

Technical Report

Buckingham Graphite Project

Quebec, Canada



Prepared for:



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1. Summary

The Buckingham graphite property (the “Property”) is located seven kilometres northwest of the town of Buckingham in south west Quebec, Canada and 22 kilometres north east of Ottawa, Ontario. The company owns a 100% interest in the Buckingham property subject to a 3% NSR granted to the Vendor. The Company has the right to repurchase 1% of the NSR for \$1,000,000.

Access to the Property is by paved roads from the town of Buckingham followed a combination of gravel roads and logging roads lead from *Chemin* River to the Property and the logging which provide access to different parts of the Property.

The property is primarily underlain by paragneiss and marble of the Central Metasedimentary Belt of the Grenville Province. Two zones of graphite mineralization, the Case Zone and the Uncle Zone have been identified. The Case Zone is comprised mainly of quartzo-feldspathic paragneiss intercalated with quartzite and marble and contains mostly flake type graphite. The geology underlying the Uncle Zone is comprised primarily of undifferentiated skarns, marble and pegmatite, and contains lump or vein style graphite mineralization.

Work to date has mainly focussed on the Case Zone after preliminary investigations of the Uncle Zone. An airborne TDEM survey showed seven anomalies, including a 1.5km long conductor that extends the potential of the Case Zone to the South. Follow up trenching and drilling targeted the TDEM anomalies and found graphite mineralization associated with paragneiss and marble, with the highest grades typically hosted by marble. In addition to the surface mineralization seen in outcrop and in trenches, up to three discrete zones of graphite mineralization were intersected in the drilling, although most of the graphite was encountered at vertical depths less than 64 metres.

Recommended follow up work includes a Phase 1 of mapping and trenching to extend the mineralization along strike to the south of the previous work along the EM conductor and metallurgical testing of a bulk sample from the Case Zone. Dependent on results of Phase 1, a follow up infill drilling program in the northern part of the property with step outs to the south is recommended to outline an initial graphite resource. Both phases of work are budgeted at approximately \$930,000 and expected to take up to three months.

2. Introduction

This technical report was prepared at the request of Mr. Arno Brand for Gratomic Inc. (“Gratomic”) by Roger Moss, Ph.D., P.Geo. and Ms. Isabelle Robillard, M.Sc., PGeo the qualified persons responsible for the content of the report. The purpose of this report is to provide a summary of work carried out on the Buckingham project and to outline a follow up exploration program for the property.

The report has been prepared following the format and guidelines of National Instrument 43-101 Standards of Disclosure for Mineral Projects, Form 43-101F1 and Companion Policy 43-101CP of the Canadian Securities Administrators.

The primary source of information for this report is based on recent field investigations supervised by the authors. Past exploration is summarized from company reports and public geological information.

Ms. Robillard’s most recent visit was on February 28th, 2018, supervising the backfilling of trenches TR17-01 and TR17-02. She also supervised the drilling/trenching programs of 2017-2018. Dr. Moss last visited the project from June 4 to 5, 2017 for a period of 2 days.

3. Property Description, Location and Title

The Buckingham graphite property (the “Property”) is located seven kilometres northwest of the town of Buckingham in south west Quebec, Canada and 22 kilometres north east of Ottawa, Ontario (Figure 1). The Property consists of eight claim blocks (Table 1) covering an area of 480 hectares centered at approximately 459,800mE, 5,053,400mN (UTM Zone 18N, North American Datum (NAD) 83). Details of the claims comprising the property are given in Table 1 and shown in Figure 2.

Table 1. Information regarding claim blocks comprising the Property.

Title #	Area (ha)	Staking Date	Status	NTS Mapsheet
2327937	60.14	2011-12-09	Active	31G12
2327942	60.13	2011-12-09	Active	31G12
2327939	60.13	2011-12-09	Active	31G12
2327938	60.14	2011-12-09	Active	31G12
2327940	60.13	2011-12-09	Active	31G12
2327941	60.13	2011-12-09	Active	31G12
2327936	60.14	2011-12-09	Active	31G12
2327935	60.14	2011-12-09	Active	31G12

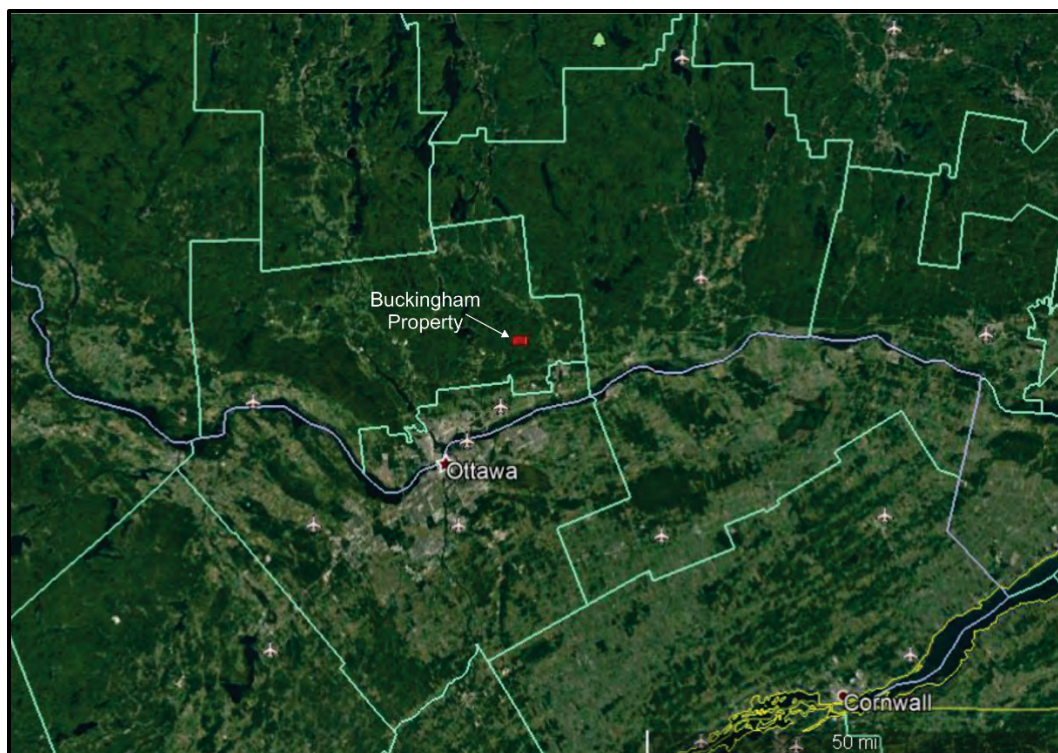


Figure 1. Location Map of Buckingham Property

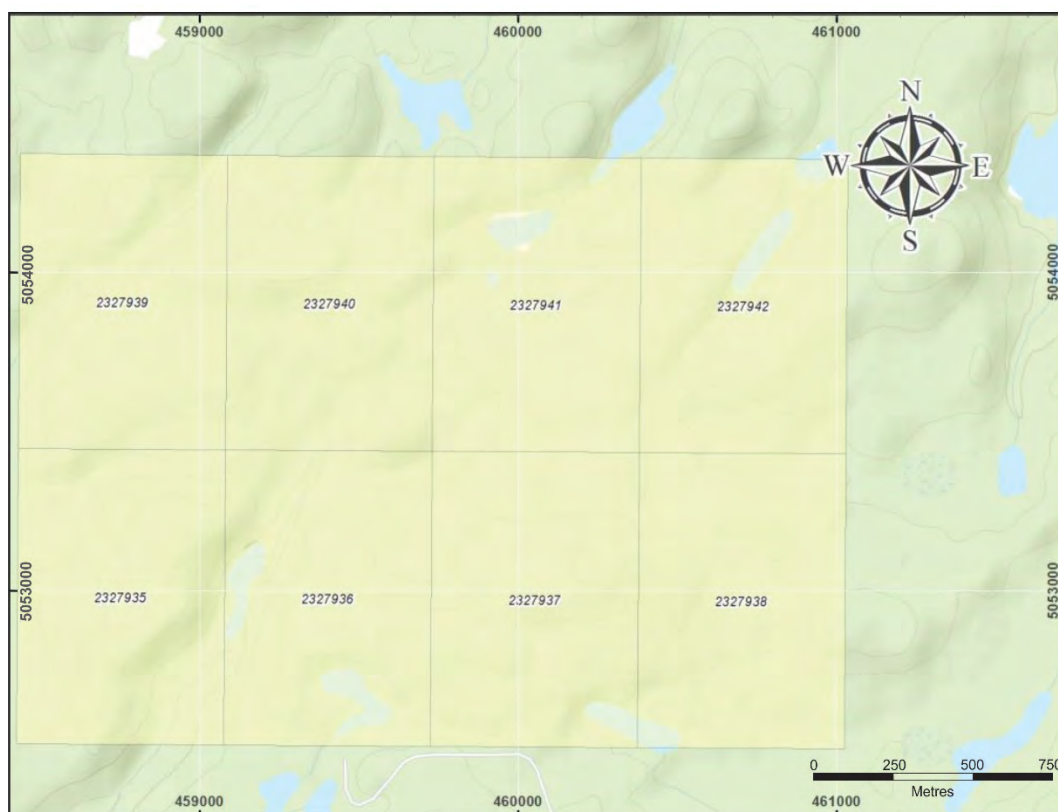


Figure 2. Detail of Claims Comprising Buckingham Property (modified from Lewis, 2015).

In February 2013, the Company (then Caribou King Resources) entered into an option agreement, amended on April 22, 2014, to acquire a 100% interest in the Buckingham property in addition to two other properties (Tac and Lac Vert) also located in the Province of Quebec. In order to acquire the 100% interest, the Company agreed to:

- i) issue 266,667 common shares (issued at a value of \$160,000);
- ii) issue 66,667 common shares by April 6, 2014 (issued at a value of \$30,000);
- iii) issue 33,333 common shares by September 16, 2014 (issued at a value of \$1,500);
- iv) issue 33,333 common shares by March 15, 2015 (issued at a value of \$4,000);
- v) spend exploration expenditures of \$40,000 on or before May 31, 2013 (incurred);
- vi) spend exploration expenditures of \$110,000 by February 25, 2016 (incurred).

The Company now owns 100% of the Buckingham property subject to a 3% NSR granted to the Vendor. The Company has the right to repurchase 1% of the NSR for \$1,000,000.

The property is on private land and permission from the owners is required prior to starting work. Fees are paid for access to the claims and for any significant disturbance of the landscape including cutting trees and drilling.

4. Accessibility, Climate, Local Resources, Infrastructure and Physiography

Access to the Property is by taking *Rue McLaren* across the *Lievre* river from the town of Buckingham followed by paved roads *Chemin Donaldson* and *Chemin River*. A combination of gravel roads and logging roads lead from *Chemin River* to the Property and the logging roads provide access to different parts of the Property. Depending on the severity of the Winter, access to the Property may be possible year-round.

The climate around Buckingham is temperate. Winter months are typically cold (average -7 to -10°C) with significant snow accumulation. The area is usually free of snow from early May to mid November. Summer months are warm with temperatures in the range 20 to 28°C. August is typically the wettest month with average rainfall of 54mm (<https://en.climate-data.org/location/5004/>).

Infrastructure in the area is very good, with paved roads and electricity to within 3km of the project. Water is available from ponds and lakes in the region. The town of Buckingham can supply basic materials, food and accommodation. Further requirements can likely be found in Ottawa, 22km southwest, that also has the largest nearby airport, with daily flights to most major centres.

The property is characterized by rolling hills with lakes and streams in the valleys. Trees are mostly spruce and pine and active logging occurs in the area covered by the claims.

5. History

The region of Buckingham is well known for its small-scale graphite exploitations that occurred between 1860 - 1920. Less than 700 m away from the east limit of the property, flaky type graphite was extracted from an adit, identified as the Walker Mine. Graphite was treated in a mill whose foundations are still present along the Devine Road. In addition, about 100 tons of vein type graphite is reported to have been extracted from 15 distinct veins (Obalski 1889), as shown by the presence of historic pits distributed southwest of the adit. Four of these historic were found in the southeast portion of the Property with small rock piles containing lump graphite next to them.

Limited work was carried out on the Buckingham property prior to Caribou King optioning the property in 2013. A heliborne EM survey (Geonics EM-33 frequency-domain EM and Geometrics G-803 proton magnetometer) was flown in 1982m, covering an area of 365 km², over the Buckingham region (Relevés Géophysique Inc, 1982). Two linear conductors (370 and 500 m in length) oriented East-West were defined in the central north portion of the property. Follow up work conducted in the mid-eighties targeted geophysical anomalies delineated north and south of the Property (Tremblay 1984). The two East-West conductors were not part of this follow-up work as they were interpreted to be caused by the overburden..

6. Geological Setting and Mineralization

6.1 Regional Geological Setting

The Property is located in the southern portion of the Grenville Province known as the Central Metasedimentary Belt (CMB). The CMB consists of steeply dipping marble and quartzite domains trending north-northeast as well as quartzo-feldspathic gneisses and Grenville-age intrusives. These rocks are metamorphosed to upper amphibolite facies (Figure 3).

Paragneiss is described as medium-grained with varying composition (quartzo-feldspathic gneiss, biotite gneiss, biotite- garnet gneiss, biotite-garnet-sillimanite gneiss and biotite hornblende gneiss).

