00	123.50	1.50	1.50	100%	122.00	123.50	1.50	1.50	100%								
				1.50					1.50						MST			With coal/carb. partings.

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Large Diameter (6”) Core Description

Hole:	**LR16CC-10**					
Northing:					**UTM System:**	
Easting:						
Elevation:						

	Driller's Coring Info					
					Recovered	
Run #	from	to	interval	interval OK	m	%
1	95.00	96.50	1.50		1.50	100%
2	96.50	98.00	1.50	ok	1.50	100%
3	98.00	99.50	1.50	ok	1.40	93%
4	99.50	101.00	1.50	ok	1.40	93%
5	101.00	102.50	1.50	ok	1.45	97%
6	102.50	104.00	1.50	ok	0.00	0%
7	104.00	105.50	1.50	ok	1.38	92%
8	105.50	107.00	1.50	ok	1.50	100%
9	107.00	108.50	1.50	ok	0.30	20%
10	108.50	110.00	1.50	ok	1.33	89%
11	110.00	111.50	1.50	ok	1.50	100%
12	111.50	113.00	1.50	ok	1.60	107%
13	113.00	114.50	1.50	ok	0.40	27%
14	114.50	116.00	1.50	ok	0.00	0%
15	116.00	117.50	1.50	ok	1.45	97%
16	117.50	119.00	1.50	ok	1.97	131%
17	119.00	120.50	1.50	ok	1.57	105%
18	120.50	122.00	1.50	ok	1.35	90%
Total	95.00	122.00	27.00		21.60	80%

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-10**															
Northing:				**UTM System:**				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	
Easting:								**Hole Type:**	6 inch/15cm core			**Seam:**			**Core point:**	
Elevation:												**Total Depth:**				
								Logged by:				**Date:**				

	Driller's Coring Info					Interval Corrected to Log						Sample Mass		Lith Code	Seam	Acid Test	
				Recovered												Fizz	
Run #	from	to	interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
	95.00	95.15	0.15	0.15	100%									**MS/SLT**			
	95.15	96.50	1.35	1.35	100%									MS/SLT			
	96.50	96.75	0.25	0.45	180%									MS			
	96.75	97.18	0.43	0.33	77%									MS			
	97.18	98.00	0.82	0.72	88%									MS			
	98.00	98.67	0.67	0.67	100%									MS			
	98.67	98.87	0.20	0.20	100%									MS			
	98.87	98.97	0.10	0.10	100%									CM			
	98.97	99.40	0.43	0.43	100%									MS			
	99.50	101.00	1.50	1.40	93%									MS			
	101.00	101.85	0.85	0.85	100%						R341289			CM/CO			
	101.85	102.45	0.60	0.55	92%						R341289			CO			
	104.00	105.00	1.00	1.00	100%						290			CO			
	105.00	105.38	0.38	0.38	100%						291			CO			
	105.50	106.12	0.62	0.62	100%						291			CO			
	106.12	107.00	0.88	0.88	100%						292			CO			
	107.00	108.50	1.50	0.30	20%						292			CO			
	108.50	109.50	1.00	1.00	100%						293			CO			
	109.50	109.83	0.33	0.33	100%						294			CO			
	110.00	110.70	0.70	0.70	100%						294			CO			
	110.70	110.90	0.20	0.20	100%						295			CO			
	110.90	111.50	0.60	0.60	100%						295			CO			
	111.50	111.70	0.20	0.20	100%						295			CO			
	111.70	112.70	1.00	1.00	100%						296			CO			
	112.70	113.10	0.40	0.40	100%						297			CO			
	113.00	114.50	1.50	0.40	27%						297			CO			
			0.00	1.00	#DIV/0!						298			CO			
			0.00	0.45	#DIV/0!						299			CO			
			0.00	0.70	#DIV/0!						299			CO			
			0.00	1.00	#DIV/0!						300			CO			
			0.00	0.23	#DIV/0!						D144723			CO			
			0.00	0.73	#DIV/0!						D144723			CO			
			0.00	0.02	#DIV/0!						D144723			CO			

Run #	Driller's Coring Info			Recovered		Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	from	to	interval	m	%	from	to										
			0.00	0.82	#DIV/0!						724			CO			
	120.65	121.20	0.55	0.55	100%						725			CO			
	121.20	122.00	0.80	0.80	100%									MST			
Total	95.00	122.00	27.00	21.51	80%												
Recovered rock			7.45	7.45	100%												
Recovered coal			19.55	14.06	72%							278	65%				

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-11**																	
Northing:	5501156.000			**UTM System:**	NAD 83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	**661148**								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**24m**	
Elevation:	**1486m**												**Total Depth:**	**30.5**				
									Logged by:	Brian Larsen			**Date:**	**2016-06-15**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	24.10	24.50		0.37														
	24.20	24.50		0.30		23.90	24.20		0.30			R340141		intact	**C**	**18.00**	**N**	**Coal, top of 18 seam**
2	24.50	26.00		1.68														
	24.50	25.10		0.63		24.20	24.83		0.63			R340141	24.2	intact	C	18		Coal, shiny, w minor partings
	25.10	26.20		1.05		24.83	25.88		1.05			R340142	28	intact	C	18		coal a.a.
3	26.00	27.50		1.50														
	26.20	27.20		1.00		25.88	26.88		1.00			R340143	25.6	intact	C	18		coal a.a.
	27.20	27.70		0.50		26.88	27.38		0.50			R340144						coal w minor partings, 10cm parting at top of sample interval removed
4	27.50	29.00		1.31														
	27.70	28.30		0.60		27.38	27.98		0.60			R340144	23.6	intact	C	18		coal harder blockier, significant brightness, some cleats visible
	28.30	29.00		0.71		27.98	28.69		0.71			R340145	17.88	intact	C	18		coal softer than above, transitioning from hard blocky coal about 25cm thick, becoming sheared and flaky
5	29.00	30.50		1.60														
				1.60														45 degree bedding angle, distinct transition from coal at the fw contact, 5cm carb. Mst, 30cm mst w plant frags, coarsening downwards to slt
													119.28					

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Large Diameter (6") Core Description

Hole:	**LR16CC-12**																	
Northing:	5501155			**UTM System:**	NAD 83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	5m	
Easting:	661148								**Hole Type:**	6 inch/15cm core			**Seam:**	**18**		**Core point:**	**24.0m**	
Elevation:													**Total Depth:**	**31.7m**				
									Logged by:	Hilary Evans			**Date:**	**15-Jun-16**				

	Driller's Depths					Corrected Depths							Sample Mass					Acid Test	
				Recovered					Recovered									Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality	Lith Code	Seam		Y/N?	Description
1	24.00	24.40		0.38										Intact	CM				CM mostly intact with small coaly stringers, friable
				0.02						0.02				Loss					
2	24.40	25.10		0.59															
	24.40	24.70		0.30							47°			Broken	CM				Small coaly stringers
	24.70	24.99		0.29		24.80	25.09		0.29			R340**146**	17.0	Intact	C	18			Compressed powdery coal, shiny, flakey *sample is a little dirty
	24.99	25.10		0.12		25.09	25.21		0.12	0.115				Loss					
3	25.10	25.60		0.43															
	25.10	25.53		0.43		25.21	25.64		0.43			**146**		Intact	C	18		N	Shiny, easily broken, sheared, small partings <1cm, smells like sulfur
	25.53	25.60		0.07															
4	25.60	27.10		1.49															
	25.60	25.98		0.38		25.64	26.02		0.38			**147**	19.2	Intact	C	18		Y	Hard, blocky coal , ~20cm parting removed from sample
	25.98	26.60		0.62		26.02	26.64		0.62			**147**		Intact	C	18		Y	Soft, some small dirty partings, compacted powder
	26.60	27.09		0.49		26.64	27.13		0.49			**148**	23.6	Intact	C	18		N	Shiny, sheared, some small dirty partings
				0.01						0.01				Loss					
5	27.10	27.40		0.39															
	27.10	27.49		0.39		27.13	27.52		0.39			**148**		Intact	C	18		Y	Hard coal with some dirty partings, heavy, sheared
6	27.40	28.70		1.31															
	27.40	27.80		0.40		27.52	27.92		0.40			**149**	22.6	Intact	C	18		N	Blocky, hard, sheared, shiny, heavy
	27.80	28.40		0.60		27.92	28.52		0.60			**149**		Intact	C	18		N	Dull, compressed powder, small partings, ~10cm parting removed from sample
	28.40	28.71		0.31		28.52	28.83		0.31			**150**	25.0	Intact	C	18		N	Easily broken, crispy, shiny
7	28.70	30.20		1.49															
	28.70	29.60		0.90		28.83	29.73		0.90			**150**		Intact	C	18		N	Sheared, ~25 cm parting removed from sample, heavy, slicken side, dull
	29.60	30.19		0.59							40°			Intact	CM				mostly intact, mud/siltstone, brown and grey, distinct contact
8	30.20	31.70		1.55							45°			Intact	CM				Hard mudstone with smallamount of carbonization, fractures at 45°
																			EOH

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Large Diameter (6") Core Description

Hole:	**LR16CC-13**																	
Northing:	5501156.000			**UTM System:**				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	**661148**							**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**24m**	
Elevation:	**1486m**											**Total Depth:**	**34.45**				
								Logged by:	Brian Larsen			**Date:**					

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass				Fizz	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality	Lith Code	Seam	Y/N?	Description
1	24.00	24.50		0.32														
				0.28											**slt**		**N**	
				0.04														coal stringer
2	24.50	26.00		1.44														
				1.03											mst			
				0.05											c		N	coal stringer
				0.36											mst			
3	26.00	27.50		1.65														
				0.96											mst/cly			soft brownish mud, sharp contact w coal
	26.80	27.50		0.69		26.70	27.39		0.69			R340151		intact	C	18	N	coal, soft and flaky
4	27.50	29.00		1.48														
	27.50	27.80		0.30		27.39	27.69		0.30			R340151	26.4	intact	C	18	N	coal, powdery to flaky, w minor partings
	27.80	28.50		0.68		27.69	28.37		0.68			R340152						coal, bright, blocky and fairly hard
	28.50	28.61		0.11		28.37	28.48		0.11			excl.						11cm parting removed
	28.61	29.00		0.39		28.48	28.87		0.39			R340152	27	intact	C	18	N	coal a.a.
5	29.00	30.50		1.48														
	29.00	30.00		1.00		28.87	29.87		1.00			R340153	25.6	intact	C	18	N	coal a.a.
	30.00	30.48		0.48		29.87	30.35		0.48			R340154		intact	C	18	N	coal a.a.
6	30.50	32.00		1.42														
	30.48	30.98		0.50		30.35	30.85		0.50			R340154	22.4	intact	C	18	N	coal a.a.
	30.98	31.90		0.92		30.85	31.77		0.92			R340155	22	intact	C	18	N	coal a.a.
7	32.00	33.50		1.47														

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
	31.90	32.42		0.52		31.77	32.29		0.52			R340156	11		C	18	N	coal, harder and blocky, broken at the contact w fw, sharp transition to fw
				0.95											mst			
													134.4					

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Large Diameter (6") Core Description

Hole:	**LR16CC-14**																	
Northing:	5501149			**UTM System:**	NAD 83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	661145								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**25.75m**	
Elevation:	**1486m**												**Total Depth:**	**34.25**				
									Logged by:	Hilary Evans			**Date:**	**16-Jun-16**				

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
																		Driller noticed cole before expected core point
1	25.70	27.20		1.61														
	25.70	26.18		0.48										Broken	CM		N	Mudstone with coal stringers, big chunk of core missing but no loss on run
	26.18	26.46		0.28														
	26.46	27.31		0.85							55°			Broken	CM		N	Mudstone with ~10 cm coaly stringers
2	27.20	28.70		1.45														
	27.20	27.68		0.48		27.30	27.78		0.48			R340157		Intact	C	18	N	shiny, sheared, easily broken, heavy, blocky
	27.68	27.88		0.20		27.78	27.98		0.20					Intact	CM		N	~20cm parting, Heavy, brown streak, removed from sample
	27.88	28.40		0.52		27.98	28.50		0.52			157	20.2	Intact	C	18	N	flakey, sheared, blocky, very shiny surfaces
	28.40	28.65		0.25		28.50	28.75		0.25			158	25.0	Broken	C	18	N	very shiny, blocky, easily broken
				0.05					0.05					Loss				
3	28.70	30.20		1.46														
	28.70	28.85		0.15		28.75	28.90		0.15					Broken	C/CM	18		Very hard and heavy, black streak, dull
	28.85	29.60		0.75		28.90	29.65		0.75			158		Intact	C	18		Blocky, hard, some compacted powder * sample is a little dirty
	29.60	30.16		0.56		29.65	30.21		0.56			159	19.2	Intact	C	18	N	Very shiy, hard, 2 ~2cm mudstone partings removed from sample
				0.04					0.04					loss				
4	30.20	31.70		1.45														
	31.70	30.55		0.35		30.21	30.56		0.35					Intact	CM		N	Muddy parting
	30.55	30.92		0.37		30.56	30.93		0.37			159		Intact	C	18	N	blocky coal, friable
	30.92	31.04		0.12		30.93	31.05		0.12					Intact	C/CM		N	Coal with ~1cm partings
	31.04	31.65		0.61		31.05	31.66		0.61			160	16.6	Intact	C	18	N	blocky, easily broken, some hard chunks, some compressed powder, shiny
				0.05					0.05					loss				
5	31.70	33.25		1.70														
	31.70	32.60		0.90		31.66	32.56		0.90			161	18.4	Intact	C	18	N	dull, blocky, some very small partings. Hard, some compressed powder
	32.60	33.40		0.80										Intact	MST		N	brown-grey mudstone
6	33.25	34.25		1.00														
				1.00							47°			Intact	MST		N	Mudstone with small Carb stringers throughout
																		EOH

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Large Diameter (6") Core Description

Hole:	**LR16CC-15**																	
Northing:	5501153.000			**UTM System:**	NAD83 11				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	**661144**								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**25m**	
Elevation:	**1486m**												**Total Depth:**	**35m**				
									Logged by:	Brian Larsen			**Date:**	**2016-05-17**				

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	25.00	26.00		1.03														
				0.42		25.28	25.70	0.42							**mst**		**N**	
				0.12		25.70	25.82	0.12							C		N	coal stringer
				0.49		25.82	26.31	0.49							mst		N	
2	26.00	27.50		1.42														
				0.47		26.31	26.78	0.47							slt		N	
				0.40		26.78	27.18	0.40							mst		N	carb blackish mst
				0.03		27.18	27.21	0.03							C		N	stringer
				0.10		27.21	27.31	0.10							mst		N	carb blackish mst
				0.12		27.31	27.43	0.12							C		N	stringer
				0.30		27.43	27.73	0.30							mst		N	carb blackish mst, w slickenside
3	27.50	29.00		1.57														
				0.47		27.73	28.20	0.47							mst			carb backish mst transitioning to clay rich mst, very soft
	27.94	28.79		0.85		28.20	29.05	0.85	0.85			R340162			C		N	coal, hard progressing to soft
	28.79	28.89		0.10		29.05	29.15	0.10	0.10			excl.			mst			carb blackish mst, parting removed
	28.89	28.99		0.10		29.15	29.25	0.10	0.10			R340162	27.8		C			coal, v. soft
4	29.00	30.50		1.61														
	28.99	29.99		1.00		29.25	30.25	1.00	1.00			R340163	24		C		N	coal, hard getting soft, minor partings removed
	29.99	30.60		0.61		30.25	30.86	0.61	0.61			R340164			C		N	coal, flaky, soft, shiny
5	30.50	32.00		1.57					1.57									
	30.60	31.00		0.40		30.86	31.26	0.40	0.40			R340164	25.2		C		N	coal, powdery with flakes, shiny

Run #	Driller's Depths					Corrected Depths					BCN	Sample #	Sample Mass	Core Quality	Lith Code	Seam	Acid Test	Description
				Recovered					Recovered								Fizz	
	From	To	Interval	m	%	From	To	Interval	m	%			(kg)				Y/N?	
	31.00	32.17		1.17		31.26	32.43	1.17	1.17			R340165	28.4		C		N	coal a.a.
6	32.00	33.50		1.63														
	32.17	33.17		1.00		32.43	33.43	1.00	1.00			R340166	23.6		C		N	coal a. a.
	33.17	33.80		0.63		33.43	34.06	0.63	0.63			R340167			C		N	coal a. a., photo missed 32.17 to 33.17m and sample R340166
7	33.50	35.00		1.51														
	33.80	34.16		0.36		34.06	34.42	0.36	0.36			R349167	24		C		N	coal a.a.
	34.16	34.26		0.10		34.42	34.52	0.10	0.10						mst			parting removed
	34.26	34.74		0.48		34.52	35.00	0.48	0.48			R340168	11.8		C		N	coal, bright, flaky, hard
				0.57		35.00	35.57	0.57							mst/slt			carb blackish mst towards light colored very hard slt in the fw
													164.8					

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-16**																	
Northing:	5501157.000			**UTM System:**	NAD83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6	
Easting:	**661145**								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**26.25**	
Elevation:	**1486m**												**Total Depth:**	**40**				
									Logged by:	HE			**Date:**	**June 17 2016**				

	Driller's Depths					Corrected Depths							Sample Mass					
				Recovered					Recovered									
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	**BCN**	**Sample #**	**(kg)**	**Core Quality**	**Lith Code**	**Seam**	**Acid Test Fizz Y/N?**	**Description**
1	26.20	27.75	1.55	1.55	100%				1.55									
	26.20	27.20	1.00	1.00	100%				1.00					I	MS		N	Hanging wall.
	27.20	27.75	0.55	0.55	100%				0.55						CM		N	Sheared zone, gets more carbon rich at bottom of run.
2	27.75	29.30	1.55	1.54	99%				1.54									
	27.75	28.35	0.60	0.60	100%				0.60					I	CM		N	Minor coaly stringers. Solid.
	28.35	28.83	0.48	0.48	100%				0.48					I	CM/C		N	Very dirty coal in many MS partings througout. Not smapled.
	28.83	29.29	0.46	0.46	100%				0.46					B	CM		N	Minor coaly stringers. Broken.
3	29.30	30.90	1.60	1.72	108%				1.72									
	29.30	30.45	1.15	1.15	100%				1.15					I	CM		N	Some sheared zones, <2cm. Not a clear contact with coal.
	30.45	31.02	0.57	0.57	100%	29.90	30.47	0.57	0.57			R340169	27.2	I	C	18	N	Strong sulfur smell, blocky, shiny, smapled but is a little dirty.
4	30.90	32.40	1.50	1.70	113%				1.70									
	30.90	31.33	0.43	0.43	100%	30.47	30.90	0.43	0.43			R340169	27.2	I	C	18	N	Same a.a., sampled but a little dirty.
	31.33	31.48	0.15	0.15	100%	30.90	31.05	0.15	0.15					I	C	18	N	Same a.a., Core separated, gain?
	31.48	31.74	0.26	0.26	100%				0.26			EXCLUDED		I	C	18	N	Dirty coal with muddy stringers.
	31.74	32.60	0.86	0.86	100%	31.31	32.17	0.86	0.86			R340170	24.4	I	C	18	N	Coal, some compressed powder, some blocky sections.
5	32.40	33.95	1.55	1.61	104%				1.61									
	32.40	32.54	0.14	0.14	100%	32.17	32.31	0.14	0.14		35	R340170	24.4	I	C	18	N	Same a.a.
	32.54	33.54	1.00	1.00	100%	32.31	33.31	1.00	1.00			R341656	26	I	C	18	N	Shiny, minor sheared zones. Some blocky, small amount of compressed powder.
	33.54	34.01	0.47	0.47	100%	33.31	33.78	0.47	0.47			R341657	22.2	I	C	18	N	Same a.a.
6	33.95	35.45	1.50	1.50	100%				1.50									
	33.95	34.48	0.53	0.53	100%	33.78	34.31	0.53	0.53			R341657	22.2	I/B	C	18	N	Broken zone at .53, <3cm. Very hard. Dull.
	34.48	35.45	0.97	0.97	100%	34.31	35.28	0.97	0.97			R341658	27	I	C	18	N	Blocky, shiny, some compressed powder, easily broken.
7	35.45	37.00	1.55	1.63	105%				1.63									
	35.45	36.45	1.00	1.00	100%	35.28	36.28	1.00	1.00			R341659	24	I	C	18	N	Same a.a.
	36.45	37.08	0.63	0.63	100%	36.28	36.91	0.63	0.63			R341660	24.2	I	C	18	N	Same a.a.
8	37.00	38.50	1.50	1.45	97%				1.45									
	37.00	37.40	0.40	0.40	100%	36.91	37.31	0.40	0.40			EXCLUDED		I	C/CM		N	~40cm parting excluded from sample.
	37.40	37.69	0.29	0.29	100%	37.31	37.60	0.29	0.29			R341660	24.2	I	C	18	N	Shiny, sheared in compressed powder, heavy.
	37.69	38.45	0.76	0.76	100%				0.76					I	CM		N	Footwall, carb. mud, no distinct contact.
9	38.50	40.00	1.50	1.34	89%				1.34									
	38.50	40.00	1.50	1.34	89%				1.34					B/I	CM		N	Footwall, carb. mud, sheared for first 30cm, intact for the rest of run.
																		EOH: 40.0m

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Large Diameter (6") Core Description

Hole:	**LR16CC-17**																	
Northing:	5501160.000			**UTM System:**	NAD83 11				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	**661144**								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**27.2m**	
Elevation:	**1486m**												**Total Depth:**	**41.6m**				
									Logged by:	Hilary Evans/Brian Larsen			**Date:**	**2016-06-18**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	27.20	28.50	1.30	1.31	101%													
				0.50										intact	mst		**N**	**mst w minor cab**
				0.41										B	mst		N	sheared, increasing carb content
				0.40										B	c/cm		N	carb mud w some coal, v. broken, flaky
2	28.50	30.05	1.55	1.68	108%													
				0.20							40			B	C/CM		N	a.a.
				1.48										intact	CM		N	CM w minor coaly stringers, broken in shoe, carb rich and shiny
3	30.05	31.55	1.50	1.43	95%													
				0.71											slt			dark grey
				0.05														soft lt brown clay @ contact
				0.16														interbedded dull coal, claystone?
	31.00	31.50		0.51		31.20	31.71		0.51			R341661		intact				bright coal, soft, flaky, wavy fracture along bedding
4	31.55	33.10	1.55	1.41	91%													
	31.50	32.00		0.50		31.71	32.21		0.50			R341661	22.6	intact	C	18	N	coal a.a.
	32.00	32.90		0.91		32.21	33.12		0.91			R341662	25.8	intact	C	18	N	coal a.a.
5	33.10	34.60	1.50	1.51	101%													
	33.10	33.27		0.17		33.12	33.29		0.17			R341663		intact	C	18	N	coal, very hard
	33.27	33.31		0.04		33.29	33.33		0.04			excl.			mst	18	N	parting removed
	33.31	34.17		0.86		33.33	34.19		0.86			R341663	24.6		C	18	N	coal a.a.
	34.17	34.19		0.02		34.19	34.21		0.02			excl.			mst	18	N	parting removed
	34.19	34.31		0.12		34.21	34.33		0.12			R341664			C	18	N	coal a.a.
	34.31	34.38		0.07		34.33	34.40		0.07			excl.			mst	18	N	parting removed

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	34.38	34.61		0.23		34.40	34.63		0.23			R341664			C	18	N	coal, soft, flaky, shiny; whiteboard in photo incorrectly shows run #4?
6	34.60	36.10	1.50	1.41	94%													
	34.60	34.96		0.36		34.63	34.99		0.36			R341664		intact	C	18	N	coal, hard and blocky towards soft/powdery
	34.96	35.08		0.12		34.99	35.11		0.12			excl			mst			carb brownish mst, parting removed
	35.08	35.28		0.20		35.11	35.31		0.20			R341664	22.6	intact				coal, soft/powdery
	35.28	35.36		0.08		35.31	35.39		0.08						mst			a.a., parting removed
	35.36	36.01		0.65		35.39	36.04		0.65			R341665		intact	C			coal, shiny/greasy/flaky; missed photo while camera battery recharged
7	36.10	37.65	1.55	1.52	98%													
	36.10	36.45		0.35		36.04	36.39		0.35			R341665	22.4	intact	C			coal, very hard
	36.45	40.05		0.60		36.39	36.99		0.60			R341666	14.8		C			coal a.a.
	40.05	40.62		0.57											mst			soft light colored mst/clay, fw
													132.8					