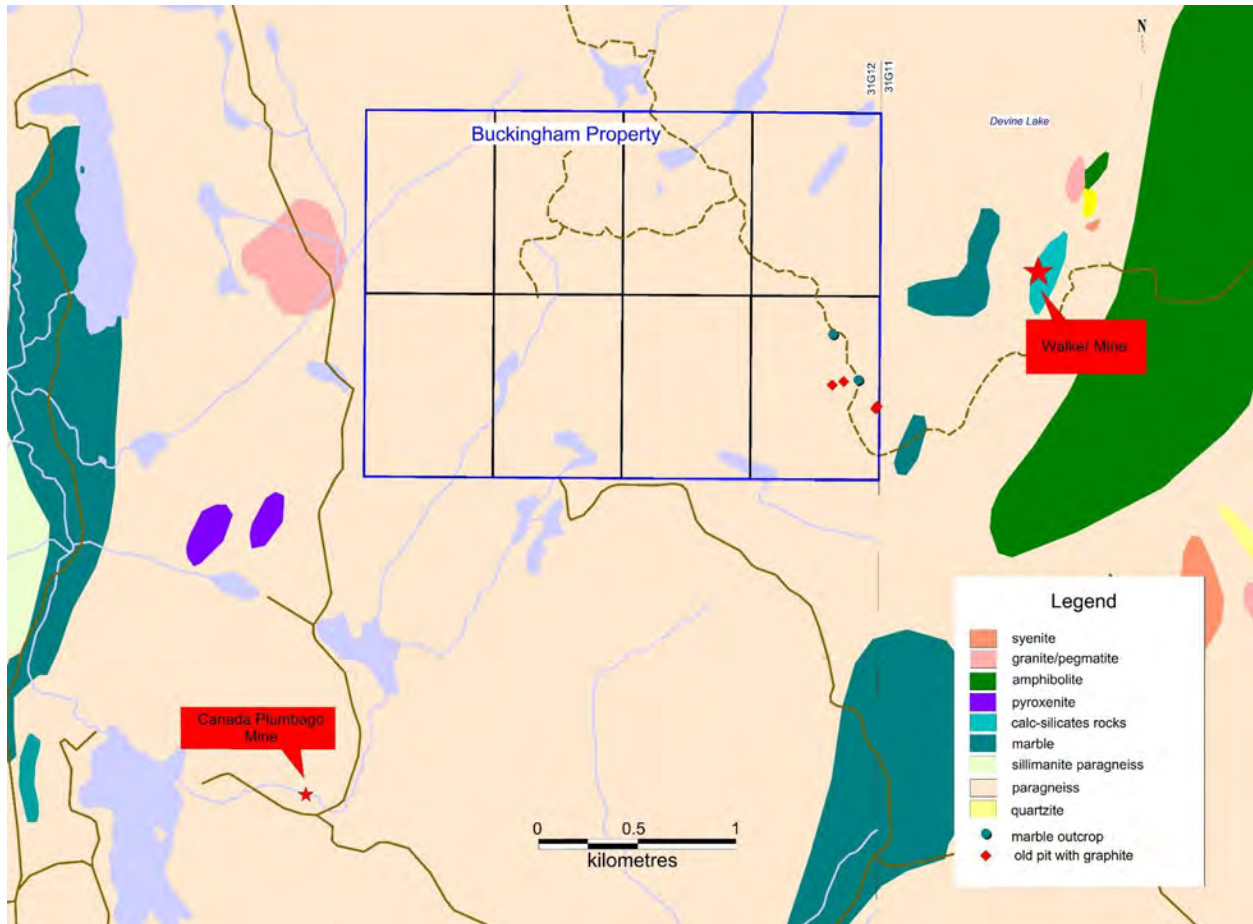


Figure 3. Regional Geology of the Buckingham region (after SIGEOM, in Robillard, 2013)

Graphite can be found in all of these compositional varieties. The paragneiss is migmatized to varying degrees and some migmatite occurrences can form mappable units. Quartzite is usually found as thin (30 cm) beds in paragneiss or marble. Medium grained marble can be found as thin beds in paragneiss or as thicker bands up to 150 metres wide. It may contain up to 15% phlogopite, diopside, graphite, scapolite or serpentine. Marbles are strongly deformed and may contain xenoliths. On a local scale, regional and contact metamorphism and metasomatism may have changed the marbles into calc- silicates rocks which are distinguished by the presence of tremolite, diopside, wollastonite, phlogopite and apatite with occasional calcite, quartz and sphene.

Many intrusives are present in the region and vary in composition from syenite to granite. Dykes and massive bodies of pegmatite which contain quartz, microcline, biotite, muscovite and tourmaline cross cut the paragneisses. Locally, mafic intrusions such as gabbro and pyroxenite are also present.

6.2 Property Geology

According to early geological mapping, the property was thought to be exclusively underlain by paragneiss (Wilson 1920). However, during field work along the road in 2013, several marble outcrops were noted as well as pegmatite outcrops close to old pits. Marble outcrops are medium grained and contain 10% mafic minerals and from 1 to 3 % xenoliths. Pegmatite is light gray in color and contains predominantly quartz and feldspar with 5-10% of mafic minerals (Robillard, 2013).

Two zones of mineralization, the Case Zone and the Uncle Zone, were identified during recent work from 2013 to 2016 by Gratomic's predecessor companies CKR Carbon and Caribou King Resources.

The geology underlying the Case Zone consists primarily of a metasedimentary sequence comprised mainly of quartzo-feldspathic paragneiss intercalated with quartzite and marble. The unit is undulating and sub-vertical with an average strike of 025-205. The unit has been mapped with an apparent thickness of at least 1,000 metres, and at least 1,200 metres along strike, where it remains open to the north and south (Figure 4). The metamorphic sequence can be followed along strike until the northern claim boundary, where it is presumed to continue beyond based on topographic relief observed from satellite photos and historic airborne electromagnetic survey data. The unit has been mapped southward to the mid- point of the claim block, where it appears to continue uninterrupted towards the south (Lewis, 2015)

The geology underlying the Uncle Zone is comprised primarily of undifferentiated skarns, marble and pegmatite, cross-cut by a north-south trending amphibolite dike. While considerable outcrop mapping has been conducted in the area a coherent structural model of the area remains weak (Lewis, 2015).

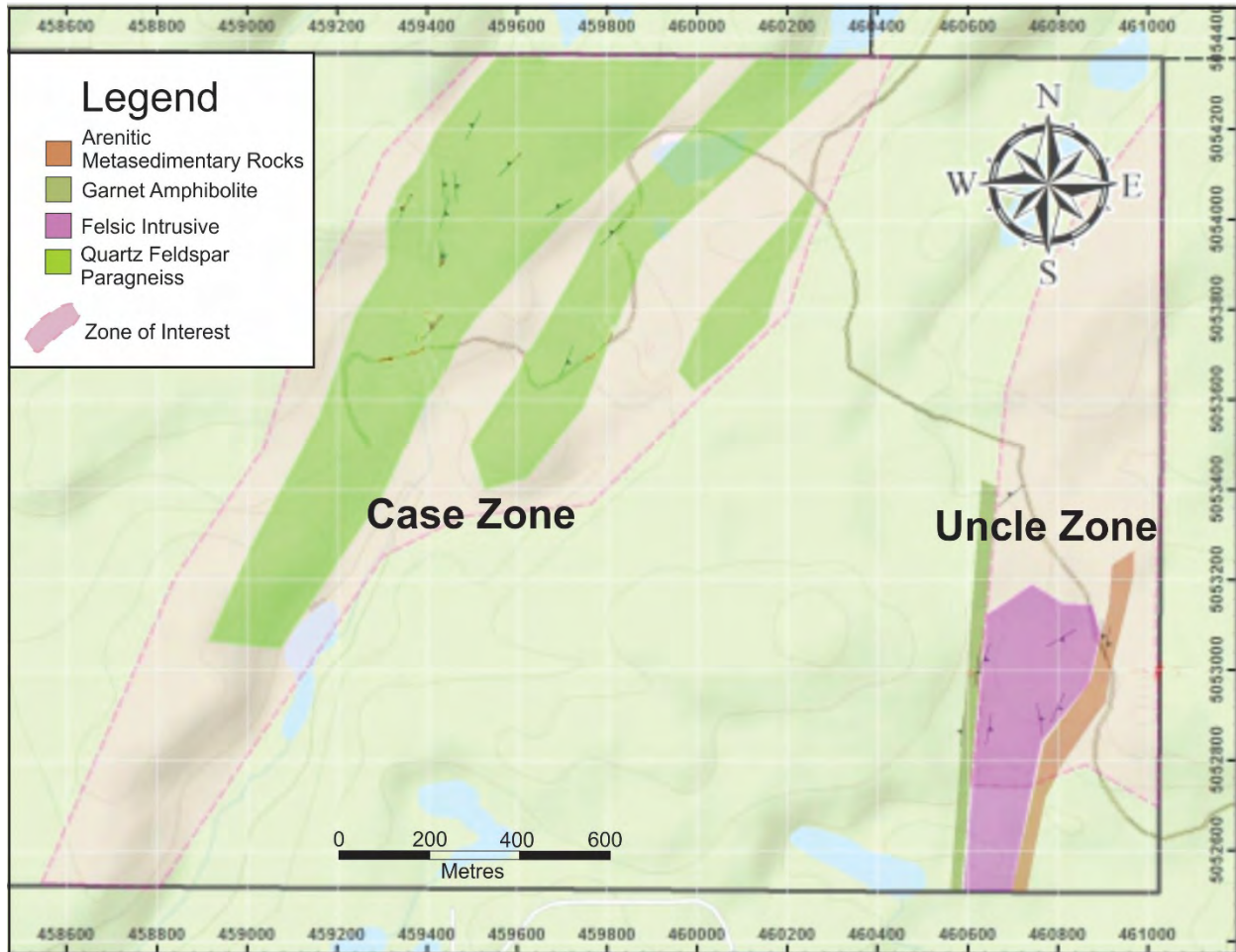


Figure 4. Geology of the Case and Uncle Zones, Buckingham graphite project.

6.2.1 Mineralisation

The graphite from the Buckingham area occurs in two different forms:

- (1) Vein or lump and
- (2) disseminated.

Lump type mineralization is composed of pure, coarse columnar or platy graphite which mainly occurs in aggregates in pegmatite or in veins hosted by marble, pegmatites or paragneiss. These veins are irregular and typically only a few inches wide but can be very high grade (Robillard, 2013).

Disseminated graphite is the dominant form of graphite in the Buckingham area and significant mineralized intercepts are hosted in marble and adjacent units (garnet-paragneiss/calc-silicate rocks), with calculated average grades ranging from 2.64% to 8.87% Cg. Within marble units, the graphite content is generally higher than 2% and contains high grade intervals (15-25% Cg) which are usually associated with a diopside-rich, fine grained rock, identified as a mafic calc-silicate rock (Robillard 2019).

Graphite flakes are variable in size, ranging from aphanitic to 4-5 mm. High grade mineralized intercepts usually contain a larger proportion of fine flakes or amorphous graphite. Graphite flakes within the marble are often millimetric and can reach more than 3 mm in size.



Figure 5. Graphite flakes in drill core from the Buckingham project.

The Uncle Zone consists of a group of discrete veins up to several cm in diameter hosting very coarse grained (generally over 1cm, up to 3cm) graphite mineralization. Grab samples of graphite taken directly from the veins has assayed in excess of 81% Cg. Vein orientations are variable with a generally east-west direction common among a few sample locations.

Mineralization has only been identified to the east of an amphibolite dike. Outcrop mapping and several traverses with a Beep Mat electromagnetic survey tool have yielded no visible mineralization nor electromagnetic anomalies to the west of this unit. (Lewis, 2015).

7. Deposit Type

Three different styles of graphite deposits are classified based on the morphology of the contained graphite: 1. Vein/lump type graphite deposits 2. flake type deposits and 3. amorphous graphite deposits (Element 12 International, 2014).

Vein type graphite, also known as lump or crystalline vein graphite, is the highly ordered crystalline graphite where crystals typically occur together in veins, rather than disseminated through the host rock.

These deposit types are believed to form by precipitation from CO₂ and CH₄ rich fluids (Rumble et al., 1986). The best examples of vein type graphite deposits occur in Sri Lanka.

Flake type graphite, also known as crystalline, contain ordered graphite crystals that are disseminated in the host rock. Flake graphite can be further divided on the basis of crystal size into: Coarse Flake 150 to 840 micrometers; fine flake 44 to 150 micrometers and ultrafine flake 5 to 44 micrometers. (Flint, 2007). Flake graphite deposits form from the regional metamorphism of carbon-containing sedimentary rocks and can give rise to large deposits in metamorphic belts such as those in Mozambique, Madagascar and Quebec.

Amorphous type graphite, also known as crypto-crystalline, or micro-crystalline contain disordered graphite crystals formed by thermal metamorphism of coal or carbon-rich rocks.

Graphite at the Buckingham project occurs as both vein and disseminated styles of mineralization. Disseminated flake type graphite is more widespread and occurs throughout the paragneiss and marble sequence comprising the Case Zone. Significant mineralized intercepts, however, are consistently associated with the presence of marble units. In the adjacent units (usually garnet gneiss or mafic calc-silicate rocks), an abrupt increase in the graphite content is noted with the presence of a nearby marble unit. Mafic, calc-silicate rocks are mostly high-grade intervals (15-25% Cg). This unit is generally a few meters wide and is commonly found at the contact between the marble and the adjacent paragneiss. This type of graphite deposit shares some similarities with the Hartwell deposit, some 40 km to the east (Simandl 2015). At this location, marble is separated from a biotite gneiss by calcsilicate rocks (clinopyroxenites) and graphite bearing scapolite paragneiss with graphite grade of 3-15% (Simandl 2015).

The vein type graphite occurs as cm scale veins of coarse-grained graphite typically hosted in marble and/or paragneiss of the Uncle Zone.

The disseminated graphite at Buckingham is believed to result from the metamorphism of carbon rich sedimentary rocks during the Grenville orogeny. Later remobilization of this graphite with subsequent deposition could have led to the vein type occurrences.

8. Exploration

8.1 Caribou King Resources Programs 2013-2015

Initial work on the property was carried out by Caribou King Resources in October 2013 and consisted of a Beep Mat survey and prospecting in the southeast corner of the property (Robillard, 2013). Several old exploration pits for graphite were known in the area and four were located and sampled during the fieldwork.

Two pits were found on top of a hill, at the southeast limit of Buckingham Property. These pits are at the contact between pegmatite and paragneiss. One of the pits, the largest of the pits found, has an elongated shape and measures approximately 15 metres long and is 2.5 metres deep. Graphite is seen on the walls of both pits. Rock piles of pegmatitic blocks form small mounds of about 1 m high around the pits and graphite veins can be observed on most of these blocks (Robillard, 2013).

Another two pits were found 200 metres to the west, on the west side of the road. Both pits show graphite exposed on the walls or floor and graphite veinlets occur on pegmatite blocks in dumps around the pits (Robillard, 2013).

Results of the beep mat survey delineated an area of 150-200 metres that is conductive (Figure 6). Manual excavation of several anomalies concentrated in this area typically displayed massive graphite exposed in pegmatitic rock at the bottom of the pits (Figure 7). Grab samples of the mineralization in the area returned graphite values ranging from 18.3 to 81.1 % Cg (carbon as graphite). Results of the sampling are shown in Table 2. The presence of marble associated with the graphite occurrences is believed to enhance the prospectivity of this area (Robillard, 2013).

Table 2. Results of assays for grab samples taken during follow up of Beep Mat anomalies

Sample ID	UTM Coordinates NAD 83 zone 18		Cg %
	Easting	Northing	
W1138477	460772	5052954	81.1
W1138479	461003	5052869	79.2
W1138480	460964	5052996	35.1
W1138483	460843	5053012	19.1
W1138478	460735	5053026	18.3
W1138481	460964	5052996	18.1
W1138482	460986	5052906	17.0

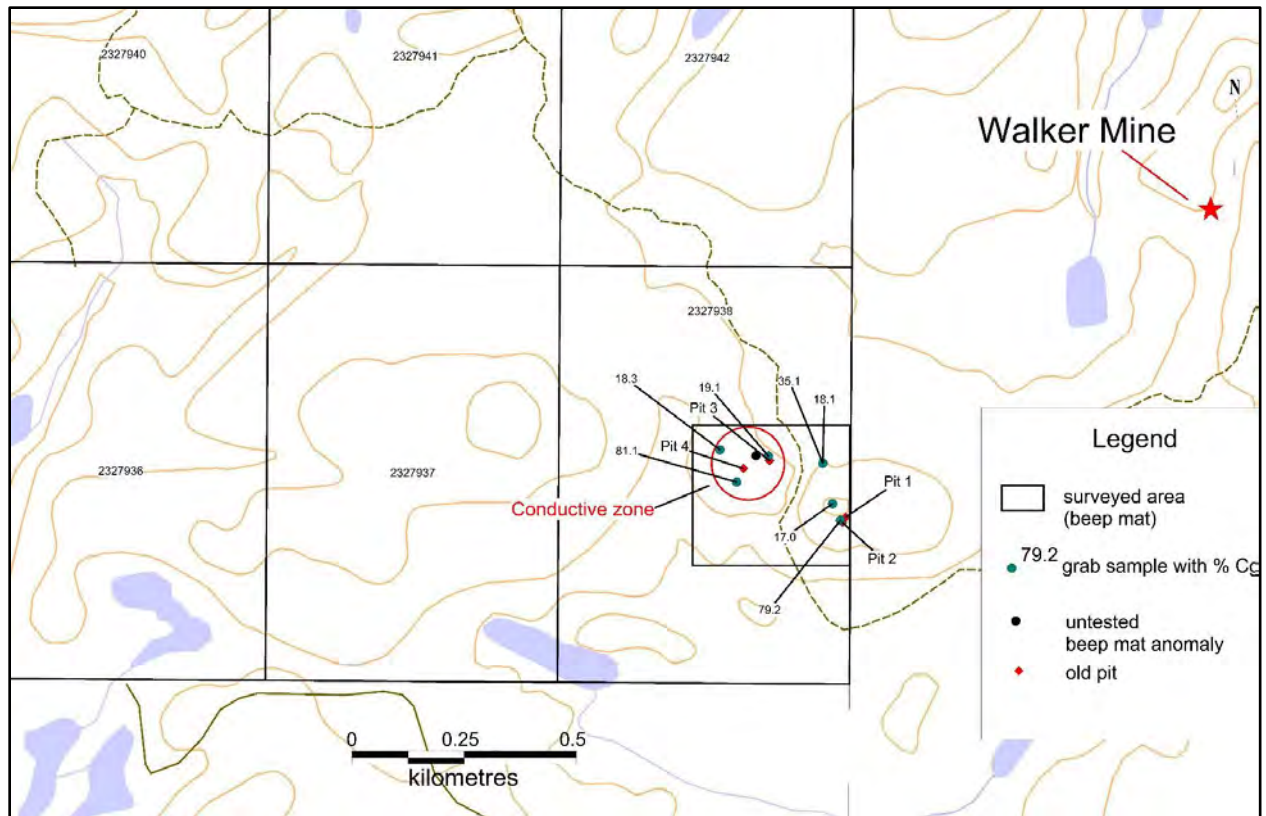


Figure 6. Map showing location of beep mat anomalies and old prospecting pits (after Robillard, 2013).



Figure 7. Photo showing graphite mineralization in a 0.5 metre pit on a strong beep mat anomaly (from Robillard, 2013).

Follow up work by Caribou King Resources in 2015 consisted of further Beep Mat surveying an electromagnetic survey (Max-Min II HLEM), geological mapping and sampling. During the field work, a second zone of graphite mineralization was found to the west of the area examined in 2013. The new zone was named the Case Zone and the area to the southeast the Uncle Zone.

The geology of the Case Zone is primarily quartzo-feldspathic paragneiss intercalated with quartzite. In areas with strong graphite mineralization, the paragneiss has a very rusty appearance, due to the presence of sulfides (pyrrhotite), while the quartzite often becomes blueish in color

Graphite flakes, which may be up to several mm long, are preferentially aligned with the foliation in the gneiss (Lewis, 2015).

Sampling of the Case Zone showed graphite concentrations of 1.6 %Cg to 28.7 %Cg and averaged 19.1 %Cg in grab samples in which graphite occurs as disseminated flakes. Results are included in Table 3 and shown in Figure 8.

Table 3. Assay results from grab samples taken over the Case Zone (after Lewis, 2015)

Sample ID	Northing	Easting	Cg %
210151	5053871	459431	27.3
210152	5053903	459422	11.9
210153	5053873	459432	22.9
210154*	5053732	459320	18.0
210155	5053885	459440	12.5
210156	5053847	459405	24.3
210157	5053821	459399	27.1
210158	5054137	459592	18.2
210159	5054040	459348	6.1
210160	5053843	459402	14.4
210161	5053816	459400	28.7
210162	5053562	459344	23.8
210163	5053711	459317	23.2
210164	5053694	459381	19.5
210165	5053432	459269	21.5
210166	5053506	459260	20.4
210167	5053742	459785	22.5
210168	5053301	460761	1.6

**all samples from outcrop except 210154 (taken from boulder)*

QFP = mineralized quartzofeldspathic paragneiss; SHEAR = nodular shear-hosted graphite

The ground HLEM survey consisted of nine line kilometres carried out over the Case Zone at a line spacing of 100 metres and stations every 25 metres (Lewis, 2015). Several electromagnetic conductors were outlined over the zone and their orientation is sub-parallel to the foliation of the paragneiss (Figure 9).

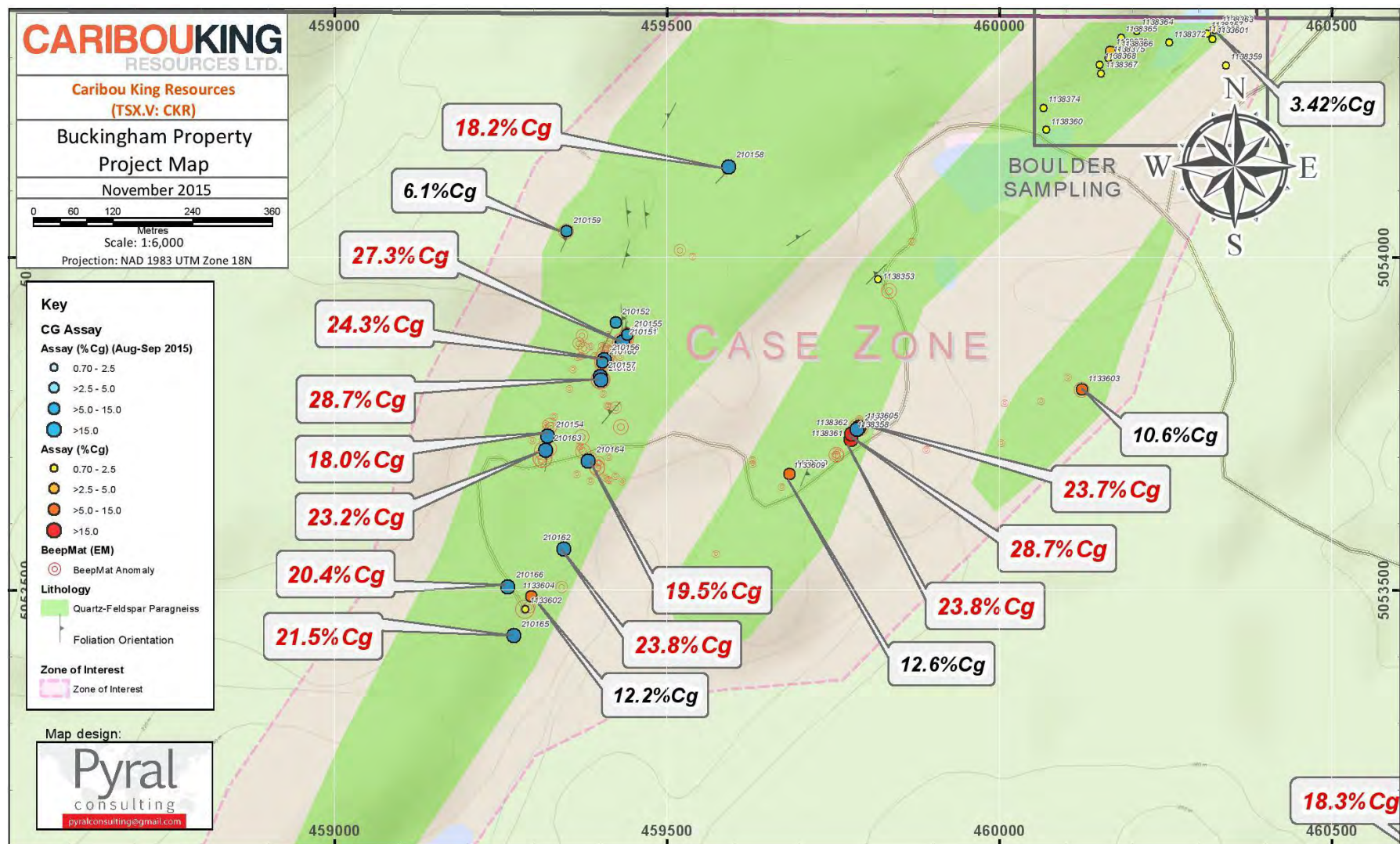


Figure 8. Map showing location of significant assay results for grab samples from the Case Zone (after Lewis, 2015).

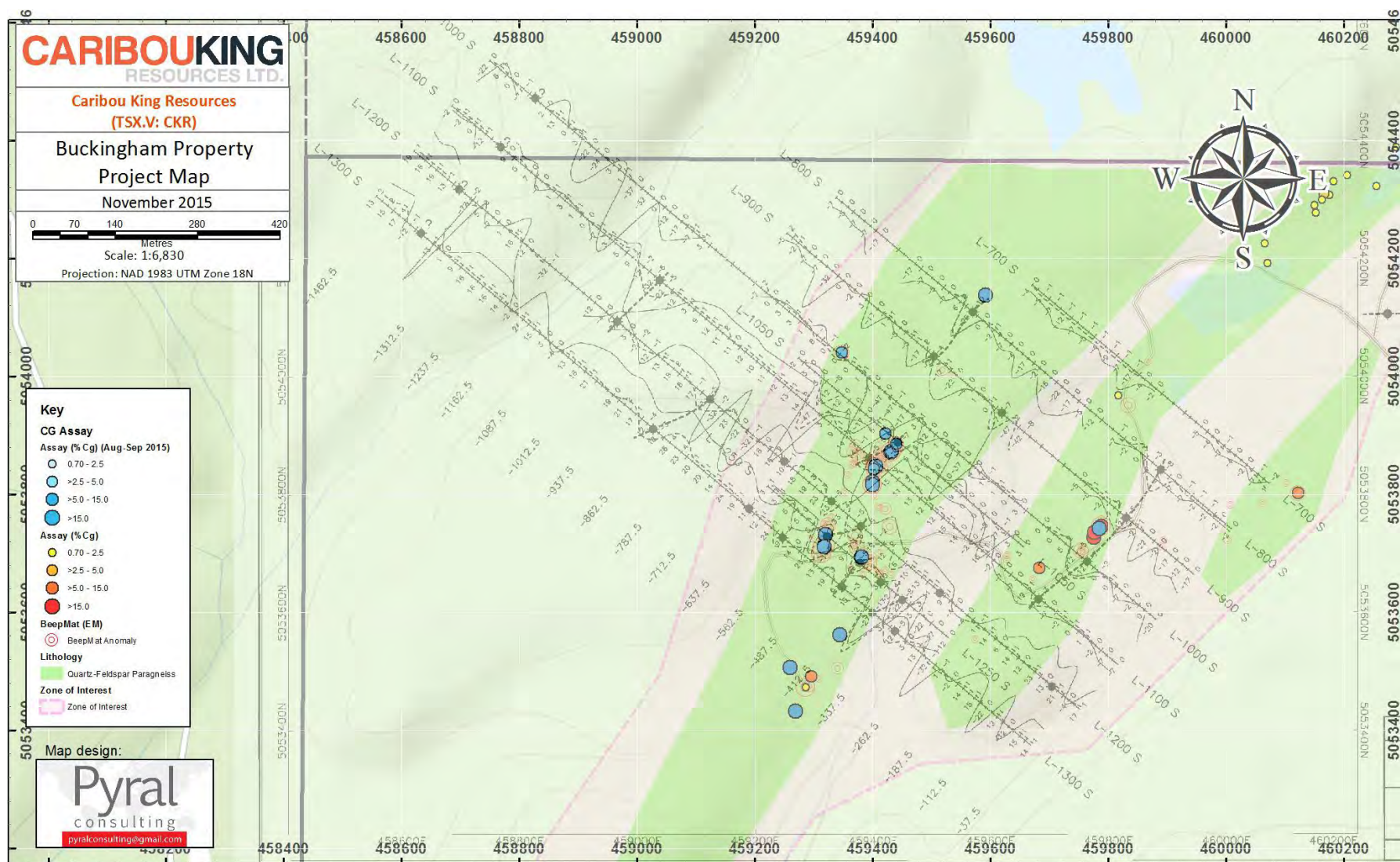


Figure 9. EM conductors on EM1777 profile overlaying geology, geochemistry and Beep Mat anomalies (after Lewis, 2015).

8.2 CKR Carbon Exploration 2016-2017

8.2.1 Airborne magnetics and TDEM survey

Prospectair conducted a high resolution heliborne magnetic and time domain electromagnetic survey on behalf of CKR Carbon Corp during November 2016 (Dube, 2016). A total of 89 line kilometres were flown over the Buckingham property at 100 metre line spacing with lines oriented at 305 degrees (Figure 10). The aim of the survey was to extend the known EM conductors outlined by the 2015 ground survey to delineate potential drill targets.

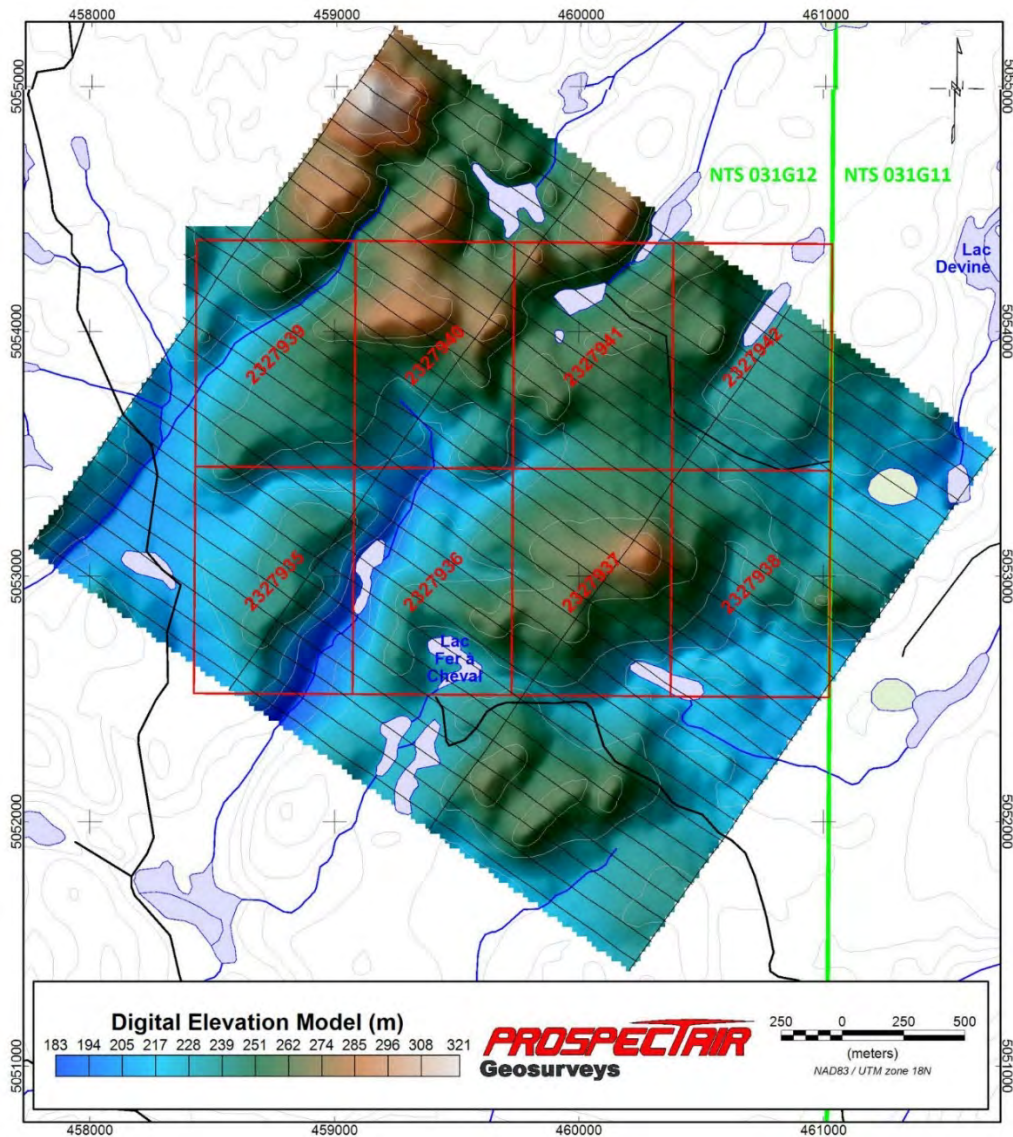


Figure 10. Map of survey lines for magnetic and TDEM survey over Buckingham Project (After Dube, 2016).