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-18**																		
Northing:	5501154.000			**UTM System:**	NAD83 11			**Hole Orientation:**			Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	**661146**							**Hole Type:**			6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**25m**	
Elevation:	**1486m**													**Total Depth:**	**35m**				
								Logged by:			Brian Larsen			**Date:**	**2016-06-18**				

	Driller's Depths					Corrected Depths													
				Recovered					Recovered					Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	Lost (m)	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	25.00	26.00	1.00	0.92	92%	24.47	26.05	1.58	0.92	58%									
	25.00	25.33	0.33	0.33	100%	24.47	24.80	0.33	0.33	100%						**mst**			**soft mst w thin coal stringers**
	25.33	25.62	0.29	0.29	100%	24.80	25.30	0.50	0.29	58%			R341667		intact	C	???	N	stringer sampled but may be above the 18 seam
	25.62	25.92	0.30	0.30	100%	25.30	25.60	0.30	0.30	100%						mst			soft carb mst
						25.60	26.05	0.45	0.00	0%						LOSS			
2	26.00	27.00		0.96															
	25.92	26.52	0.60	0.60	100%	26.05	26.65	0.60	0.60	100%						mst			grey mst to a soft mud, sharp transition to dirty coal, sheared zone on top about 8cm thick
	26.52	26.88	0.36	0.36	100%	26.65	27.01	0.36	0.36	100%			R341667	23	intact	C	18	N	coal, very soft
3	27.00	28.50		1.60															
	26.88	27.88		1.00		27.01	28.45	1.44	1.00	69%			R341668		intact	C	18	N	coal a.a.
	27.88	28.16		0.28		28.45	28.73	0.28	0.28	100%			excl.			mst			parting removed
	28.16	28.48		0.32		28.73	29.01	0.32	0.32	100%			R341668	31.4	intact	C	18	N	coal, flaky/very soft
4	28.50	30.00		1.60															
	28.48	29.48		1.00		29.01	30.01	1.00	1.00	100%			R341669	25.6	intact	C	18	N	coal, v soft, minor partings removed
	29.48	30.08		0.60		30.22	30.82	0.60	0.60	100%			R341670		intact	C	18	N	coal, very soft and greasy
5	30.00	31.50		1.50															
	30.08	30.48		0.40		30.82	31.22	0.40	0.40	100%			R341670	23	intact	C	18	N	coal, very soft and greasy
	30.48	31.58		1.10		31.22	32.32	1.10	1.10	100%			R341671	25.4	intact	C	18	N	coal, very soft and greasy
6	31.50	33.00		1.52															
	31.58	32.28		0.70		32.32	32.80	0.48	0.70	145%			R341672	16.4	intact	C	18	N	coal, v hard/blocky, shiny to soft/ powdery near contact w fw
	32.28	33.10		0.82												mst/slt			carb mst to very hard greyish slt
7	33.00	34.50		EOH										144.8					

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-19**																	
Northing:	5501158			**UTM System:**	NAD83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	6m	
Easting:	661146								**Hole Type:**	6 inch/15cm core			**Seam:**	**18.00**		**Core point:**	**27.0m**	
Elevation:	**1486m**												**Total Depth:**	**35.8**				
									Logged by:	Hilary Evans			**Date:**	**June 19. 2016**				

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	27.00	28.70	1.70	1.70	100%													
	27.00	28.14		1.14	100%									Intact	CM			Mudstone with minor carb
	28.14	28.40		0.26	100%									Broken	CM			Sheared zone, getting more carbon rich down hole
	28.40	28.70		0.30	100%									Broken	C/CM			powdery, very dirty coal
2	28.70	30.25	1.55	1.39	90%													
	28.70	29.70		1.00	100%	29.00	30.00	1.00	1.00	100%	37°	R341673	23.6	Broken	C	18	N	Shiny, broken, varying from flakey to blocky some compressed powder
	29.70	29.86		0.16	100%	30.00	30.16	0.16	0.00	0%				loss				
	29.86	30.25		0.39	100%	30.16	30.55	0.39	0.39	100%		R341674	27	Broken	C	18	N	Same as above
3	30.25	31.75	1.50	1.44	96%													
	30.25	30.86		0.61	100%	30.55	31.16	0.61	0.61	100%		R341674		Intact	C		N	Compressed powder with minor shearing, some blocky sections
	30.86	31.34		0.48	100%	31.16	31.64	0.48	0.48	100%		R341675	24.8	Intact	C		N	Same as above, dull
	31.34	31.69		0.35	100%	31.64	31.99	0.35	0.35	100%		EXCLUDED						~35 cm parting removed
	31.69	31.75		0.06	100%	31.99	32.05	0.06	0.00	0%				loss				
4	31.75	33.30	1.55	1.50	97%													
	31.75	32.05		0.30	100%	32.05	32.25	0.20	0.20	100%		EXCLUDED		Intact	C		N	Coal with large parting removed
	32.05	32.57		0.52	100%	32.25	32.77	0.52	0.52	100%		R341675		Intact	C		N	Shiny, friable, some compressed powder
	32.57	32.91		0.34	100%	32.77	33.06	0.29	0.29	100%		R341676	22	Intact	C		N	Same as above
	32.91	32.96		0.05	100%	33.06	33.16	0.10	0.10	100%		EXCLUDED						
	32.96	33.25		0.29	100%	33.16	33.50	0.34	0.34	100%		R341676		Broken	C		Y	Blocky, sheared, shiny
	33.25	33.30		0.05	100%	33.50	33.55	0.05	0.00	0%				loss				
5	33.30	34.80	1.50	1.51	101%													
	33.30	33.62		0.32	100%	33.55	33.87	0.32	0.32	100%		R341676		Intact	C			dull, blocky, bottom of seam, sheared contact
	33.62	34.81		1.19	100%									Intact	CM			brown, some minor coal stringers with 10cm sheared zone
6	34.80	35.80	1.00	1.17	117%													
	35.80	36.97		1.17	100%						45°			Broken/Intact	CM			Footwall, mostly intact, some broken sections
																		EOH: 35.8m

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-30

Northing: 5502422 **Easting:** 661412 **Elevation:** 1433

UTM System: NAD83

Hole Orientation: Vertical

Hole Type: 6 inch/15cm core

Logged by: AC/TS/ML

Property: Loop Ridge

Seam: 11

Total Depth: 54

Date: Jun. 19/20, 2016

Cased to: 9

Core point: 26

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	26.00	28.00		2.00							45			B	SLT		N	very broken at top and bottom SST cross bedding top & mid. , light grey, calcite veinlets infilling fractures. Very hard.
2	28.00	30.00		1.40														
	28.00	28.82		0.82							45			B	SLT		Y	as above
	28.82	29.40		0.58										B	SLT			very broken, slickensided surfaces, jointed
3	30.00	32.00		2.03														
	30.00	31.00		1.00		29.10	30.10	1.00	1.00	100		R341345	22.8	I	Co			med. Brightness , med. Hardness, flaky, sheared appearance
	31.00	31.36		0.36		30.10	30.46	0.36	0.36	100		R341346	21.6	I	Co			as above
	31.36	32.03		0.67		30.46	31.13	0.67	0.67	100		R341346		I	Co			dense dull, hard, somewhat flakey
4	32.00	34.00		1.96														
	32.00	32.24		0.24		31.13	31.37	0.24	0.24	100		R341347	20	I	Co		~	med brightness, flakey - grading to dull v. hard. Trace py
	32.24	32.81		0.57		31.37	32.10	0.73	0.57	78		R341347		I	Co		little	v. hard. V. dull, dense, inert fragments? (abrupt contact @ 45 BCN non conformal to bedding. Fault?)
	32.81	33.96		1.15										I	SLT		Y	siltstone, med grey, thin laminated extensilvey fault/brecciated with calcite filled fractures
5	34.00	36.00		2.07										I	MS		Y	dk grey MS , blocky angualr fracture, shiny joint surfaces. Calcite filled fractures
6	36.00	38.00		0.98											SLT		Y	dk grey siltstone, v. fine, some fine lt. grey laminations bedding near vertical. Shiny fractures on bedding surfaces
7	38.00	40.00		1.88														contact w SLT not seen, lost in last run.
	38.00	38.77		0.77		37.00	37.77	0.77	0.77	100	45	R341348	22.8		Co			dull, dense, hard, sheared, breaks @ 45BCN, no mudclasts
	38.77	39.14		0.37		37.77	38.14	0.37	0.37	100		R341348			Co/Ms			intermixed fracture zone pieces of Ms up to 2cm. Co v. soft , sheared, v. fine grained.
																		*larger pieces of Ms excluded
	39.14	39.20		0.06		38.14	38.20	0.06	0.06	100		R341349	30.2		Co/Ms			large lens of Ms, * excluded
	39.20	39.88		0.68		39.20	39.88	0.68	0.68	100	70	R341349			Co			soft, sheared. Mostly dull, w some bright banding. Breaks easily @ 70BCN. Mudclasts not preent
8	40.00	42.00		1.80														
	40.00	40.66		0.66		39.88	40.54	0.66	0.66	100		R341349			Co			as above. Sharp contact w Cm
	40.66	41.17		0.51											Co/Cm			soft, sheared, intermixed. Mudclasts, broken pieces of Cm~ 1-2cm
																		Co stringers throughout
																		*not sampled
	41.17	41.80		0.63											Cm			black, brown streak, carb. Material. V. fractured. Soft, sheared.
											50							Co stringers: 41.47-41.53 & 41.62-41.64 (contacts @ 50BCN)
																		*not sampled
9	42.00	44.00		2.00														
	42.00	43.00		1.00		41.28	42.28	1.00	1.00	100		R341350	23.4		Cm/Co			soft, sheared, black w brown streak. Carb. Material.
																		Co. stringers throughout 1-2 cm thick
											80							80 ~vertical BCN
																		wavy contacts w Cm *area sampled
											90-70							Intermixed Co contact @ 42.55-43.77, vertical from 42.55-43.3, becomes less steep @ end of contact ~70BCN
																		*area sampled
	43.00	44.00		1.00		42.28	43.28	1.00	1.00	100		R341351	22.2		Co			mudclasts and Co banding throughout
																		dense but easily broken, dull, sheared
																		*v. difficult area to sample only obvious partings excluded. The Co is very dirty.
10	44.00	46.00		1.72														
	44.00	45.00		1.00		43.28	44.28	1.00	1.00	100		R341352	21.8		Co			Dull, v little bright banding or pieces
																		soft, sheared, breaks easily @45 BCN. Mudclasts presents ~1-2cm.
																		Fractured zone: 44.2-44.50 with pieces of Cm
	45.00	45.72		0.72		44.28	45.00	0.72	0.72	100		R341353	21.8		Co			Co as above. Broken at bottom of run (shoe)
11	46.00	48.00		1.86														
	46.00	46.20		0.20		45.00	45.30	0.30	0.20	67		R341353			Co			v. broken. Soft, sheared, dull

	46.20	46.40		0.20		45.30	45.60	0.30	0.20	67					Cm			parting. Black, brown streak, soft, sheared, fractured intermixed contact.
	46.40	46.50		0.10		45.60	45.80	0.20	0.10	50	45	R341353			Co			stringer sharp contact @45BCN w SLT. Dull, some bright bands
	46.50	47.80		1.30														grey-brown. Fractured @70-75BCN, fault gouge clays.
																		Co stringer ~2c, thick 70BCN @ 47.25&47.50.
																		v broken @ base (shoe)
12	48.00	50.00		2.00														
	48.00	48.43		0.43											CM			black, brown streak. Sheared w slickenslides.
																		Co stringer ~1cm thick @ 48.20
											70							sharp contact @70BCN. Good Competence, but broken easily
	48.83	49.63		1.20							45				Ms			brown, brown streak. Fractures~45BCN.
																	Y	Calcite filling fractures, slickenslides
	49.63	50.00		0.37														48.63-49.93 fracture zone. V broken
															CM			black, brown streak. Carb material throughout
																		broken @ bottom of run (shoe)
13	50.00	52.00		2.00											Ms			brown, brown streak
											65							fractured: 50-50.75, fault gouge. More competent towards the bottom of the run
																	Y	calcite filling fractures
14	52.00	54.00		1.95											Ms			brown, brown streak. Soft, sheared. Broken top of run and at bottom (shoe)
											70						Y	Calcite filling fractures, fault gouge
																		*EOH
																		Called Hole, need another 7-8 bags to reach 300kgs. SLT with 45 bedding not seen as w prev hole at the bottom

CanAus Coal Ltd.
Large Diameter (6") Core Description

Hole: LR16CC-31

Northing: 5502201 **UTM System:** Nad83 **Hole Orientation:** Vertical **Property:** Loop Ridge **Cased to:** 9

Easting: 661412 **Hole Type:** 6 inch/15cm core **Seam:** 11 **Core point:** 26

Elevation: 1433 **Total Depth:** 54

Logged by: AC **Date:** 2016-06-20

	Driller's Depths					Corrected Depths											
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test Fizz
Run #	From	To	Interval	m	%	From	To	Interval	m	%	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	26.00	28.00		2.00														
				2.00							45			B	SLT		Y	fractured throughout, sheared section in middle with gouge.
																		Softer MS bands throughout calcite infilling joints. Slickenslides
2	28.00	29.50		1.50														
				1.50							45			B	MS		Y	silty at top with SS cross-bedding structures ~ 3c, thick, calcite veinlets & infilling fractures
																		slickenslided sheared surfaces
3	29.50	31.00		0.76														Loss 0.74m
				0.76										B	MS			v broken, silty/sandy bedding seen on lower fragments calcite veins top of unit
4	31.00	34.00		2.40														0.6m loss in Co
	31.00	32.00		1.00		30.40	31.40	1.00	1.00	100		R341401	21.8	I	Co	11		hard, bright banding throughout
	32.00	33.00		1.00		31.40	32.40	1.00	1.00	100		R341402	17.4	B	Co			parting near middle, removed from sample ~35cm
																		blocky, less towards base
	33.00	33.40		0.40		32.40	32.80	0.40	0.40	100		R341402		B	Co			hard, dull. Possible loss here
5	34.00	36.00		1.95														
	34.00	34.48		0.48		32.80	33.28	0.48	0.48	100		R341403	20	I	Co			hard, bright banding t/a
	34.48	35.95		1.47		33.28	34.75	1.47	0.07	5		R341403		I	Co			interbedded MS with Co. Co band ~7cm @ (sampled) base, sheared, Co is bright however its thin
6	36.00	38.00		0.60														1.4m loss in Co
	36.00	36.40		0.40		34.75	36.55	1.80	0.40	22				B	MS/Co			v broken, interbedded Co & Ms
	36.40	36.60		0.20		36.55	36.75	0.20	0.20	100		R341403		I	Co			dull w bright bands, hard
7	38.00	39.00		0.55														0.45m loss
	38.00	38.55		0.55		36.75	38.5?	1.00	0.55	55				B	SLT			Abundant small SST beds w cross bedding
8	39.00	40.00		1.00														
				1.00		38.50	39.50	1.00	1.00	100		R341404	23.4	I	Co		N	dull w bright bands, brighter towards base harder @ top
9	40.00	42.00		1.80														
	40.00	41.00		1.00		39.50	40.50	1.00	1.00	100		R341405	25.4	I	Co		N	dull, muddy, occ. Bright banding
	41.00	41.80		0.80		40.50	41.50	1.00	0.80	80		R341406	16	I	Co		N	dull muddy, minor bright bands
10	42.00	44.00		2.00														
	42.00	43.00		1.00		41.50	42.50	1.00	1.00	100		R341407	22.8	I	Co		N	v muddy, 3x claystone partings ~3cm in size at top, removed from sample, brighter less muddy towrds bottom
	43.00	44.00		1.00		42.50	43.50	1.00	1.00	100	45	R341408	22.2	I	Co		N	
11	44.00	46.00		2.00														
	44.00	45.00		1.00		43.50	44.50	1.00	1.00	100		R341409	22	I	Co		N	hard, bright bands throughout. Muddy in part
	45.00	46.00		1.00		44.50	45.50	1.00	1.00	100		R341410	19	I	Co		N	hard, blocky
12	46.00	48.00		2.00														
	46.00	47.00		1.00		45.50	46.50	1.00	1.00	100		R341411	22	I	Co		N	hard, blocky & bright @ top
	47.00	48.00		1.00		46.50	47.50	1.00	1.00	100		R341412	22.8	I	Co		N	hard, mostly dull w some brightbands ~ 20%.
																		soft sheared section middle of unit
13	48.00	50.00		1.94														
	48.00	49.00		1.00		47.50	48.50	1.00	1.00	100		R341413	23	I	Co		N	hard, mostly dull with bright bands

	39.00	49.94		0.94		48.50	49.50	1.00	0.94	94		R341414	20	I	Co		N	as above, slightly sheared towards middle blocky in part
14	50.00	52.00		1.67														
	50.00	50.75		0.75		49.50	50.50	1.00	0.75	75		R341415	10	B	Co		N	v broken, sheared soft, common MS partings throughout. Removed from sample
	50.75	51.67		0.92										I	MS		N	carbonaceous @ top, calcite veins lmm-1cm throughout. Fractured
15	52.00	54.00		1.80														
	52.00	52.40		0.40							40			B	SLT		Y	Calcite vein @ top, sandy, mostly intact
	52.40	52.85		0.45										B	MS			v broken, Co
	52.85	53.40		0.55										I	SLT			Fractured
	53.40	53.55		0.15										B	MS			v broken, sheared, slickensided surfaces
	53.55	53.80		0.25										I	SLT			carbonaceous clasts, 1.5cm MS band in mid
																		EOH 54 m

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-32**																
Northing:	5502219.026			**UTM System:**	NAD83 11			**Hole Orientation:**		Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9m
Easting:	**661211.5919**							**Hole Type:**		6 inch/15cm core			**Seam:**	**10.00**		**Core point:**	**150m**
Elevation:	1404.195												**Total Depth:**	**191.4m**			
								Logged by:		BCL/ML			**Date:**	**2016-07-05**			

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	150.00	151.40	1.40	1.45	104%	150.00	151.40	1.40	1.45	104%								No geophys beyond 85m - Hole caved in.
	150.00	151.45	1.45	1.45	100%	150.00	151.45	1.45	1.45	100%					mst			w minor coal partings, fractured, slickenside, BCN about 30
2	151.40	153.40	2.00	1.90	95%	151.40	153.40	2.00	1.90	95%								
	151.40	153.30	1.90	1.90	100%	151.40	153.30	1.90	1.90	100%					mst			**a.a.**
	153.30	153.40	0.05	0.00	0%	153.30	153.40	0.05	0.00	0%					LO			
3	153.40	155.40	2.00	1.75	88%	153.40	155.40	2.00	1.75	88%								
	153.40	155.15	1.75	1.75	100%	153.40	155.15	1.75	1.75	100%					mst			a.a.
	155.15	155.40	0.25	0.00	0%	155.15	155.40	0.25	0.00	0%					LO			
4	155.40	157.40	2.00	1.60	80%	155.40	157.40	2.00	1.60	80%								
	155.40	157.00	1.60	1.60	100%	155.40	157.00	1.60	1.60	100%					mst			blk and shaly, v. broken, fractured, jointed perpendicular to bedding, v. hard and glassy along joints, folding along core normal
	157.00	157.40	0.40	0.00	0%	157.00	157.40	0.40	0.00	0%					LO			
5	157.40	159.40	2.00	1.70	85%	157.40	159.40	2.00	1.70	85%								
	157.40	159.10	1.70	1.70	100%	157.40	159.10	1.70	1.70	100%					mst			a.a., fold axis perpendicular to core normal. *changed hole ID to LR16CC-32
	159.10	159.40	0.30	0.00	0%	159.10	159.40	0.30	0.00	0%					LO			
6	159.40	161.40	2.00	1.90	95%	159.40	161.40	2.00	1.90	95%								
	159.40	160.40	1.00	1.00	100%	159.40	160.40	1.00	1.00	100%		R339262	20.2	intact	C	10		v. soft
	160.40	161.30	0.90	0.90	100%	160.40	161.30	0.90	0.90	100%		R339263	19.2	intact	C	10		a.a., firming nearer the shoe
	161.30	161.40	0.10	0.00	0%	161.30	161.40	0.10	0.00	0%					LO			
7	161.40	163.40	2.00	1.90	95%	161.40	163.40	2.00	1.90	95%								
	161.40	162.40	1.00	1.00	100%	161.40	162.40	1.00	1.00	100%		R339264	21	intact	C	10		v. soft w. firm bands, particulate to flaky
	162.40	163.30	0.90	0.90	100%	162.40	163.30	0.90	0.90	100%		R339265	20	intact	C	10		a.a.
	163.30	163.40	0.10	0.00	0%	163.30	163.40	0.10	0.00	0%					LO			
8	163.40	165.40	2.00	1.20	60%	163.40	165.40	2.00	1.20	60%								
	163.40	163.60	0.20	0.20	100%	163.40	163.60	0.20	0.20	100%		R339266		broken	C	10		chips/blocky, shiny
	163.60	163.65	0.05	0.05	100%	163.60	163.65	0.05	0.05	100%								parting excl.
	163.65	164.60	0.95	0.95	100%	163.65	164.60	0.95	0.95	100%		R339266	26.2	broken	C	10		chips to v. soft, shiny
	164.60	165.40	0.80	0.00	0%	164.60	165.40	0.80	0.00	0%					LO			
9	165.40	169.40	4.00	1.00	25%	165.40	169.40	4.00	1.00	25%		R339267	17.6	intact				4m run drilled although core barrel only ~3.5m long - unsure of depths beyond this point. Loss most probably not accurate.
	165.40	166.40	1.00	1.00	100%	165.40	166.40	1.00	1.00	100%					C	10		v. soft w. firm bands, dull surface, shiny on cleavage
	166.40	169.40	3.00	0.00	0%	166.40	169.40	3.00	0.00	0%					LO			
10	169.40	171.40	2.00	1.50	75%	169.40	171.40	2.00	1.50	75%								
	169.40	170.40	1.00	1.00	100%	169.40	170.40	1.00	1.00	100%		R339268	21		C	10		v. soft/ powdery
	170.40	170.90	0.50	0.50	100%	170.40	170.90	0.50	0.50	100%		R339269			C	10		v. soft/ powdery
	170.90	171.40	0.50	0.00	0%	170.90	171.40	0.50	0.00	0%					LO			
11	171.40	174.40	3.00	0.70	23%	171.40	174.40	3.00	0.70	23%								
	171.40	171.90	0.50	0.50	100%	171.40	171.90	0.50	0.50	100%		R339269	28.6	broken	C	10	Y	v. broken, w approx 3cm pieces of hard coal and v. frag coal, some small hard pieces of Cm mixed in. *excluded
	171.90	172.10	0.20	0.20	100%	171.90	172.10	0.20	0.20	100%		R339270		intact	C	10	Y	a.a., v gassy
	172.10	174.40	2.30	0.00	0%	172.10	174.40	2.30	0.00	0%					LO			
12	174.40	176.00	1.60	1.50	94%	174.40	176.00	1.60	1.50	94%								