Results of the airborne magnetic and TDEM surveys were successful in defining magnetic and EM anomalies for further follow up. The strongest magnetic anomalies occur in the northern portion of the claim block and are thought to be due to mafic intrusive rocks (Figure 11). Magnetic lineaments appear to be disrupted by faulting or strong deformation (Dube, 2016).

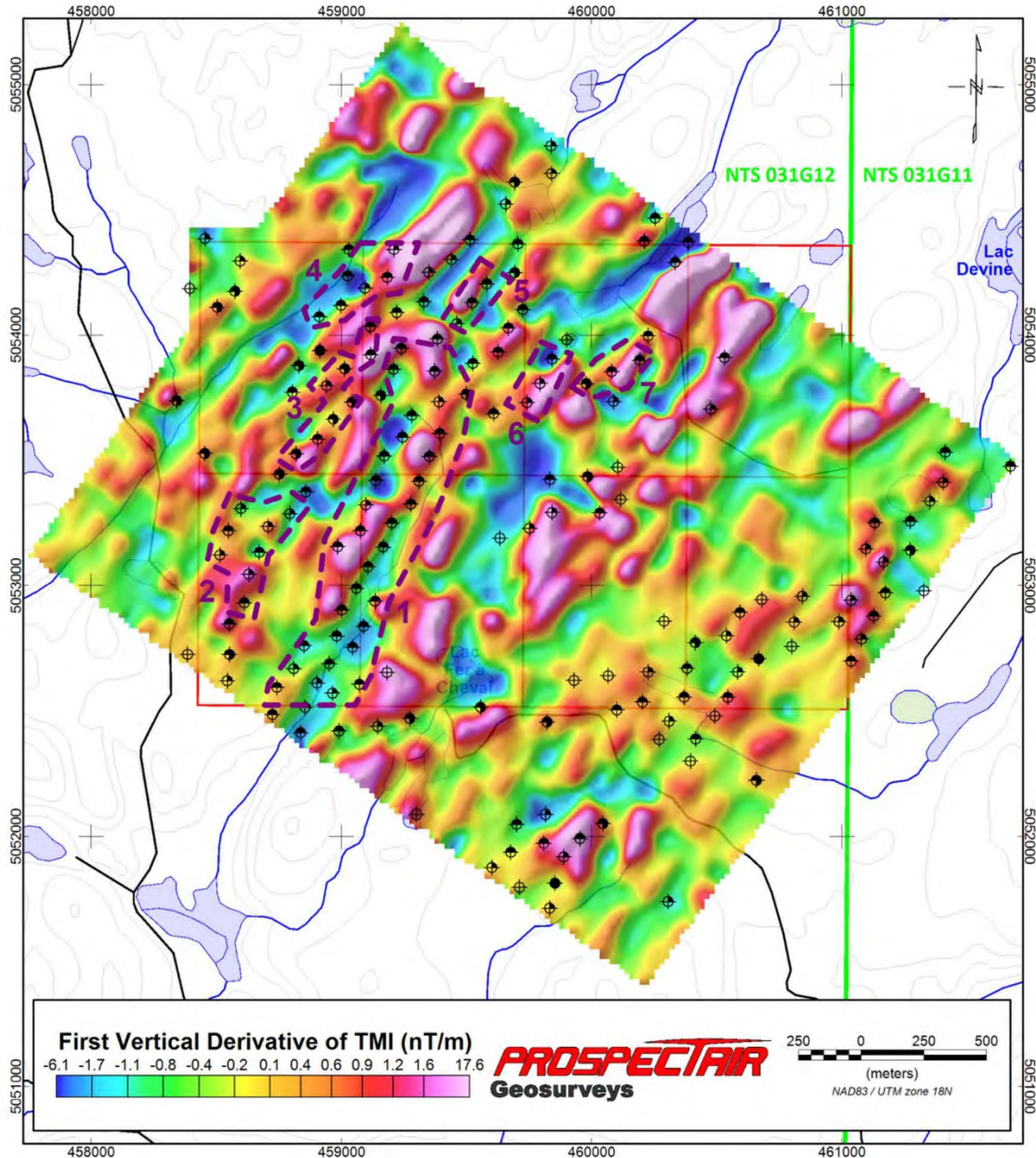


Figure 11. First vertical derivative of total magnetic intensity with TDEM anomalies (after Dube, 2016).

Electromagnetic anomalies are calculated based on the size of the time constant (TAU), which is a measure of the speed of decay of the electromagnetic response. For example, a strong conductor such as graphite or sulphide will have a slow decay corresponding to a large value of TAU (Dube, 2016).

A total of 177 EM anomalies were identified over the Buckingham property and classified as follows:

Marginal anomalies: TAU <0.25 msec n=18
Weak anomalies: TAU 0.25 to 0.5 msec n=48
Intermediate anomalies TAU 0.5 to 0.75 msec n=84
Strong anomalies TAU 0.75 to 1 msec n=24
Very strong anomalies TAU > 1 msec n=3

Many of the EM anomalies can be followed across several lines and highlight conductive lineaments that are generally narrow, of reasonable amplitude and moderate TAU values and represent good conductors such as those typical of graphite and sulphide. Seven distinct areas have been outlined by the conductors (Figure 12) with area 1 with the best potential for sizeable graphite mineralization given the strong intensity of the conductors and the strike extent of 1.5km (Dube, 2016).

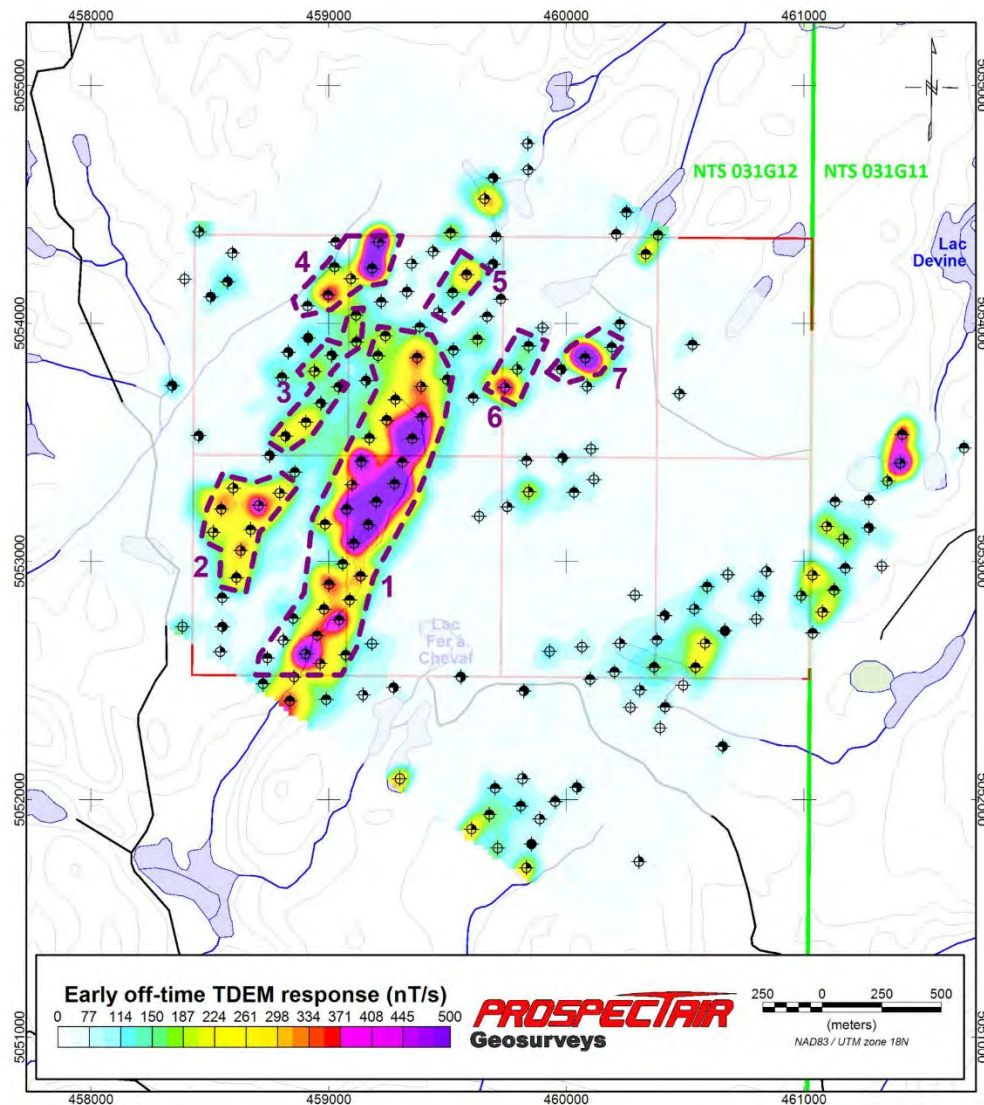


Figure 12. Location map showing seven anomalous areas outlined by TDEM anomalies. (After Dube, 2016).

8.2.2 Trenching Program

Following the success of the geophysical surveys a trenching program was undertaken to test the conductors for graphite mineralization.

The trenching tested the long northeast southwest trending TDEM conductor with five trenches from 15 to 70 metres long oriented perpendicular to the conductor axis (Figure 13). A sixth trench, of approximately 30 metres (Trench 10), tested a smaller adjacent conductor. All of the trenches uncovered zones of graphite mineralization hosted primarily by paragneiss.

Highlights of the channel sampling of the trenches included 8.33% Cg (Carbon as graphite) over 11.3 metres, 2.76% Cg over 15 metres, 2.23% Cg over 27 metres and 1.52% Cg over 65.5 metres (Table 4). Individual samples assayed between 0.02% Cg and 17.3% Cg, with an average of 1.92% Cg for the 158 samples.

Table 4. Highlights of assays of trench channel samples.

Trench ID	Width (m)*	Cg (%)
10	18.8	5.22
<i>including</i>	11.3	8.33
3	27	2.23
<i>including</i>	4.9	5.84
6	12.5	1.60
<i>including</i>	9.0	2.03
2	65.5	1.52
<i>including</i>	15.1	2.76
5	No Significant Results	

*Not true width. Insufficient information available to determine true width

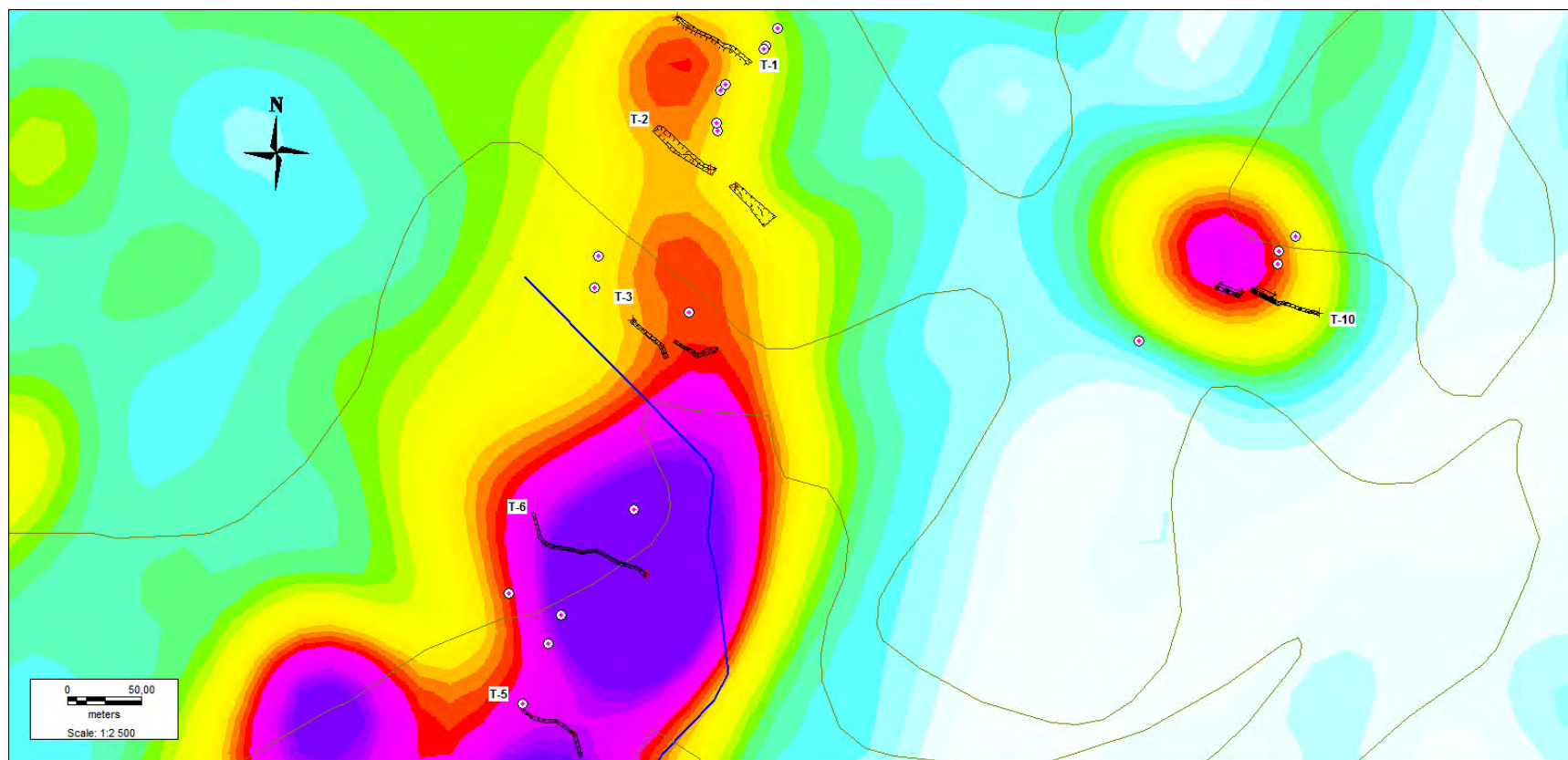


Figure 13. Location of 2016 trenches shown over main TDEM anomalies.