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	174.40	175.20	0.80	0.80	100%	174.40	175.20	0.80	0.80	100%		R339270	15.4	broken/intact	C	10	Y	10cm loss suspected near top. First 20cm broken coal a.a.
	175.20	175.90	0.70	0.70	100%	175.20	175.90	0.70	0.70	100%		R339271		broken/intact	C	10	Y	a.a. Intact except where broken out of shoe.
	175.90	176.00	0.10	0.00	0%	175.90	176.00	0.10	0.00	0%					LO			
13	176.00	177.40	1.40	1.35	96%	176.00	177.40	1.40	1.35	96%								
	176.00	176.35	0.35	0.35	100%	176.00	176.35	0.35	0.35	100%		R339271	16.8	broken	C/ms	10	Y	v. broken a.a., intermixed w/ms pieces ranging in size from 1 to 6cm, *excl.
	176.35	177.35	1.00	1.00	100%	176.35	177.35	1.00	1.00	100%		R339272	17.4	broken/intact	C	10	Y	intact, except in shoe, ms pieces not seen, sheared@35 BCN
	177.35	177.40	0.05	0.00	0%	177.35	177.40	0.05	0.00	0%					LO			
14	177.40	179.40	2.00	1.88	94%	177.40	179.40	2.00	1.88	94%								
	177.40	178.40	1.00	1.00	100%	177.40	178.40	1.00	1.00	100%		R339273	21.2	broken/intact	C	10	Y	a.a., v. broken top 40cm, bottom 60cm intact, gassy, fg coal w/ larger harder pieces approx 1 to 3cm in size
	178.40	179.28	0.88	0.88	100%	178.40	179.28	0.88	0.88	100%		R339274		broken/intact	C	10	Y	a.a., intact top 70cm, bottom 16cm broken out of shoe,
	179.28	179.40	0.12	0.00	0%	179.28	179.40	0.12	0.00	0%					LO			
15	179.40	181.00	1.60	1.28	80%	179.40	181.00	1.60	1.28	80%								
	179.40	179.52	0.12	0.12	100%	179.40	179.52	0.12	0.12	100%		R341274	14	B	Co/Ms	10	N	v broken intermixed Co/Ms blocky pieces ~1-4cm in size, suspected loss at top of run, Ms brown w brown streak *only obvious pieces excluded* Co: soft, sheared, dull
	179.52	180.68	1.16	1.16	100%	179.52	180.68	1.16	1.16	100%		R341275	17	B/I	Co	10		top 50 cm v broken Co as above. Blocky Ms pieces not seen. next 30 cm v hard. Co, sheared w bright bands. Intact. bottom section, soft w hard Co band ~5cm thick
	180.68	181.00	0.32	0.00	0%	180.68	181.00	0.32	0.00	0%					LO			
16	181.00	183.40	2.40	2.05	85%	181.00	183.40	2.40	2.05	85%								
	181.00	181.05	0.05	0.05	100%	181.00	181.05	0.05	0.05	100%				B	Ms			broken blocky pieces of Ms. Brown w brown streak
	181.05	181.62	0.57	0.57	100%	181.05	181.62	0.57	0.57	100%		R341276	12	I	Cm/Ms/Co		N	v fg Cm/Co, tough to tell difference. Pieces of Ms ~ 1cm in size & pieces of Cm and Co. *sampled but could discard*
	181.62	181.83	0.21	0.21	100%	181.62	181.83	0.21	0.21	100%				I	Ms		Y	brown, w brown streak. Silty w wavy laminations @ 45BCN. calc infilling
	181.83	182.64	0.81	0.81	100%	181.83	182.64	0.81	0.81	100%		R341277		I	Co		N	fg Co w bigger pieces as seem throughout seam. Mudclasts and ~1cm mudbands throughout
	182.64	182.85	0.21	0.21	100%	182.64	182.85	0.21	0.21	100%		R341277	24.2	I	Co		Y	v hard, dull, light and gassy
	182.85	183.05	0.20	0.20	100%	182.85	183.05	0.20	0.20	100%		R341278		B	Co		Y	fg Co w bigger pieces as seen throughout seam. Mudclasts throughout Co dirtry
	183.05	183.40	0.35	0.00	0%	183.05	183.40	0.35	0.00	0%					LO			
17	183.40	185.40	2.00	1.90	95%	183.40	185.40	2.00	1.90	95%								
	183.40	184.20	0.80	0.80	100%	183.40	184.20	0.80	0.80	100%		R341278	14.2	B/I	Co		Y	Co as above w mudclasts rarely thoughout
	184.20	185.10	0.90	0.90	100%	184.20	185.10	0.90	0.90	100%		R341279	24.2	I	Co			Co as above w mudclasts rarely thoughout
	185.10	185.30	0.20	0.20	100%	185.10	185.30	0.20	0.20	100%				B/I	Ms			Intact before being broken out of shoe. Shaley w sheared faces
	185.30	185.40	0.10	0.00	0%	185.30	185.40	0.10	0.00	0%					LO			
18	185.40	187.40	2.00	2.00	100%	185.40	187.40	2.00	2.00	100%								
	185.40	185.75	0.35	0.35	100%	185.40	185.75	0.35	0.35	100%	65			B	Ms		Y	brown. Sheared. Calc infilling
	185.75	186.40	0.65	0.65	100%	185.75	186.40	0.65	0.65	100%				B	Ms		y	v broken to rubble. Ms as above
	186.40	186.65	0.25	0.25	100%	186.40	186.65	0.25	0.25	100%	65			I	Ms		y	Ms as above, calc infilling
	186.65	186.90	0.25	0.25	100%	186.65	186.90	0.25	0.25	100%				B	Cm		N	broken carbonaceous material, sharp lower contact 65BCN
	186.90	187.40	0.50	0.50	100%	186.90	187.40	0.50	0.50	100%				B	Ms		Y	Ms as above
19	187.40	188.40	1.00	0.20	20%	187.40	188.40	1.00	0.20	20%								*shoe was broken, did not allow rock into it
	187.40	187.60	0.20	0.20	100%	187.40	187.60	0.20	0.20	100%				B	Ms			brown, brown streak. Broken pieces ranging 1-10cm larger pieces v hard, smaller pieces easily broken
	187.60	188.40	0.80	0.00	0%	187.60	188.40	0.80	0.00	0%					LO			
20	188.40	189.40	1.00	1.00	100%	188.40	189.40	1.00	1.00	100%				I				
	188.40	189.40	1.00	1.00	100%	188.40	189.40	1.00	1.00	100%					Mst			Mst, greyish blk w several mirror carb. Stringers up to 3cm
21	189.40	191.40	2.00	2.05		189.40	191.40	2.00	2.05					I				
	189.40	191.45	2.05	2.05		189.40	191.45	2.05	2.05						Mst			Mst, greyish blk, few fractures

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-32**					
Northing:					**UTM System:**	
Easting:						
Elevation:						

	Driller's Coring Info					
					Recovered	
Run #	from	to	Interval	Interval OK	m	%
1	150.00	151.40	1.40		1.45	104%
2	151.40	153.40	2.00	ok	1.90	95%
3	153.40	155.40	2.00	ok	1.75	88%
4	155.40	157.40	2.00	ok	1.60	80%
5	157.40	159.40	2.00	ok	1.70	85%
6	159.40	161.40	2.00	ok	1.90	95%
7	161.40	163.40	2.00	ok	1.90	95%
8	163.40	165.40	2.00	ok	1.20	60%
9	165.40	169.40	4.00	ok	1.00	25%
10	169.40	171.40	2.00	ok	1.50	75%
11	171.40	174.40	3.00	ok	0.70	23%
12	174.40	176.00	1.60	ok	1.50	94%
13	176.00	177.40	1.40	ok	1.35	96%
14	177.40	179.40	2.00	ok	1.88	94%
15	179.40	181.00	1.60	ok	1.28	80%
16	181.00	183.40	2.40	ok	2.05	85%
17	183.40	185.40	2.00	ok	1.90	95%
18	185.40	187.40	2.00	ok	2.00	100%
19	187.40	188.40	1.00	ok	0.20	20%
20	188.40	189.40	1.00	ok	1.00	100%
21	189.40	191.40	2.00	ok	2.05	103%
Total	150.00	191.40	41.40		31.81	77%

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-32**																**Foraco Rig 104**
Northing:	5502218.00			**UTM System:**				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9m	Driller: (day) Jason Whitten, (night) Jason Waldner
Easting:	**661216.00**							**Hole Type:**	6 inch/15cm core			**Seam:**	**10.00**		**Core point:**	**150m**	
Elevation:	**1394.00**											**Total Depth:**	**191.4m**				
								Logged by:	BCL/ML			**Date:**	**2016-07-05**				

	Driller's Coring Info					Interval Corrected to Log											
				Recovered								Sample Mass		Lith Code	Seam	Acid Test	
Run #	from	to	Interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Fizz Y/N?	Description
1	150.00	151.40	1.40	1.45	104%									**mst**			**w minor coal partings, fractured, slickenside, BCN about 30**
2	151.40	153.40	2.00	1.90	95%									**mst**			**a.a.**
3	153.40	155.40	2.00	1.75	88%									mst			a.a.
4	155.40	157.40	2.00	1.60	80%									mst			blk and shaly, v. broken, fractured, jointed perpendicular to bedding, v. hard and glassy along joints, folding along core normal
5	157.40	159.40	2.00	1.70	85%									mst			a.a., fold axis perpendicular to core normal
			0.00	1.00	#DIV/0!						R339262	20.20	intact	C	10		v. soft
			0.00	0.90	#DIV/0!						R339263	19.20	intact	C	10		a.a., firming nearer the shoe
			0.00	1.00	#DIV/0!						R339264	21.00	intact	C	10		v. soft w. firm bands, particulate to flaky
			0.00	0.90	#DIV/0!						R339265	20.00	intact	C	10		a.a.
			0.00	0.20	#DIV/0!						R339266		broken	C	10		chips/blocky, shiny
			0.00	0.05	#DIV/0!									mst			parting excl.
			0.00	0.95	#DIV/0!						R339266	26.20	broken	C	10		chips to v. soft, shiny
9	165.40	169.40	4.00	1.00	25%						R339267	17.60	intact	C	10		v. soft w. firm bands, dull surface, shiny on cleavage
			0.00	1.00	#DIV/0!						R339268	21.00		C	10		v. soft/ powdery
			0.00	0.50	#DIV/0!						R339269			C	10		v. soft/ powdery
			0.00	0.50	#DIV/0!						R339269	28.60	broken	C	10	Y	v. broken, w approx 3cm pieces of hard coal and v. frag coal, some small hard pieces of Cm mixed in. *excluded
			0.00	0.20	#DIV/0!						R339270		intact	C	10	Y	a.a., v gassy
			0.00	0.80	#DIV/0!						R339270	15.40	broken/intact	C	10	Y	10cm loss suspected near top. First 20cm broken coal a.a.
			0.00	0.70	#DIV/0!						R339271		broken/intact	C	10	Y	a.a. Intact except where broken out of shoe.
			0.00	0.35	#DIV/0!						R339271	16.80	broken	c	10	Y	v. broken a.a., intermixed w/ms pieces ranging in size from 1 to 6cm, *excl.
			0.00	1.00	#DIV/0!						R339272	17.40	broken/intact	C	10	Y	intact, except in shoe, ms pieces not seen, sheared@35 BCN
			0.00	1.00	#DIV/0!						R339273	21.20	broken/intact	C	10	Y	a.a., v. broken top 40cm, bottom 60cm intact, gassy, fg coal w/ larger harder pieces approx 1 to 3cm in size
			0.00	0.88	#DIV/0!						R339274		broken/intact	C	10	Y	a.a., intact top 70cm, bottom 16cm broken out of shoe,
			0.00	0.12	#DIV/0!						R341274	14.00	B	c	10	N	v broken intermixed Co/Ms blocky pieces ~1-4cm in size
			0.00	1.16	#DIV/0!						R341275	17.00	B/I	c	10		top 50 cm v broken Co as above. Blocky Ms pieces not seen
			0.00	0.05	#DIV/0!								B	Ms			broken blocky pieces of Ms. Brown w brown streak
			0.00	0.57	#DIV/0!						R341276	12.00	I	c		N	v fg Cm/Co, tough to tell difference. Pieces of Ms ~ 1cm in size & pieces of Cm and Co
			0.00	0.21	#DIV/0!								I	Ms		Y	brown, w brown streak. Silty w wavy laminations @ 45BCN
			0.00	0.81	#DIV/0!						R341277		I	c		N	fg Co w bigger pieces as seem throughout seam. Mudclasts and ~1cm mudbands throughout
			0.00	0.21	#DIV/0!						R341277	24.20	I	c		Y	v hard, dull, light and gassy
			0.00	0.20	#DIV/0!						R341278		B	c		Y	fg Co w bigger pieces as seen throughout seam. Mudclasts throughout Co dirtry

	Driller's Coring Info					Interval Corrected to Log						Sample Mass		Lith Code	Seam	Acid Test	
				Recovered												Fizz	
Run #	from	to	Interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
			0.00	0.80	#DIV/0!						R341278	14.20	B/I	c		Y	Co as above w mudclasts rarely thoughout
			0.00	0.90	#DIV/0!						R341279	24.20	I	c			Co as above w mudclasts rarely thoughout
			0.00	0.20	#DIV/0!								B/I	Ms			Intact before being broken out of shoe. Shaley w sheared faces
			0.00	0.35	#DIV/0!					65			B	Ms		Y	brown. Sheared. Calc infilling
			0.00	0.65	#DIV/0!								B	Ms		y	v broken to rubble. Ms as above
			0.00	0.25	#DIV/0!					65			I	Ms		y	Ms as above, calc infilling
			0.00	0.25	#DIV/0!								B	Cm		N	broken carbonaceous material, sharp lower contact 65BCN
			0.00	0.50	#DIV/0!								B	Ms		Y	Ms as above
			0.00	0.20	#DIV/0!								B	Ms			brown, brown streak. Broken pieces ranging 1-10cm larger pieces v hard, smaller pieces easily broken
20	188.40	189.40	1.00	1.00	100%								I	Mst			Mst, greyish blk w several mirror carb. Stringers up to 3cm
21	189.40	191.40	2.00	2.05	103%								I	Mst			Mst, greyish blk, few fractures
Total	150.00	191.40	41.40	31.81	77%												
Recovered rock			14.16	14.16	100%												
Recovered coal			27.24	17.65	65%							350.20	58%				