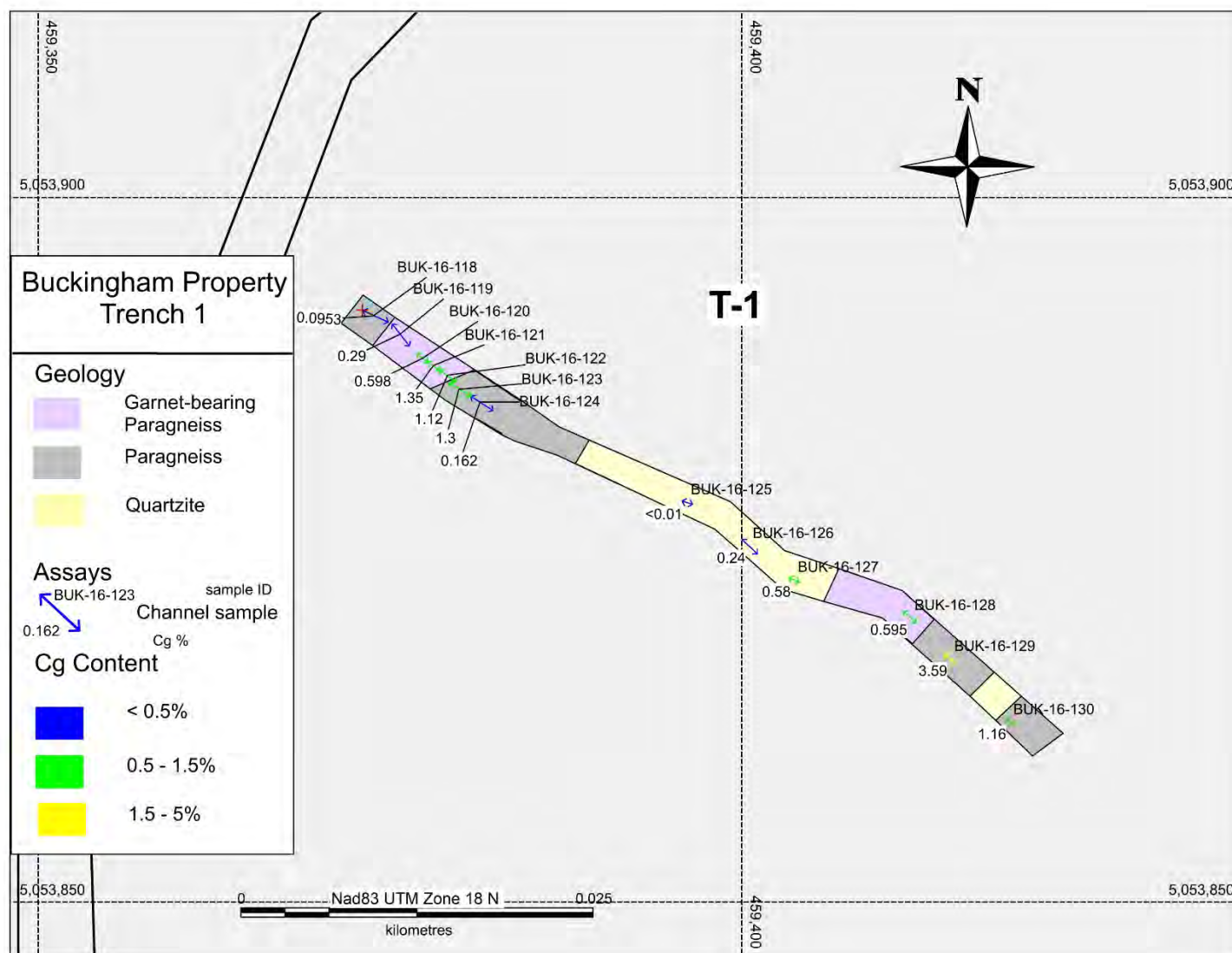


Figure 14. Plan of Trench 1 showing geology, channel sample location and graphite concentration.

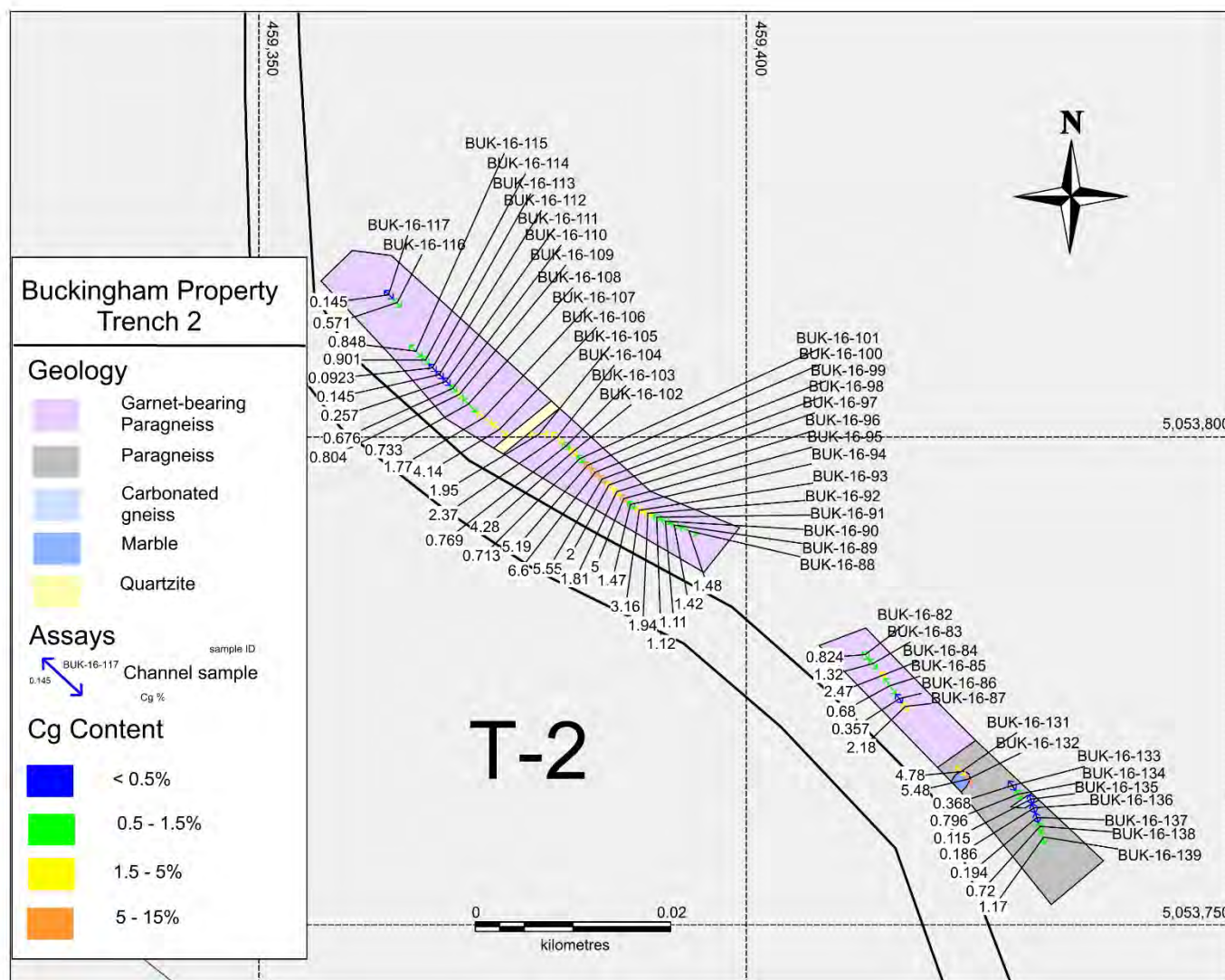


Figure 15. Plan of Trench 2 showing geology, channel sample location and graphite concentration.

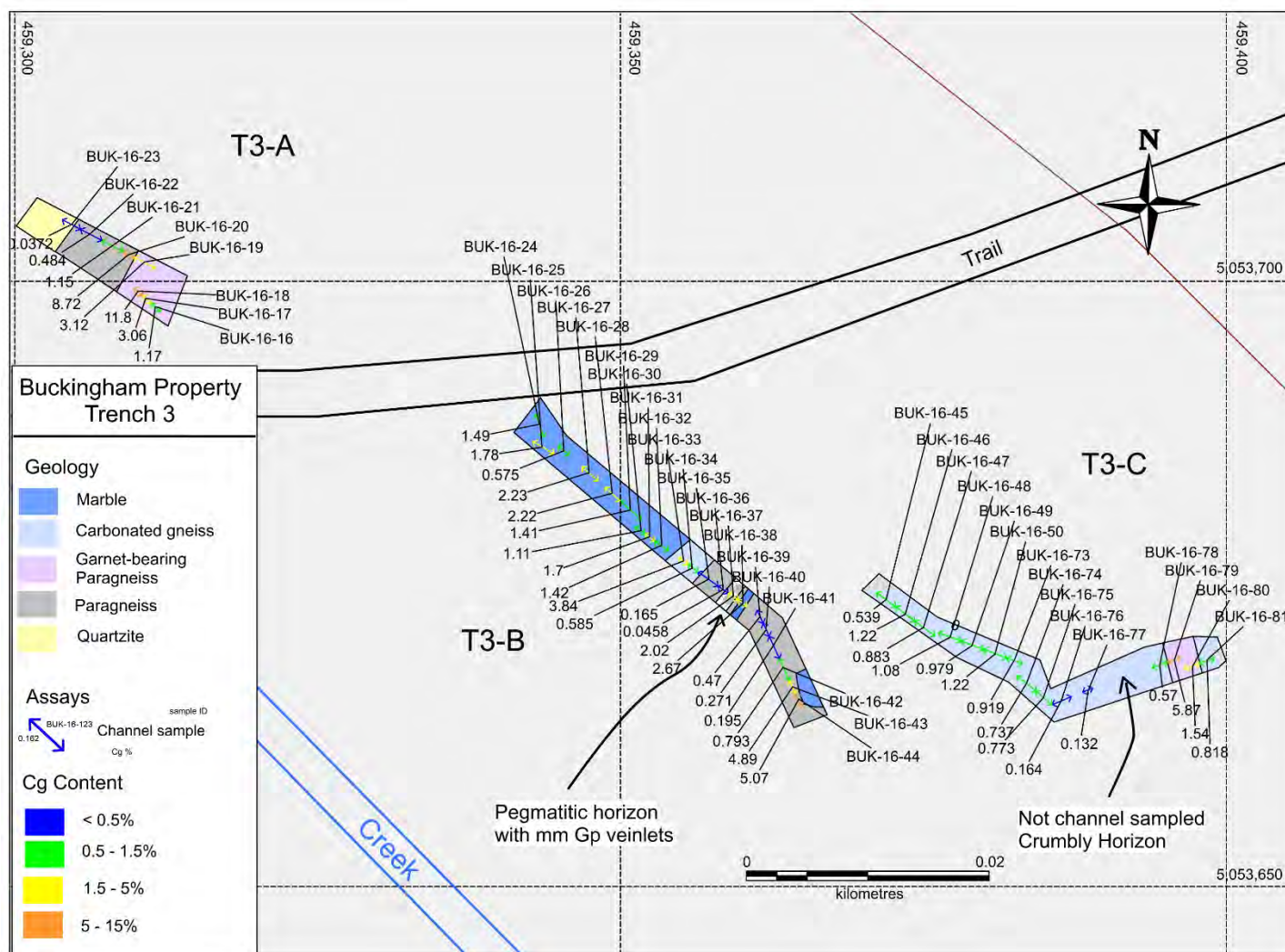


Figure 16. Plan of Trench 3 showing geology, channel sample location and graphite concentration.

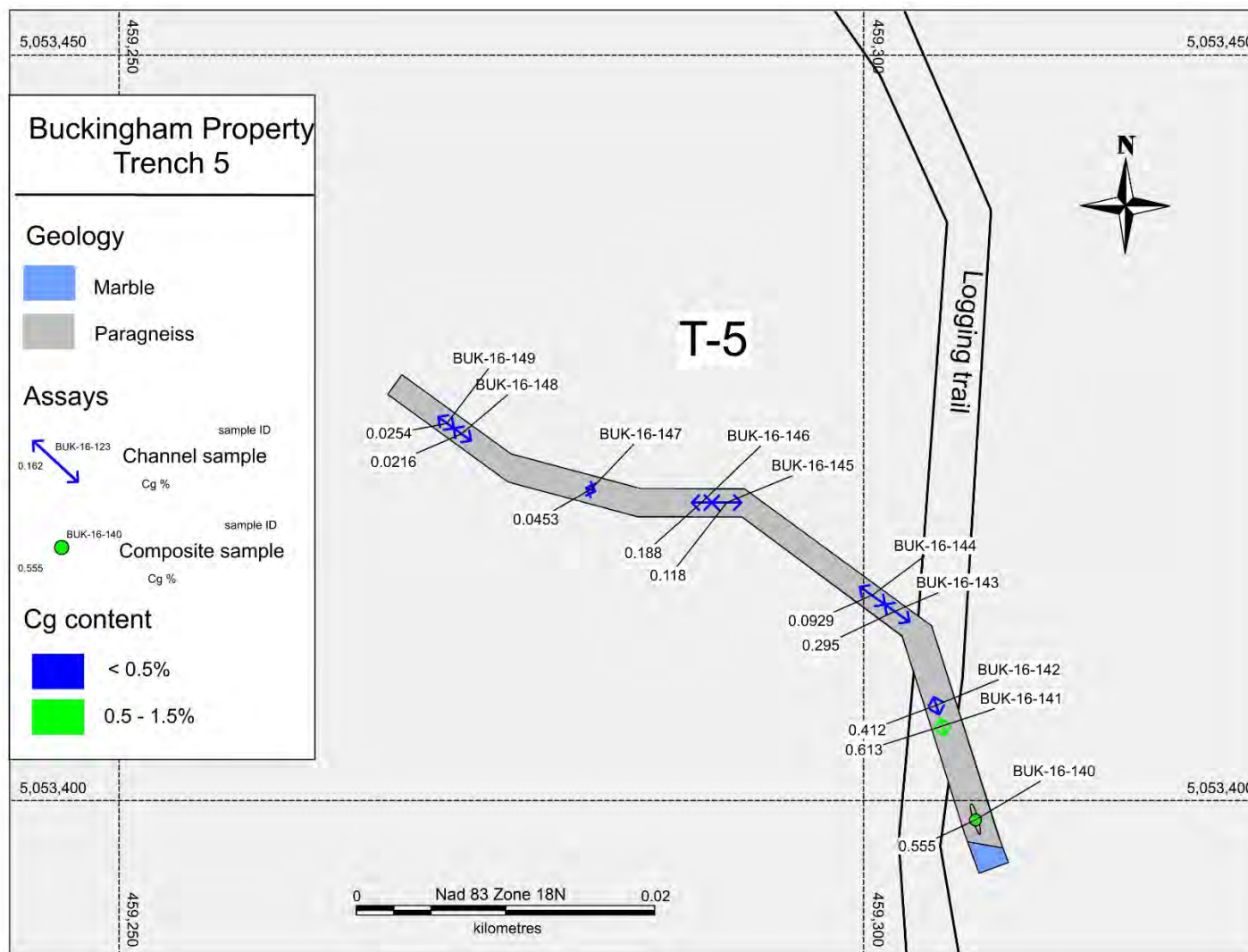


Figure 17. Plan of Trench 5 showing geology, channel sample location and graphite concentration.