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-33**																
Northing:	5502210.686			**UTM System:**	NAD83 11			**Hole Orientation:**		Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9m	Foraco Rig 104: Driller(D) Jason Whitten, (N) Jason Waldner
Easting:	661205.992							**Hole Type:**		6 inch/15cm core			**Seam:**	**10.00**		**Core point:**	**148m**	
Elevation:	1404.245												**Total Depth:**	**189.4**				
								Logged by:		BCL/ML			**Date:**	**2016-07-07**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
Hammer	147.70	148.00	0.30	**0.00**														
	148.00	149.40	1.40	1.70	121%	147.45	149.15	1.70	1.70	100%					**mst**		**Y**	**grey/black, fractured 30 BCN, slickensided, little fizz on calcite veins, minor carb stringers**
2	149.40	151.40	2.00	1.80	90%	149.15	150.95	1.80	1.80	100%								
	149.40	150.20	0.80	0.80	100%	149.15	149.95	0.80	0.80	100%				B	**mst**		**N**	**a.a., sharp contact(hw)**
	150.20	151.20	1.00	1.00	100%	149.95	150.95	1.00	1.00	100%		R339280	24	I	C	10	N	mostly dull, firm w more resistant bands
	151.20	151.40	0.20	0.00	0%	150.95	151.40	0.45	0.00	0%					LO			
3	151.40	153.40	2.00	2.00	100%	151.40	153.40	2.00	2.00	100%								
	151.40	152.40	1.00	1.00	100%	151.40	152.40	1.00	1.00	100%		R339281	19	I	C	10	N	a.a.
	152.40	153.40	1.00	1.00	100%	152.40	153.40	1.00	1.00	100%		R339282	20.4	I	C	10	N	a.a.
4	153.40	155.40	2.00	1.50	75%	153.40	155.40	2.00	1.50	75%								
	153.40	154.40	1.00	1.00	100%	153.40	154.40	1.00	1.00	100%		R339283	16.8	B/I	C	10	N	a.a, broken @ top, 20cm carb parting excl.
	154.40	154.90	0.50	0.50	100%	154.40	154.90	0.50	0.50	100%		R339284		I	C	10	N	a.a., broken @ bottom, center of run intact, firmer/blockier towards bottom of run
	154.90	155.40	0.50	0.00	0%	154.90	155.40	0.50	0.00	0%					LO			
5	155.40	157.40	2.00	1.75	88%	155.40	157.40	2.00	1.75	88%								
	155.40	155.90	0.50	0.50	100%	155.40	155.90	0.50	0.50	100%		R339284	20.8	I	C	10	N	dull powdery w shiny flakes, v soft, 10cm parting excl..
	155.90	156.90	1.00	1.00	100%	155.90	156.90	1.00	1.00	100%		R339285	21.4	I	C	10	N	a.a., moist
	156.90	157.15	0.25	0.25	100%	156.90	157.15	0.25	0.25	100%		R339286		I	C	10	N	a.a., much drier than above
	157.15	157.40	0.25	0.00	0%	157.15	157.40	0.25	0.00	0%					LO			
6	157.40	159.40	2.00	0.00	0%	157.40	159.40	2.00	0.00	0%								no recovery
	157.40	159.40	2.00	0.00	0%	157.40	159.40	2.00	0.00	0%					LO			
7	159.40	161.10	1.70	1.60	94%	159.40	161.10	1.70	1.60	94%								
	159.40	160.10	0.70	0.70	100%	159.40	160.10	0.70	0.70	100%		R339286	20	I	C	10	N	v soft, powdery, dull
	160.10	161.00	0.90	0.90	100%	160.10	161.00	0.90	0.90	100%		R339287	21.6	I	C	10	N	a.a., cuts like butter, drier at bottom of run, excl some rock frags
	161.00	161.10	0.10	0.00	0%	161.00	161.10	0.10	0.00	0%					LO			
8	161.10	163.40	2.30	1.45	63%	161.10	163.40	2.30	1.45	63%								
	161.10	162.10	1.00	1.00	100%	161.10	162.10	1.00	1.00	100%		R339288	19.6	I	C	10	Y	v soft w firm bands, dull w shiny flakes, little fizz
	162.10	162.55	0.45	0.45	100%	162.10	162.55	0.45	0.45	100%		R339289		I	C	10	Y	firm bands becoming thicker, pieces chunky
	162.55	163.40	0.85	0.00	0%	162.55	163.40	0.85	0.00	0%					LO			
9	163.40	165.40	2.00	1.45	73%	163.40	165.40	2.00	1.45	73%								
	163.40	163.60	0.20	0.20	100%	163.40	163.60	0.20	0.20	100%					mst			carb mst excl.
	163.60	164.20	0.60	0.60	100%	163.60	164.20	0.60	0.60	100%		R339289	18	I	C	10	N	v soft, mostly powder w small flakes
	164.20	164.85	0.65	0.65	100%	164.20	164.85	0.65	0.65	100%		R339290		I	C	10	N	a.a., 15cm parting and rock frags excl.
	164.85	165.40	0.55	0.00	0%	164.85	165.40	0.55	0.00	0%					LO			
10	165.40	167.40	2.00	1.65	83%	165.40	167.40	2.00	1.65	83%								
	165.40	165.80	0.40	0.40	100%	165.40	165.80	0.40	0.40	100%		R339290	20.6	I	C	10	N	v soft, dull powder w shiny flakes
	165.80	167.05	1.25	1.25	100%	165.80	167.05	1.25	1.25	100%		R339291	15.4	I	C	10	N	a.a., several partings excl., partings fizzy
	167.05	167.40	0.35	0.00	0%	167.05	167.40	0.35	0.00	0%					LO			
11	167.40	169.40	2.00	1.90	95%	167.40	169.40	2.00	1.90	95%								
	167.40	168.40	1.00	1.00	100%	167.40	168.40	1.00	1.00	100%		R339292	20.4	I	C	10	Y	v soft w firm to hard bands, dull w shiny flakes
	168.40	169.30	0.90	0.90	100%	168.40	169.30	0.90	0.90	100%		R339293	18	I	C	10	Y	a.a., drier and chunky pieces

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
	169.30	169.40	0.10	0.00	0%	169.30	169.40	0.10	0.00	0%					LO			
12	169.40	171.40	2.00	2.00	100%	169.40	171.40	2.00	2.00	100%								
	169.40	170.40	1.00	1.00	100%	169.40	170.40	1.00	1.00	100%		R339294	19.8	I	C	10	Y	v soft w v hard bands, rock frags excl., fizzy
	170.40	171.40	1.00	1.00	100%	170.40	171.40	1.00	1.00	100%		R339295	23.2	I	C	10	Y	a.a.
13	171.40	173.40	2.00	0.75	38%	171.40	173.40	2.00	0.75	38%								
	171.40	172.15	0.75	0.75	100%	171.40	172.15	0.75	0.75	100%		R339296		I	C	10	Y	v soft/flaky to v hard, fizzy
	172.15	173.40	1.25	0.00	0%	172.15	173.40	1.25	0.00	0%					LO			
14	173.40	175.40	2.00	1.90	95%	173.40	175.40	2.00	1.90	95%								
	173.40	173.65	0.25	0.25	100%	173.40	173.65	0.25	0.25	100%		R339296	21.8	B	C	10	Y	soft w chunky pieces
	173.65	174.65	1.00	1.00	100%	173.65	174.65	1.00	1.00	100%				I	C	10	N	soft with fir, bands, dull, cleavage parallel to core normal.
	174.65	175.30	0.65	0.65	100%	174.65	175.30	0.65	0.65	100%				I	C	10	Y	Super hard, dense coal, very fizzy, gassy. Sheared and fractured 80 degrees to BCN, slickensided.
	175.30	175.40	0.10	0.00	0%	175.30	175.40	0.10	0.00	0%					LO			
15	175.40	177.40	2.00	0.00	0%	175.40	177.40	2.00	0.00	0%								no recovery
	175.40	177.40	2.00	0.00	0%	175.40	177.40	2.00	0.00	0%					LO			
16	177.40	179.40	2.00	0.90	45%	177.40	179.40	2.00	0.90	45%								
	177.40	177.60	0.20	0.20	100%	177.40	177.60	0.20	0.20	100%				B	Cm		N	v broken w nlocky/small fg pieces of Cm . Blk , med hardness. Sheared &shiny. Carboneous material
	177.60	178.10	0.50	0.50	100%	177.60	178.10	0.50	0.50	100%				B	Cm/Co		N	Cm as above some v small pieces of soft, sheared Co
	178.10	178.30	0.20	0.20	100%	178.10	178.30	0.20	0.20	100%				B	Cm/Ms		N	More competent Ms. W zone in betweem of broken Cm. Ms, brown. Sheared
	178.30	179.40	1.10	0.00	0%	178.30	179.40	1.10	0.00	0%					LO			
17	179.40	181.40	2.00	1.95	98%	179.40	181.40	2.00	1.95	98%								
	179.40	179.50	0.10	0.10	100%	179.40	179.50	0.10	0.10	100%				B	Cm		N	v broken, soft, sheared, flakey. Blk w brown streeak. Sharp contact w hard hard Co
	179.50	179.75	0.25	0.25	100%	179.50	179.75	0.25	0.25	100%		R339299	21.2	I	Co	10	Y	v hard Co. Intact and v competent extremely gassy and strong HCL reaction. Dull, bright band seen when broken. Sharp contact w soft fg Co
	179.75	180.50	0.75	0.75	100%	179.75	180.50	0.75	0.75	100%		R339299		I	Co	10	N	v fg Co v soft some larger flakey pieces v sheared
	180.50	181.35	0.85	0.85	100%	180.50	181.35	0.85	0.85	100%	65	R339300	15.4	B/I	Co	10	N	as aboove. Fracture through Co @ 65 BCN bottom of run was intact before being broken out of the shoe
	181.35	181.40	0.05	0.00	0%	181.35	181.40	0.05	0.00	0%					LO			
18	181.40	183.40	2.00	1.60	80%	181.40	183.40	2.00	1.60	80%								*suspected loss @ top
	181.40	181.55	0.15	0.15	100%	181.40	181.55	0.15	0.15	100%		R339300		B	Co	10	N	v fg Co w soft larger pieces ~1cm Dull
	181.55	182.55	1.00	1.00	100%	181.55	182.55	1.00	1.00	100%		R341284	21	I	Co	10	Y/N	top 59cm Co, as above. No HCL reaction bottom 41 cm. Co v hard, dull w bright bands v gassy w strong HCL reaction
	182.55	183.00	0.45	0.45	100%	182.55	183.00	0.45	0.45	100%	55	R341285	18.6	B/I	Co	10	Y	becoming less hard, Co as above. Sheared @ 55BCN. Bottom broken out of shoe
	183.00	183.40	0.40	0.00	0%	183.00	183.40	0.40	0.00	0%					LO			
19	183.40	185.40	2.00	1.50	75%	183.40	185.40	2.00	1.50	75%								suspected loss @ top
	183.40	183.95	0.55	0.55	100%	183.40	183.95	0.55	0.55	100%		R341285		B/I	Co	10	Y	top 20cm v broken. Co soft, dull, sheared. Next 35 cm. hard Co v gassy. W ~ 1cm Vugs . Strong HCL reaction sheared distinctly @ 45 BCN
	183.95	184.50	0.55	0.55	100%	183.95	184.50	0.55	0.55	100%		R341286	19	I	Co/Ms	10	Y	Grades into v dirty Co zone pieces of Ms > 1cm
	184.50	184.90	0.40	0.40	100%	184.50	184.90	0.40	0.40	100%		R341286		B/I	Co	10	Y	sharp contact w hard Co as seen above @ 45 BCN slickensides seen on sheared faces. Bright banding. PY infilling v prevailent
	184.90	185.40	0.50	0.00	0%	184.90	185.40	0.50	0.00	0%					LO			
20	185.40	187.40	2.00	1.70	85%	185.40	187.40	2.00	1.70	85%								
	185.40	186.40	1.00	1.00	100%	185.40	186.40	1.00	1.00	100%		R341287	19.6	B/I	Co	10	Y	fg Co w ~ 1-2cm pieces of Co v gassy
	186.40	187.10	0.70	0.70	100%	186.40	187.10	0.70	0.70	100%		R341288	13.2	B/I	Co	10	Y	top 15 cm as above Next 35 cm harder sheared @ 45, v gassy w vugs Dull w bright bands. Bottom v broken
	187.10	187.40	0.30	0.00	0%	187.10	187.40	0.30	0.00	0%					LO			

Run #	Driller's Depths From	To	Interval	Recovered m	%	Corrected Depths From	To	Interval	Recovered m	%	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
21	187.40	189.40	2.00	1.90	95%	187.40	189.40	2.00	1.90	95%				B				*suspected loss at top. Carb. Mud, softy, sheared, flakey. Fg material possibly some fg Co. A contact w Co not seen. Probably grades into Cm
	187.40	188.60	1.20	1.20	100%	187.40	188.60	1.20	1.20	100%				B	CM			broken Ms. Brown w brown streak. Soft sheared
	188.60	189.30	0.70	0.70	100%	188.60	189.30	0.70	0.70	100%					MS			
	189.30	189.40	0.10	0.00	0%	189.30	189.40	0.10	0.00	0%					LO			
																		EOH

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-33**					
Northing:					**UTM System:**	
Easting:						
Elevation:						

	Driller's Coring Info					
					Recovered	
Run #	from	to	Interval	Interval OK	m	%
1	148.00	149.40	1.40		1.70	121%
2	149.40	151.40	2.00	ok	1.80	90%
3	151.40	153.40	2.00	ok	2.00	100%
4	153.40	155.40	2.00	ok	1.50	75%
5	155.40	157.40	2.00	ok	1.75	88%
6	157.40	159.40	2.00	ok	0.00	0%
7	159.40	161.10	1.70	ok	1.60	94%
8	161.10	163.40	2.30	ok	1.45	63%
9	163.40	165.40	2.00	ok	1.45	73%
10	165.40	167.40	2.00	ok	1.65	83%
11	167.40	169.40	2.00	ok	1.90	95%
12	169.40	171.40	2.00	ok	2.00	100%
13	171.40	173.40	2.00	ok	0.75	38%
14	173.40	175.40	2.00	ok	1.90	95%
15	175.40	177.40	2.00	ok	0.00	0%
16	177.40	179.40	2.00	ok	0.90	45%
17	179.40	181.40	2.00	ok	1.95	98%
18	181.40	183.40	2.00	ok	1.60	80%
19	183.40	185.40	2.00	ok	1.50	75%
20	185.40	187.40	2.00	ok	1.70	85%
21	187.40	189.40	2.00	ok	1.90	95%
Total	148.00	189.40	41.40		31.00	75%

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-33**															
Northing:	5502198.000			**UTM System:**				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	9m	Foraco Rig 104: Driller(D) Jason Whitten, (N) Jason Waldner
Easting:	**661203**							**Hole Type:**	6 inch/15cm core			**Seam:**	**10.00**		**Core point:**	**148m**	
Elevation:	**1394**											**Total Depth:**	**189.4**				
								Logged by:	BCL/ML			**Date:**	**2016-07-07**				

	Driller's Coring Info					Interval Corrected to Log						Sample Mass		Lith Code	Seam	Acid Test	
				Recovered												Fizz	
Run #	from	to	interval	m	%	from	to	Length (m)	Lost (m)	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
1	148	149.4		1.70									B	**mst**		**Y**	**grey/black, fractured 30 BCN, slickensided, little fizz on calcite veins, minor carb stringers**
				0.8									B	**mst**		**N**	**a.a., sharp contact(hw)**
				1							R339280	24	I	C	10	N	mostly dull, firm w more resistant bands
				1							R339281	19	I	C	10	N	a.a.
				1							R339282	20.4	I	C	10	N	a.a.
				1							R339283	16.8	B/I	C	10	N	a.a, broken @ top, 20cm carb parting excl.
				0.5							R339284		I	C	10	N	a.a., broken @ bottom, center of run intact, firmer/blockier towards bottom of run
				0.5							R339284	20.8	I	C	10	N	dull powdery w shiny flakes, v soft, 10cm parting excl..
				1							R339285	21.4	I	C	10	N	a.a., moist
				0.25							R339286		I	C	10	N	a.a., much drier than above
6	157.4	159.4		0													no recovery
				0.7							R339286	20	I	C	10	N	v soft, powdery, dull
				0.9							R339287	21.6	I	C	10	N	a.a., cuts like butter, drier at bottom of run, excl some rock frags
				1							R339288	19.6	I	C	10	Y	v soft w firm bands, dull w shiny flakes, little fizz
				0.45							R339289		I	C	10	Y	firm bands becoming thicker, pieces chunky
				0.2										mst			carb mst excl.
				0.6							R339289	18	I	C	10	N	v soft, mostly powder w small flakes
				0.65							R339290		I	C	10	N	a.a., 15cm parting and rock frags excl.
				0.4							R339290	20.6	I	C	10	N	v soft, dull powder w shiny flakes
				1.25							R339291	15.4	I	C	10	N	a.a., several partings excl., partings fizzy
				1							R339292	20.4	I	C	10	Y	v soft w firm to hard bands, dull w shiny flakes
				0.9							R339293	18	I	C	10	Y	a.a., drier and chunky pieces
				1							R339294	19.8	I	C	10	Y	v soft w v hard bands, rock frags excl., fizzy
				1							R339295	23.2	I	C	10	Y	a.a.
				0.75							R339296		I	C	10	Y	v soft/flaky to v hard, fizzy
				0.25							R339296	21.8	B	C	10	Y	soft w chunky pieces
				1							R339297	20		C			
				0.65							R339298	17		C			
				0.2									B	Cm		N	v broken w nlocky/small fg pieces of Cm . Blk , med hardness. Sheared &shiny. Carboneous material
				0.5									B	Cm/Co		N	Cm as above some v small pieces of soft, sheared Co
				0.2									B	Cm/Ms		N	More competent Ms. W zone in betweem of broken Cm
				0.1									B	Cm		N	v broken, soft, sheared, flakey. Blk w brown streeak. Sharp contact w hard hard Co

Run #	Driller's Coring Info from	to	interval	Recovered m	%	Interval Corrected to Log from	to	Length (m)	Lost (m)	BCN	Sample #	Sample Mass (kg)	Core Quality	Lith Code	Seam	Acid Test Fizz Y/N?	Description
				0.25							R339299	21.2	I	C	10	Y	v hard Co. Intact and v competent extremely gassy and strong HCL reaction. Dull, bright band seen when broken. Sharp contact w soft fg Co
				0.75							R339299		I	C	10	N	v fg Co v soft some larger flakey pieces v sheared
				0.85						65	R339300	15.4	B/I	C	10	N	as aboove. Fracture through Co @ 65 BCN bottom of run was intact before being broken out of the shoe
				0.15							R339300		B	C	10	N	v fg Co w soft larger pieces ~1cm Dull
				1							R341284	21	I	C	10	Y/N	top 59cm Co, as above. No HCL reaction bottom 41 cm. Co v hard, dull w bright bands v gassy w strong HCL reaction
				0.45						55	R341285	18.6	B/I	C	10	Y	becoming less hard, Co as above. Sheared @ 55BCN. Bottom broken out of shoe
				0.55							R341285		B/I	C	10	Y	top 20cm v broken. Co soft, dull, sheared. Next 35 cm. hard Co v gassy. W ~ 1cm Vugs . Strong HCL reaction sheared distinctly @ 45 BCN
				0.55							R341286	19	I	C	10	Y	Grades into v dirty Co zone pieces of Ms > 1cm
				0.4							R341286		B/I	C	10	Y	sharp contact w hard Co as seen above @ 45 BCN slickensides seen on sheared faces. Bright banding. PY infilling v prevailent
				1							R341287	19.6	B/I	C	10	Y	fg Co w ~ 1-2cm pieces of Co v gassy
				0.7							R341288	13.2	B/I	C	10	Y	top 15 cm as above Next 35 cm harder sheared @ 45, v gassy w vugs Dull w bright bands. Bottom v broken
				1.2									B	Ms			broken Ms. Brown w brown streak. Soft sheared
				0.7										MS			EOH
Total	148	189.4	41.4	31.00	75%												
Recovered Rock			5.6	5.6	100%												
Recovered Coal			35.80	25.40	71%							505.80	64%				

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-34**																	
Northing:	5501941.30			**UTM System:**	NAD83				**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**	**9**	Foraco Rig 104
Easting:	**660791.01**								**Hole Type:**	6 inch/15cm core			**Seam:**	**20**		**Core point:**	**97**	Drillers: Jason Whitten/Jason Waldner
Elevation:	1355.16												**Total Depth:**	**119**				
									Logged by:	BL/ML			**Date:**	**16/07/09-10**				

	Driller's Depths					Corrected Depths												
				Recovered					Recovered				Sample Mass		Lith Code	Seam	Acid Test	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	**BCN**	**Sample #**	(kg)	**Core Quality**			Fizz Y/N?	**Description**
1	96.80	98.00	1.20	1.20	100%													
	96.80	98.00	1.20											B/I	MST		N	grey-black MST, fractured, slickensided, carb. Material in stringers
2	98.00	99.50	1.50	1.50	100%													
				0.30		98.00	98.30	0.30	0.30	100%					MST			aa (HW)
				1.20		98.30	99.50	1.20	1.20	100%		D144740	31.4	I	CO	20		blocky, dull, v soft
3	99.50	101.00	1.50	1.50	100%													
				1.00		99.50	100.50	1.00	1.00	100%		741	21	I	CO	20	N	dull, shiny on cleavage
				0.50		100.50	101.00	0.50	0.50	100%		742	26.4	I	CO	20	N	aa
4	101.00	102.50	1.50	1.50	100%													
				0.50		101.00	101.50	0.50	0.50	100%		742		I	CO	20	Y	Dull w bright hard bands. Soft/ sheared. Mud bands @ 28cm (2cm thick). Minor HCL rxn in small spot
				1.00		101.50	102.50	1.00	1.00	100%		743	25	I	CO	20	N	Co as above. Broken @ bottom of run (shoe)
5	102.50	104.00	1.50	1.50	100%													
				1.00		102.50	103.50	1.00	1.00	100%		744	19.6	I	CO	20	N	soft, shear4ed, dull, broken close to parting sharp contact 30BCN
				0.25		103.50	103.75	0.25	0.25	100%	30			B	MS		N	broken Ms. Brown w brown streak
				0.25		103.75	104.00	0.25	0.25	100%		745	32.4	B/I	CO	20	N	sharp contact w v fg Co. Med hardness w bright bands, bottom softer, dull. Broken out of shoe
6	104.00	105.50	1.50	1.50	100%													
				0.75		104.00	104.75	0.75	0.75	100%		745		I	CO	20	N	Dull, sift, sheared, w bright hard bands
				0.75		104.75	105.50	0.75	0.75	100%		746	29.8	B/I	CO	20	N	Co as above. Bottom broken out of shoe
7	105.50	107.00	1.50	1.50	100%													
				0.25		105.50	105.75	0.25	0.25	100%		746		B/I	CO	20	N	Co as prev run
				1.00		105.75	106.75	1.00	1.00	100%		747	24.2	B/I	CO	20	N	Co aa
				0.25		106.75	107.00	0.25	0.25	100%		748	21.6	B/I	CO	20	N	Co aa
8	107.00	108.50	1.50	1.50	100%													
				0.75		107.00	107.75	0.75	0.75	100%		748		I	CO	20	N	Co as prev run
				0.75		107.75	108.50	0.75	0.75	100%		749	22.2	B/I	CO	20	N	Co aa
9	108.50	110.00	1.50	1.50	100%													
				0.25		108.50	108.75	0.25	0.25	100%		749		B/I	CO	20	N	Co as prev run
				1.00		108.75	109.75	1.00	1.00	100%		750	20.4	B/I	CO	20	N	Co aa
				0.25		109.75	110.00	0.25	0.25	100%		D146242	25.4	B/I	CO	20	N	Co aa
10	110.00	111.50	1.50	1.50	100%													
				0.85		110.00	110.85	0.85	0.85	100%		242		I	CO	20	N	Co as prev run
				0.05		110.85	110.90	0.05	0.05	100%				B	MS		N	fracture zone. Ms broken to small angular pieces ~ 1-4cm in size