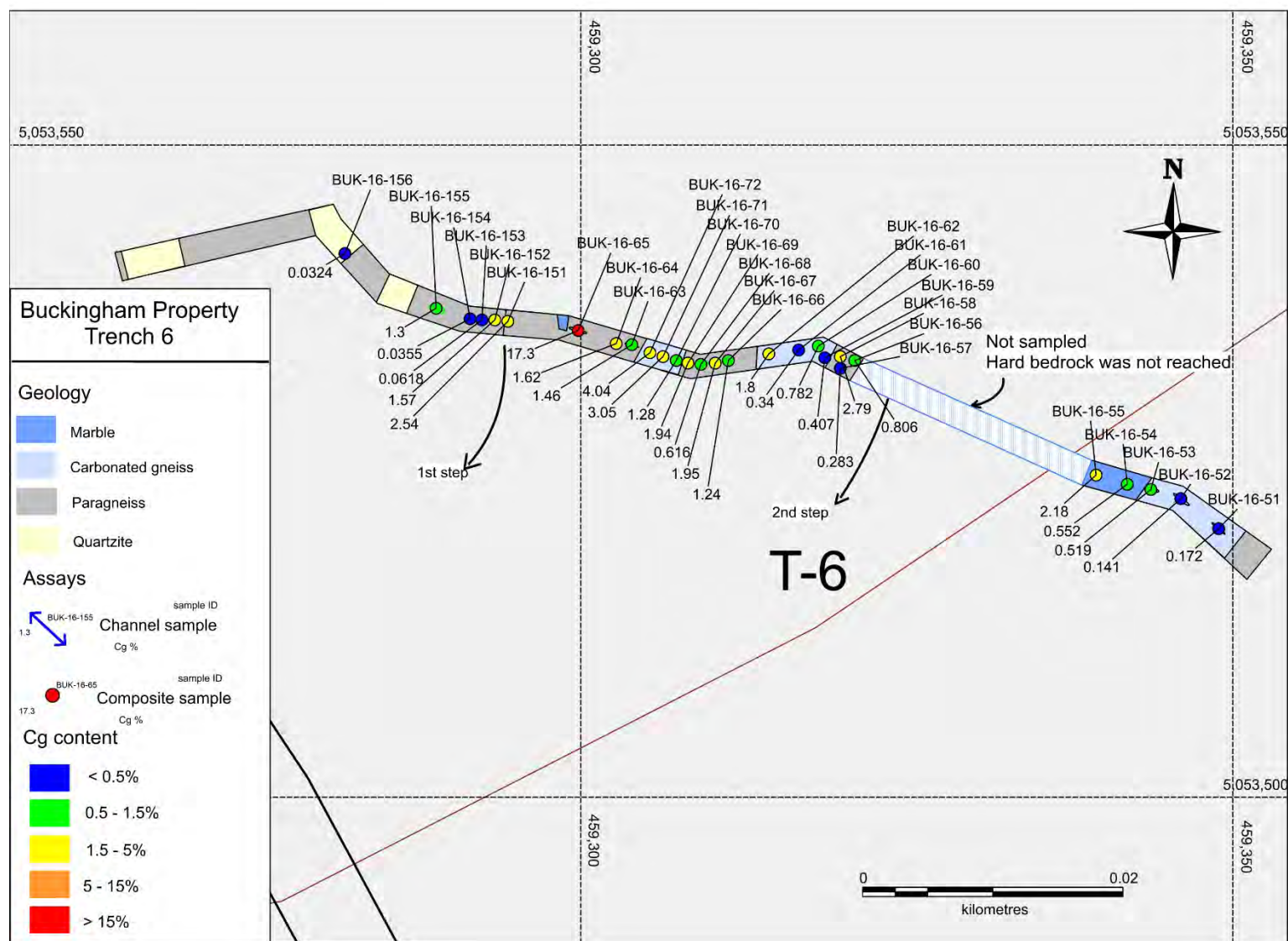


Figure 18. Plan of Trench 6 showing geology, channel sample location and graphite concentration.

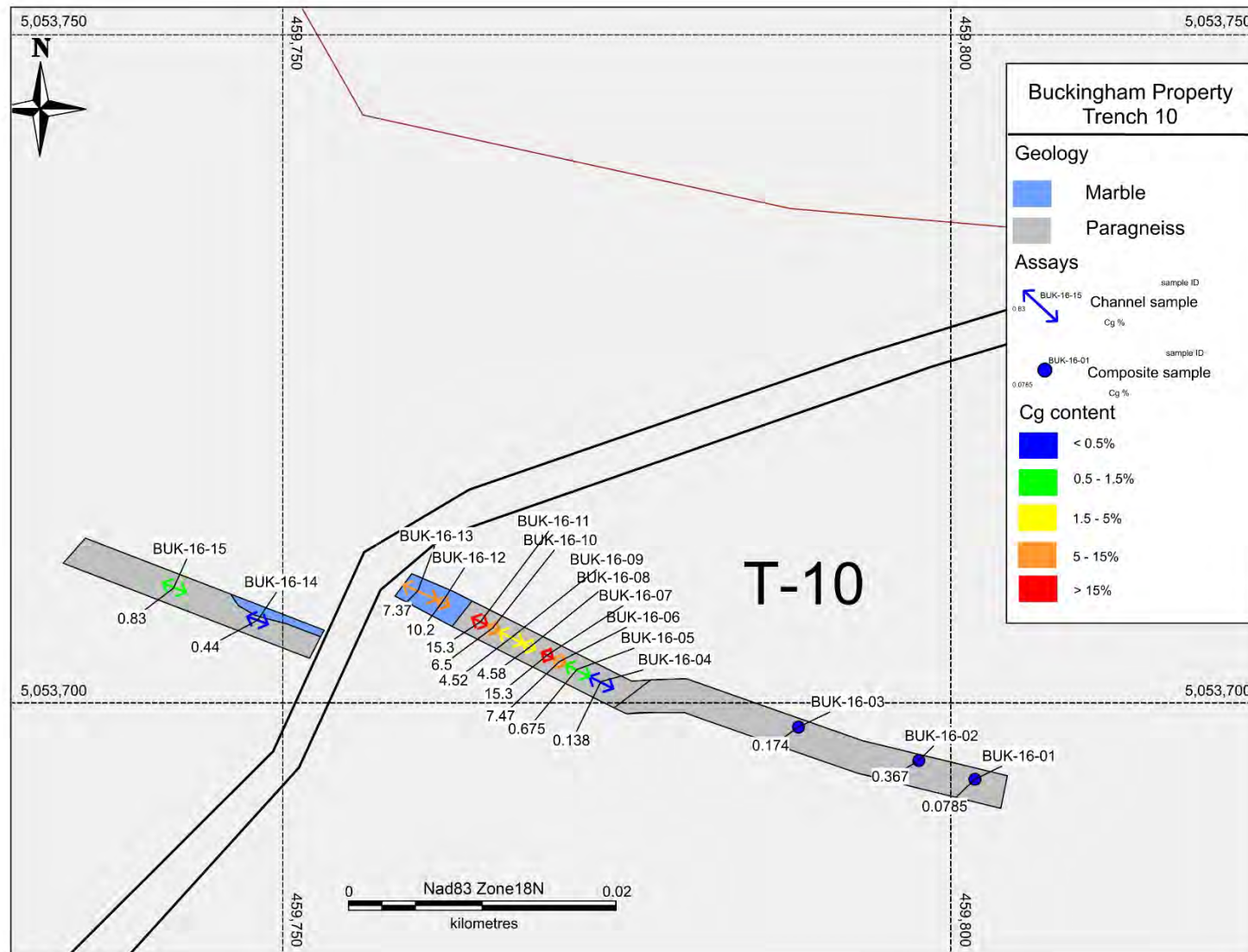


Figure 19. Plan of Trench 10 showing geology, channel sample location and graphite concentration.

During 2017, another four trenches were excavated along the EM conductor to increase the strike length of known graphite mineralization. The four trenches, measuring from 30 to 40 metres in length were excavated across the EM conductor and all of them revealed graphite mineralization (Figure 20) . Marble is the main host to the graphite and significant intersections of 13 to 14 metres were observed in trenches two and three. Highlights of the assays include 9.07% Cg over 15.4 metres including a higher grade interval of 19.32% Cg over 4 metres in trench TR17-02 and 7.51% Cg over 16.85 metres including 13.35% Cg over 4.15 metres in trench TR17-03 (Table 5). Maps of the trenches are shown in figures 21 to 24.

Table 5. Highlights of assays of channel samples from 2017 trenches.

Trench ID	Width (m)	Cg (%)
TR17-01	3	14.23
TR17-02	15.4	9.07
<i>including</i>	9	14.06
<i>including</i>	4	19.32
TR17-03	10.9	4.45
<i>and</i>	8.95	9.15
<i>including</i>	4.15	13.35
TR17-04	3	3.75

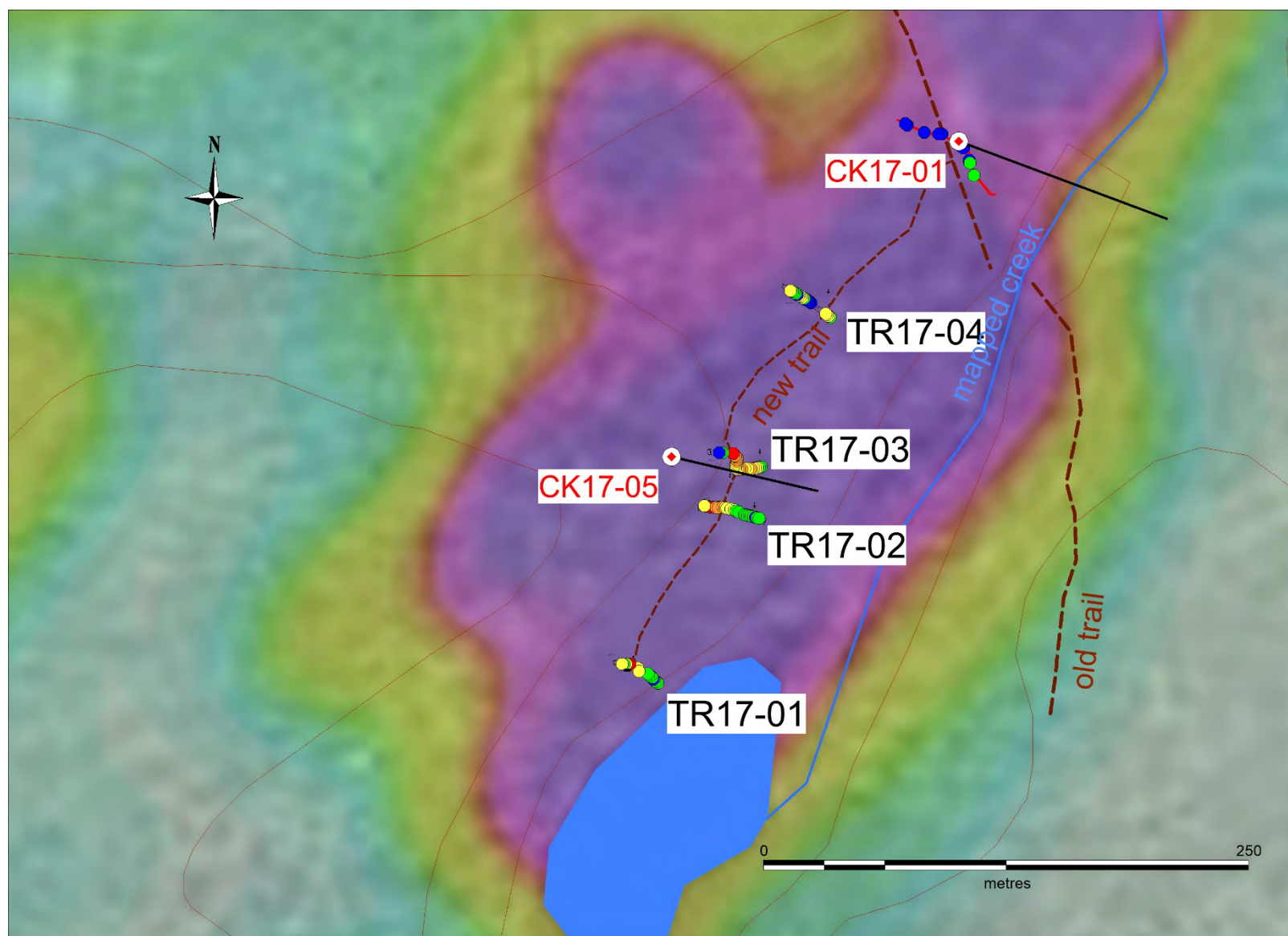


Figure 20. Location of 2017 trenches T17-01 to TR17-04 overlain on EM anomaly.

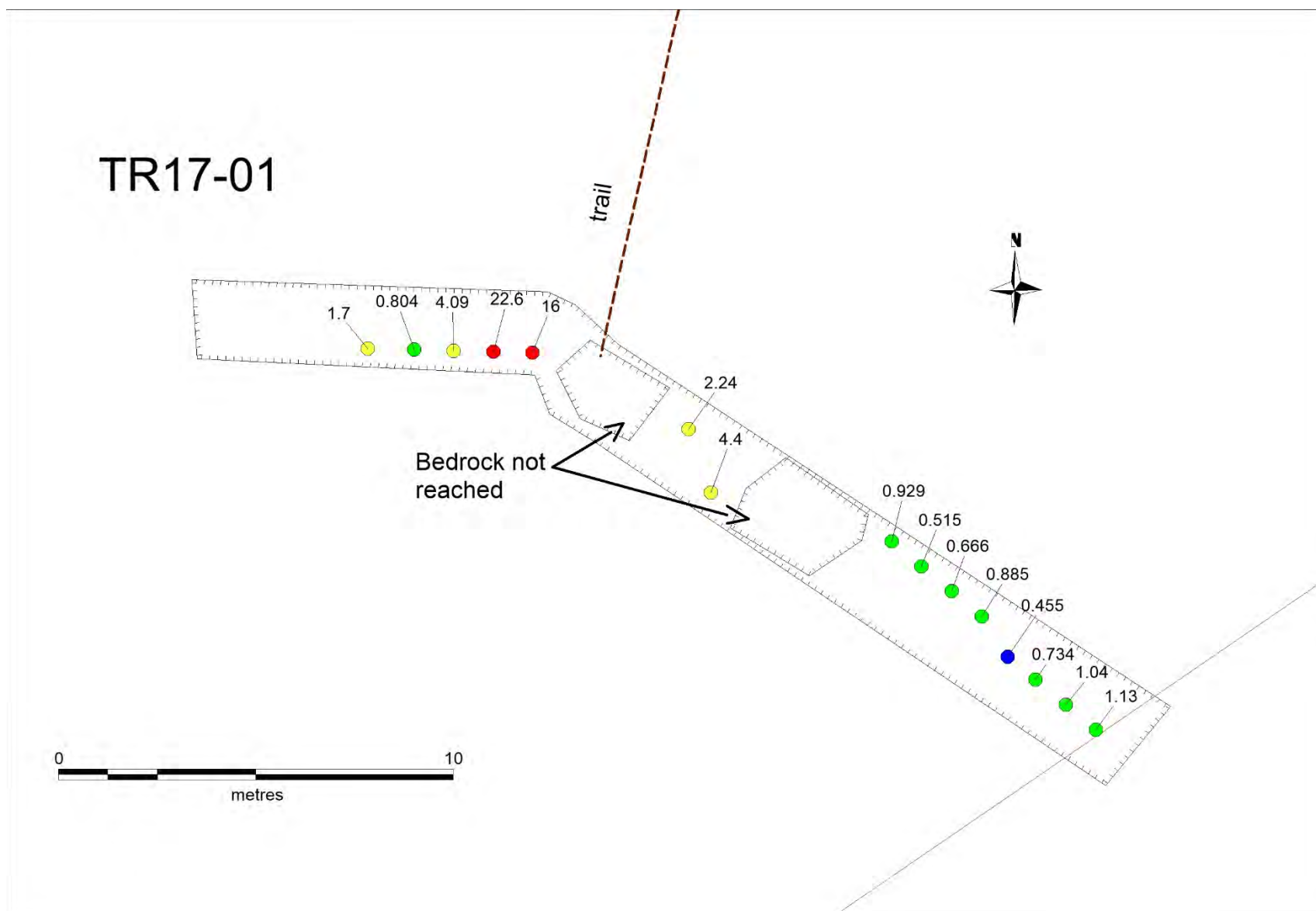


Figure 21. Sketch map of Trench TR17-01 showing channel samples with carbon as graphite (Cg) values.

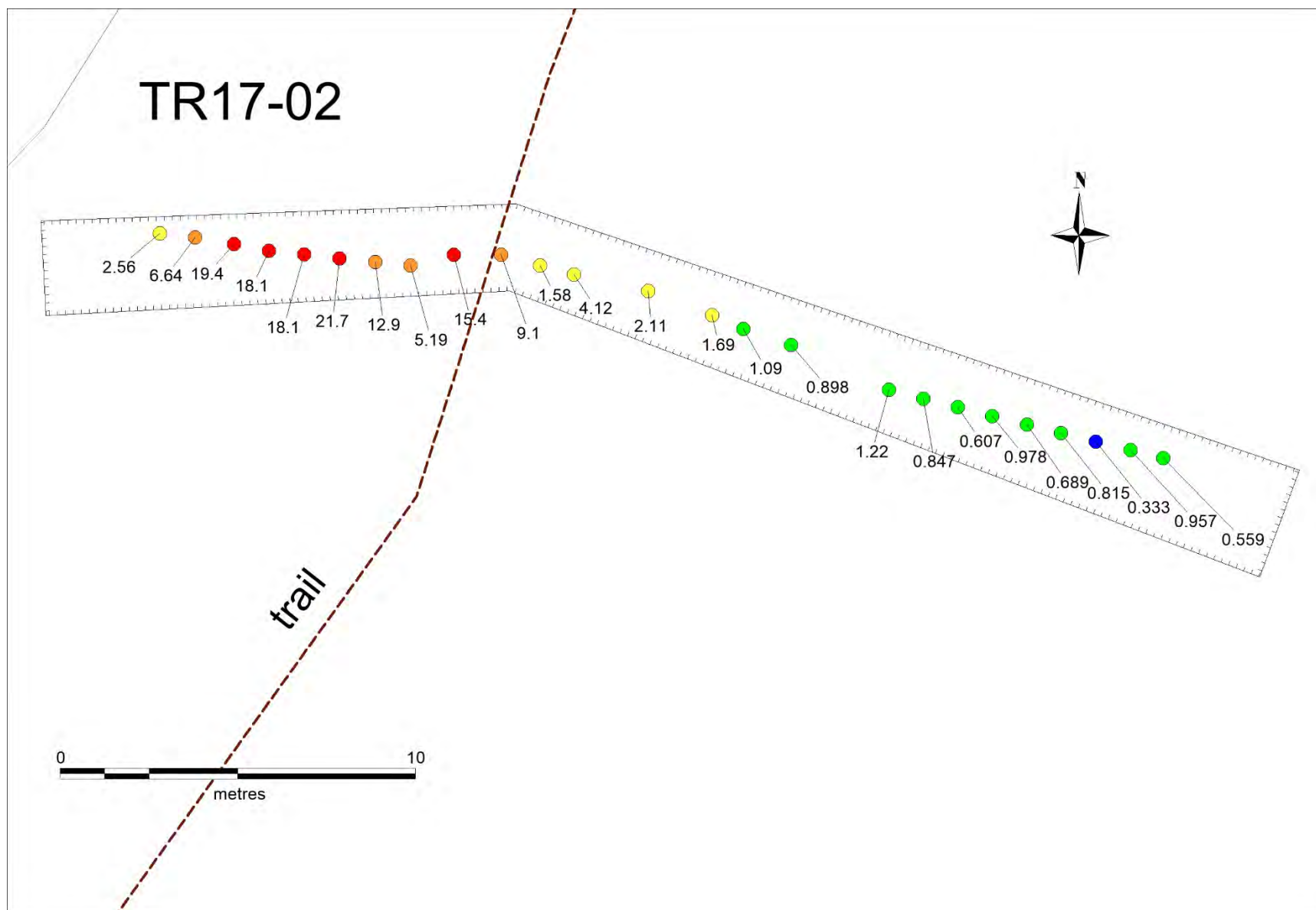


Figure 22. Sketch map of Trench TR17-02 showing channel samples with carbon as graphite (Cg) values.

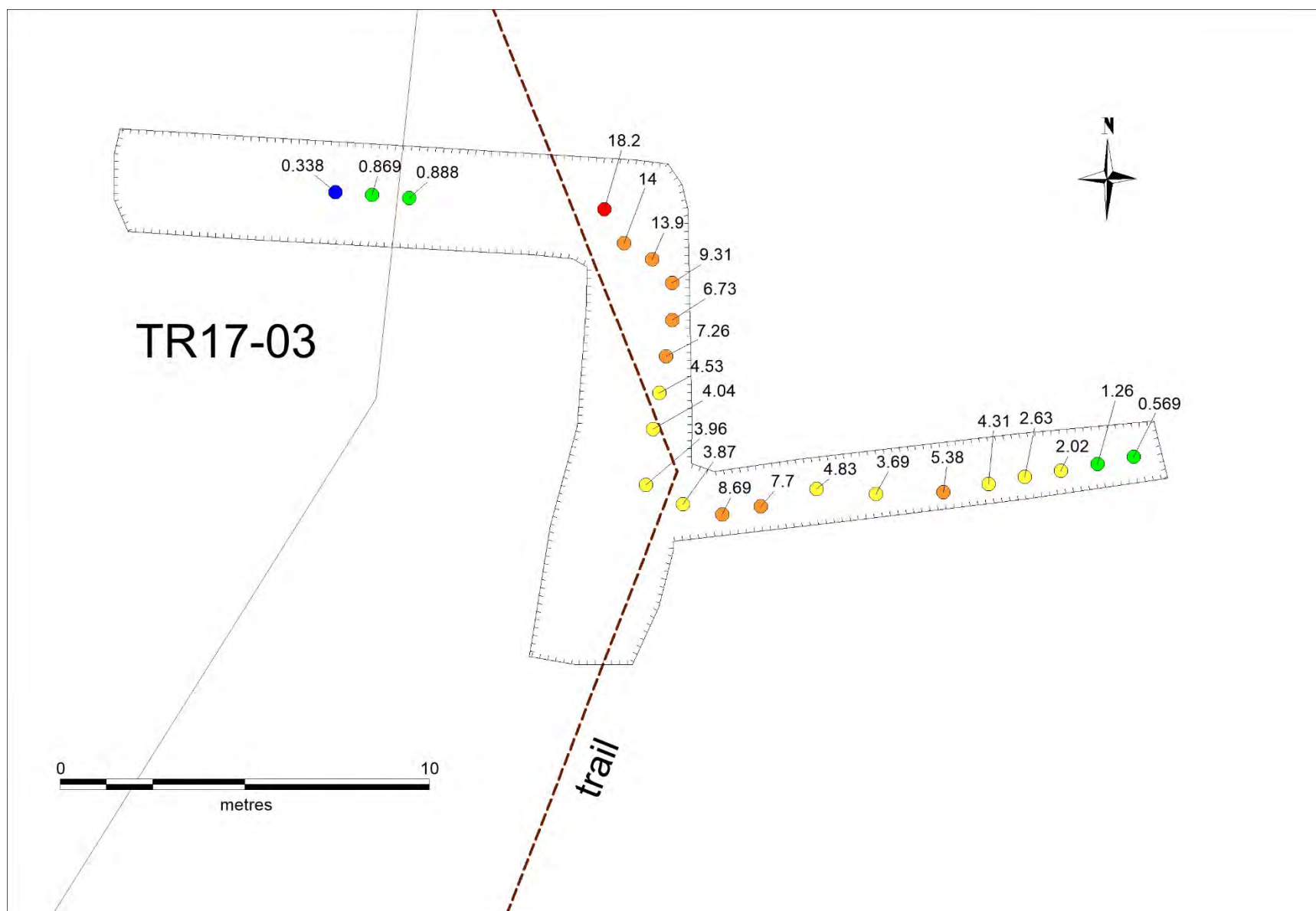


Figure 23. Sketch map of Trench TR17-03 showing channel samples with carbon as graphite (Cg) values.

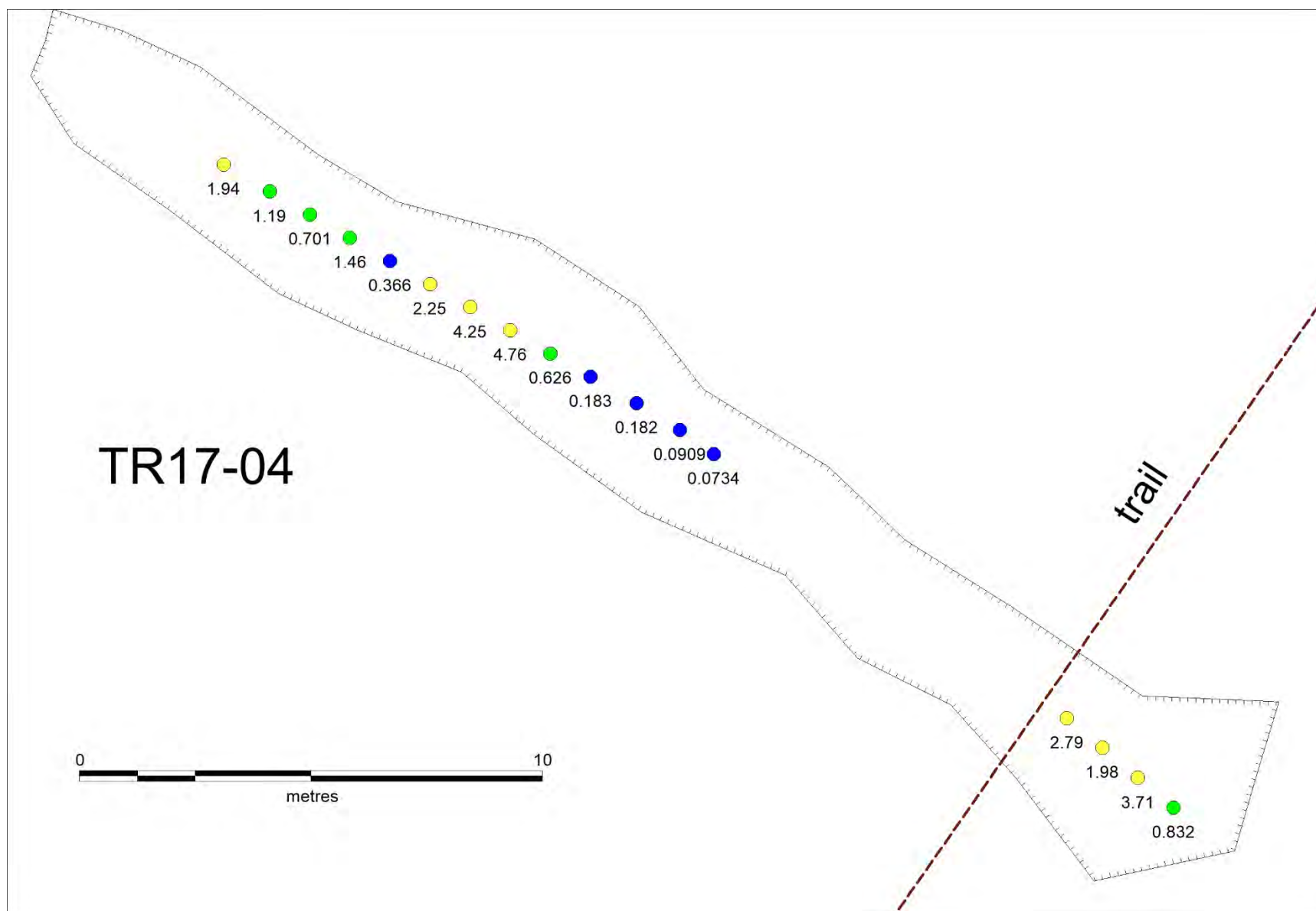


Figure 24. Sketch map of Trench TR17-04 showing channel samples with carbon as graphite (Cg) values.

9. Drilling

CKR Carbon carried out an initial diamond drilling program during 2017 to test for graphite mineralization below surface mineralization found in trenches across the EM conductor(s). The 2017 program consisted of five holes (CK17-01 to 05) totalling 937 metres (Figure 25). A further six holes were drilled during 2018 for a total of 1,930.95 metres. (Table 6). A summary of significant results is given in Table 7 below.

Table 6. Drill collar information for 2017 & 2018 drill programs.