Run #	Driller's Depths					Corrected Depths					BCN	Sample #	Sample Mass	Core Quality	Lith Code	Seam	Acid Test	Description
				Recovered					Recovered								Fizz	
	From	To	Interval	m	%	From	To	Interval	m	%			(kg)				Y/N?	
				0.60		110.90	111.50	0.60	0.60	100%		243	28.2	B/I	CO	20		Co aa
11	111.50	113.00	1.50	1.50	100%													
				0.40		111.50	111.90	0.40	0.40	100%		243		I	CO	20	N	Co as prev run
				1.00		111.90	112.90	1.00	1.00	100%		244	22.8	I	CO	20	N	Co aa
				0.10		112.90	113.00	0.10	0.10	100%		245	23.6	B	CO	20	N	Co aa
12	113.00	114.50	1.50	1.50	100%													
				0.90		113.00	113.90	0.90	0.90	100%		245		I	CO	20	N	Co as prev run
				0.60		113.90	114.50	0.60	0.60	100%		246	28.6	B/I	CO	20	N	Co aa. ~ 2cm parting (MS) @ 114.3m
13	114.50	116.00	1.50	1.50	100%													
				0.40		114.50	114.90	0.40	0.40	100%		246		I	CO	20	N	Co as prev. run
				1.00		114.90	115.90	1.00	1.00	100%		247	22.4	I	CO	20	N	Co aa
				0.10		115.90	116.00	0.10	0.10	100%		248	26	B	CO	20	N	Coaa
14	116.00	117.50	1.50	1.50	100%													
				0.90		116.00	116.90	0.90	0.90	100%		248		I	CO	20	N	Co as prev run
				0.60		116.90	117.50	0.60	0.60	100%		249	17.2	B/I	CO	20	N	Co aa. ~1.5cm Mudbands @ 117.3m
15	117.50	119.00	1.50	1.50	100%													
				0.20		117.50	117.70	0.20	0.20	100%		249		B	CO	20	N	Co as prev. run. Grades into Cm/Ms
				0.15		117.70	117.85	0.15	0.15	100%				B	CM/MS		N	intermixed Cm/Ms. Sharp contact w Ms
				0.60		117.85	118.45	0.60	0.60	100%				B/I	MS		N	brown .v soft, sheared, clayey
				0.55		118.45	119.00	0.55	0.55	100%				B/I	MS		N	greyish-brown. harder, silty
																		EOH

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-34**				
Northing:				**UTM System:**	
Easting:					
Elevation:					

	Driller's Depths				
				Recovered	
Run #	**From**	**To**	**Interval**	**m**	**%**
1	96.80	98.00	1.20	1.20	100%
2	98.00	99.50	1.50	1.50	100%
3	99.50	101.00	1.50	1.50	100%
4	101.00	102.50	1.50	1.50	100%
5	102.50	104.00	1.50	1.50	100%
6	104.00	105.50	1.50	1.50	100%
7	105.50	107.00	1.50	1.50	100%
8	107.00	108.50	1.50	1.50	100%
9	108.50	110.00	1.50	1.50	100%
10	110.00	111.50	1.50	1.50	100%
11	111.50	113.00	1.50	1.50	100%
12	113.00	114.50	1.50	1.50	100%
13	114.50	116.00	1.50	1.50	100%
14	116.00	117.50	1.50	1.50	100%
15	117.50	119.00	1.50	1.50	100%
Total	96.80	119.00	22.20	22.20	100%

CanAus Coal Ltd.

Large Diameter (6") Core Description

Hole:	**LR16CC-34**																	
Northing:				**UTM System:**					**Hole Orientation:**	Vertical			**Property:**	**Loop Ridge**		**Cased to:**		
Easting:									**Hole Type:**	6 inch/15cm core			**Seam:**			**Core point:**		
Elevation:													**Total Depth:**					
									Logged by:				**Date:**					

	Driller's Depths					Corrected Depths							Sample Mass		Lith Code	Seam	Acid Test	
				Recovered					Recovered								Fizz	
Run #	**From**	**To**	**Interval**	**m**	**%**	**From**	**To**	**Interval**	**m**	**%**	BCN	Sample #	(kg)	Core Quality			Y/N?	Description
	96.80	98.00	1.20	1.20	100%										**MST**			
			0.00	0.30	#DIV/0!										**MST**			
			0.00	1.20	#DIV/0!							D144740	31.4		CO			
			0.00	1.00	#DIV/0!							741	21		CO			
			0.00	0.50	#DIV/0!							742	26.4		CO			
			0.00	0.50	#DIV/0!							742			CO			
			0.00	1.00	#DIV/0!							743	25		CO			
			0.00	1.00	#DIV/0!							744	19.6		CO			
			0.00	0.25	#DIV/0!										MS			
			0.00	0.25	#DIV/0!							745	32.4		CO			
			0.00	0.75	#DIV/0!							745			CO			
			0.00	0.75	#DIV/0!							746	29.8		CO			
			0.00	0.25	#DIV/0!							746			CO			
			0.00	1.00	#DIV/0!							747	24.2		CO			
			0.00	0.25	#DIV/0!							748	21.6		CO			
			0.00	0.75	#DIV/0!							748			CO			
			0.00	0.75	#DIV/0!							749	22.2		CO			
			0.00	0.25	#DIV/0!							749			CO			
			0.00	1.00	#DIV/0!							750	20.4		CO			
			0.00	0.25	#DIV/0!							D146242	25.4		CO			
			0.00	0.85	#DIV/0!							242			CO			
			0.00	0.05	#DIV/0!										MS			
			0.00	0.60	#DIV/0!							243	28.2		CO			
			0.00	0.40	#DIV/0!							243			CO			
			0.00	1.00	#DIV/0!							244	22.8		CO			
			0.00	0.10	#DIV/0!							245	23.6		CO			
			0.00	0.90	#DIV/0!							245			CO			
			0.00	0.60	#DIV/0!							246	28.6		CO			
			0.00	0.40	#DIV/0!							246			CO			
			0.00	1.00	#DIV/0!							247	22.4		CO			
			0.00	0.10	#DIV/0!							248	26		CO			
			0.00	0.90	#DIV/0!							248			CO			
			0.00	0.60	#DIV/0!							249	17.2		CO			
			0.00	0.20	#DIV/0!							249			CO			
			0.00	0.15	#DIV/0!										CM/MS			

Run #	Driller's Depths					Corrected Depths					BCN	Sample #	Sample Mass	Core Quality	Lith Code	Seam	Acid Test	Description
				Recovered					Recovered								Fizz	
	From	To	Interval	m	%	From	To	Interval	m	%			(kg)				Y/N?	
			0.00	0.60	#DIV/0!										MS			
			0.00	0.55	#DIV/0!										MS			
Total	96.80	119.00	22.20	22.20	100%													
Recovered rock			3.10	3.10	100%													
Recovered coal			19.10	19.10	100%								468.20	111%	rec by mass at 22kg/m			

Appendix C - Sample Summary

Seam	Sample ID	Description	Date
LR10	A04301	As-received	27-07-2016
LR10	A04348	Flot Conc Blend	09-08-2016
LR10	A04398	Spiral Conc Blended	17-08-2016
LR10	A04400	Spiral Midds Blended	17-08-2016
LR10	A04428	HMC Float Blended	01-09-2016
LR10	A04337	FINAL PRODUCT	08-09-2016
LR11	A04316	As-received	29-07-2016
LR11	A04360	Flot Conc Blend	11-08-2016
LR11	A04420	Spiral Midds Blended	18-08-2016
LR11	A04422	Spiral Conc Blended	18-08-2016
LR11	A04447	HMC REWASH FLOAT	14-09-2016
LR11	A04465	FINAL PRODUCT	22-09-2016
LR18	A04321	As-received	01-08-2016
LR18	A04358	Flot Conc Blend	10-08-2016
LR18	A04412	Spiral Conc Blended	18-08-2016
LR18	A04414	Spiral Midds Blended	18-08-2016
LR18	A04451	HMC Float Blended	14-09-2016
LR18	A04468	FINAL PRODUCT	22-09-2016
LR20	A04306	As-received	28-07-2016
LR20	A04345	Flot Conc Blend	08-08-2016
LR20	A04401	Spiral Conc Blended	17-08-2016
LR20	A04404	Spiral Midds Blended	17-08-2016
LR20	A04449	HMC Float Blended	14-09-2016
LR20	A04459	FINAL PRODUCT	21-09-2016
LR Blend	A04470	FINAL PRODUCT	23-09-2016
LR Blend	A04482	FINAL PRODUCT	25-10-2016

*as received samples represent a composite of all individual seam samples from each core hole.

Appendix E - Analytical and Processing Guidelines

Samples are to be maintained in refrigerated storage prior to processing

For each feed, lay the material onto the floor and homogenise with shovels.

If there is a small content of coarse particles, reduce their size manually by hand knapping.

If there is excessive coarse content, it might be necessary to reduce particle size with the role crusher set at about 25mm to 40mm topsize, prior to homogenising.

Reduce the feed to 15mm topsize with the roll crusher.

During the crushing phase, manually sample out a 50kg subsample which will be sent to GWIL.

If the roll crushing phase has to be repeated several times, make sure the 50kg subsample represents all phases of the crushing.

GWIL 50kg

The subsample needs to be freighted overnight to GWIL.

Subsample out a portion and analyse for:

Proximates, FSI, ash chemistry.

Subsample out a portion and wet size at 2mm and 0.25mm.

The +2mm and -2mm+0.25mm fractions are to float sunk at 1.30, 1.35, 1.40, 1.45, 1.50, 1.60, 1.80, 2.00 densities.

Proximates on each density fraction, and fractional FSI up to F1.60.

The -0.25mm fraction is to receive starvation lab flotation.

Proximates on each flotation fraction, FSI on the froths only.

Instructions will be provided to GWIL on a clean coal sample constructions.

Analysis on the clean coal sample is yet to be finalised.

Main Feed Sample

Wet sizing phase at 2mm and 0.25mm.

This can proceed on before we get data back from GWIL.

The +2mm fraction can be part dried on the floor to reduce moisture content

Place the coarse fraction back into refrigeration.

The -2mm+0.25mm can be stored in drums saturated with water in a cool place outside refrigeration

Collect the -0.25mm pulp in large tanks. Drain the supernatant off after about one day and transfer the concentrated pulp into manageable size containers. These can be stored for up to a week on the floor in a cool area.

Generally, coal particles (even very fine ones) settle quite quickly.

Clays don't. It doesn't matter if the supernatant has a hazy clay look to it.

Processing Sized Samples

No processing is to be undertaken prior to receipt of the analysis on the head subsample, from GWIL.

When processing of each sizing is complete, cut out a subsample to be sent to GWIL:

20kg +2mm product, note we may wash at 2 densities

10kg -2mm+0.25mm product and middlings

5kg -0.25mm product

Product Construction

No product construction is to be undertaken prior to receipt of the analysis on the head subsample, from GWIL.

Products can be constructed and homogenised on the floor with shovels and rakes.

Each product will be approximately 500kg in dry mass.

The product will be divided into three subsamples of typical mass:

30kg to ALS Australia

20kg to GWIL for analysis

450kg to CANMET for pilot scale carbonisation

Appendix F – Statement of Costs

2016 Loop Ridge Exploration		
Statement of Costs		
Major Budget Items	**Contractor**	**Total ($)**
Drilling	Good Earth Drilling	185,609
	Foraco International	445,043
	Subtotal	**630,652**
Technical Services	Leeder Consulting Inc.	2,975
	Century Wireline	18,375
	Silenus Resources Management	4,037
	Bob Leach Pty.	83,101
	Cameron Enterprises	2,547
	Align Surveys Ltd.	1,012
	Subtotal	**112,046**
Analytical	Hazen Research (pilot wash)	228,679
	Birtley Coal & Minerals Testing	59,728
	Elk Valley Environmental Services	117
	Pearson & Associates	6,650
	Canmet	42,053
	ACIRL Pty Ltd. (ALS)	72,908
	Subtotal	**410,134**
Heavy Equipment	Down to Earth Excavating	13,361
	Subtotal	**13,361**
Safety	Trucut Logging (1st Aid)	33,320
	Subtotal	**33,320**
Licences and Permits	Ministry of Finance (BC)	3,625
	Jemi Fibre (option fee)	40,000
	CPR (road crossing)	100
	Subtotal	**43,725**
Personnel	CanAus Geologists (contract)	30,940
	Subtotal	**30,940**
Miscellaneous	Drilling Supplies & travel costs	30,934
	Manitoulin Transport (samples)	6,201
	Hexagon Software	36,056
	Subtotal	**73,191**
Total		**1,347,369**