Hole ID	Easting	Northing	Azimuth	Dip	Elevation (m)	Total Depth (m)
CK17-01	459300	5053416	110	-45	154.3	160.90
CK17-02	459361	5053521	300	-45	229.2	143.00
CK17-03	459306	5053667	104	-45	244.5	218.05
CK17-04	459426	5053788	322	-45	251.6	221.00
CK17-05	459151	5053253	104	-67	160.2	194.00
CK18-06	459200	5053298	320	-45	135.2	182.00
CK18-07	459237	5053544	125	-45	161.1	177.00
CK18-08	459233	5053353	120	-45	136.8	149.00
CK18-09	459449	5053601	300	-45	152.6	201.00
CK18-10	459343	5053852	115	-45	221.5	144.00
CK18-11	459765	5053685	320	-45	134.4	141.00
Total						1,930.95

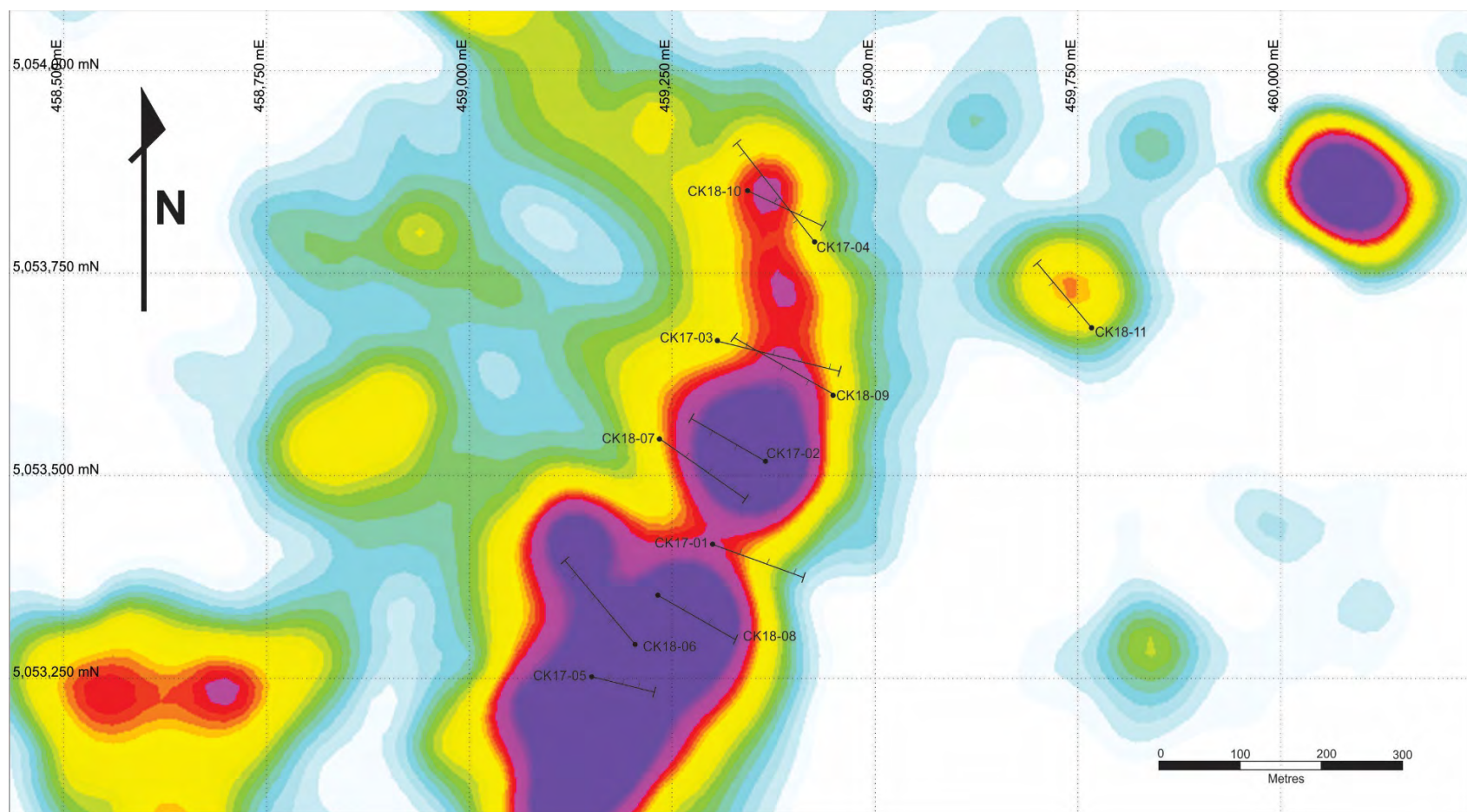


Figure 25. Location of 2017 and 2018 drill holes overlain on EM map.

Table 7. Significant assay results from 2017 and 2018 diamond drilling programs at Buckingham.

Hole ID	From (m)	To (m)	Width (m)	Cg (%)
CK17-01	53.0	106.0	53.0	3.52
including	94.0	106.0	12.0	7.35
CK17-02	9.0	97.0	88.0	6.06
including	75.0	95.0	20.0	7.52
and	11.0	31.0	20.0	12.09
including	22.0	30.0	8.0	20.69
CK17-03	35.0	59.0	24.0	2.64
CK17-04	5.0	23.0	18.0	10.5
and	58.0	76.0	18.0	6.25
CK17-05	49.0	89.0	40.0	5.68
including	55.0	70.0	15.0	7.36
CK18-06	23	40	17	1.38
CK18-07	30	92	62	6.88
including	57	86	29	12.75
including	57	75	18	16.64
	112	123	11	3.85
	133	146	13	7.5
CK18-08	46	63	17	5.86
including	46	52	6	12.18
	95	108	13	8.37
including	100	107	7	13.83
CK18-09	6	72	66	4.94
including	15	70	55	5.7
including	18	22	4	14.52
and	29	32	3	13.52
	87	118	31	2.04
	153	157	4	5.69
CK18-10	64	67	3	8.47
	82	86	4	3.89
CK18-11	67	82	15	4.01
including	69	71	2	12.5

Widths are not necessarily true widths as there is currently insufficient information to calculate true widths.

Hole CK-17-01 was drilled below an isolated EM conductor and intersected graphite mineralization that included 7.35% Cg over 12 metres primarily hosted in marble with minor quartzo-feldspathic paragneiss (Figure 26).

Hole CK 17-02 was drilled into the main northeast-southwest trending EM conductor the northeast portion of which coincides with the graphite mineralization seen in the Case Zone. The hole intersected 6.06% Cg over 88 metres from nine metres that included a higher-grade interval of 20.69% Cg over 8 metres (Figure 27). The graphitic zone encompasses two marble units interlayered with phlogopite/garnet-bearing gneisses and quartzite. Both marble and gneisses are intermixed with fine grained, dark green calc-silicate horizons that are highly mineralized in graphite.

Hole CK-17-03 was drilled approximately 100m to the south east of CK17-02 where the EM anomaly narrows and intersected lower grade (2.64 Cg) graphite over 24 metres (Figure 28).

Hole CK-17-04 was drilled to the northwest across a small EM anomaly at the north end of the main conductor. It intersected a near surface interval of 10.5 over 18 metres from 5 metres and a second interval grading 6.25% Cg over 18 metres from 56 metres. A third interval intersected 8.87% Cg over 47 metres from 155 metres in marble and calc-silicate rocks (Figure 29).

Hole CK-17-05 was drilled to the southeast across the EM conductor and under Trench TR17-03. It intersected 5.68% Cg over 40 metres, starting at 49 metres, that included a slightly higher grade interval of 7.36% Cg over 15 metres (Figure 30).

Hole CK-18-06 was drilled to the northwest to test the thickest portion of the 1.54 kilometre long northeast-southwest trending electromagnetic (EM) conductor and intersected low grade graphite mineralization grading 1.38% Cg over 17 metres from 23 metres associated with carbonate horizons in quartzo-feldspathic paragneiss (Figure 31).

Hole CK 18-07 was drilled to the southeast through the conductor between trenches 5 and 6 from the 2017 program. The hole intersected three graphite zones between 30 and 146 metres, including 6.88% Cg over 62 metres from 30 metres, with the highest grades associated with marble zones within gneiss (Figure 32).

Hole CK18-08 was collared approximately 50m north of hole CK18-06 and drilled to the southeast. It intersected two graphite zones from 46 to 63 metres and from 95 to 108 metres with higher grades again associated with marble horizons (Figure 33).

Hole CK18-09 was drilled to the northwest across a narrowing of the EM anomaly and intersected three graphite zones between 6 metres and 157 metres, including a grade of 4.94% Cg intersected over 66 metres in Hole CK18-09 from six metres, that included higher grade near surface intervals of 14.52% Cg over four metres and 13.52% Cg over three metres (Figure 34).

Holes CK18-10 (Figure 35) and CK18-11 (Figure 36) were drilled across conductors in the vicinity of trench 2 and trench 10, respectively. Both holes showed relatively narrow intervals of graphite grading 8.47% Cg over 3m and 4.01% Cg over 15m, respectively. All intervals were associated with marble, as is typically the case with the higher-grade graphite intersections drilled during the program.

10. Sample Preparation, Analysis and Security

Intervals of diamond drill core were selected and marked for sampling by the geologist. Drill core was cut in half using a rock saw and one half of the core was sampled and the other half was retained for future reference. Channel samples from trenches were taken using a rock saw and consisted of channels approximately two inches wide through the mineralized zones and into the wall rock.

Both drill core and trench samples were placed in a plastic sample bag labelled with the sample number along with a sample tag. Bags were sealed with a single use tie. Samples were securely stored prior to shipping to SGS Canada Inc of Lakefield Ontario a laboratory accredited to the ISO/IEC 17025 standard.

Sample preparation at Lakefield included weighing and drying, following which samples were crushed to 75% passing 2mm. A 250g split was pulverized to 85% passing 75 microns prior to analysis. The analytical method consisted of roasting of the sample followed by a HCl leach prior to being assayed by the combustion infrared technique (LECO).

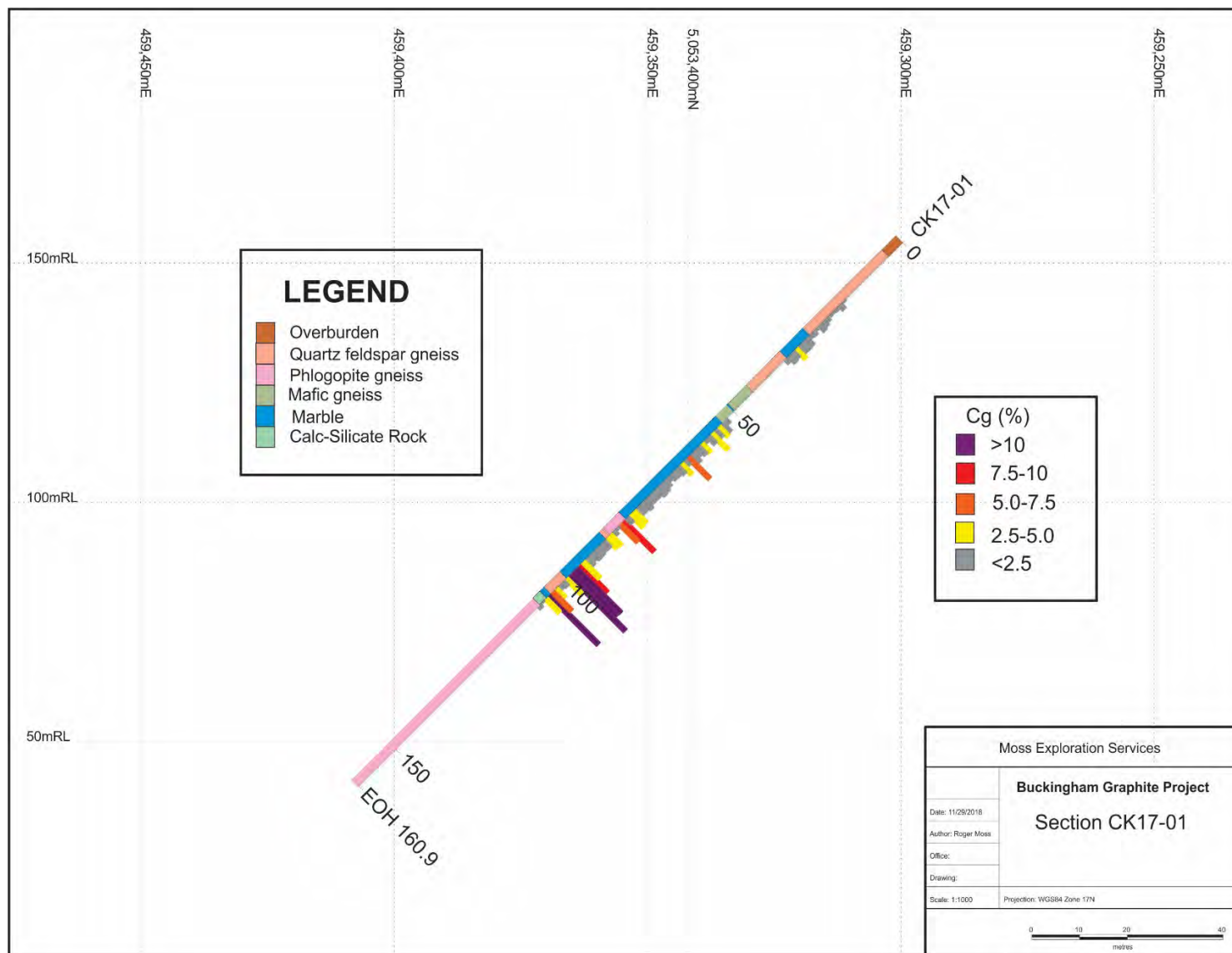


Figure 26. Cross section of drillhole CK17-01.

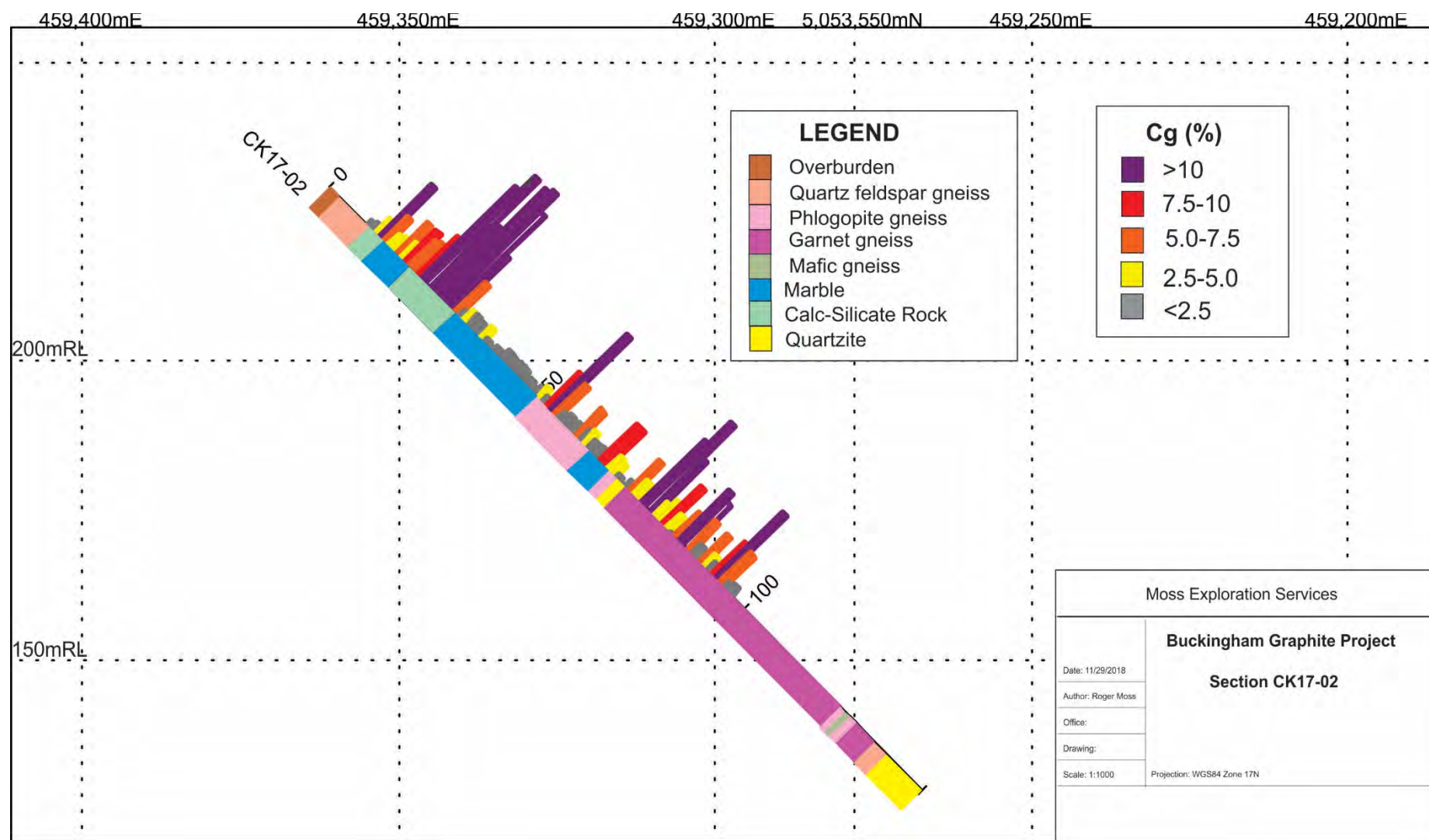


Figure 27. Cross section of drillhole CK17-02.

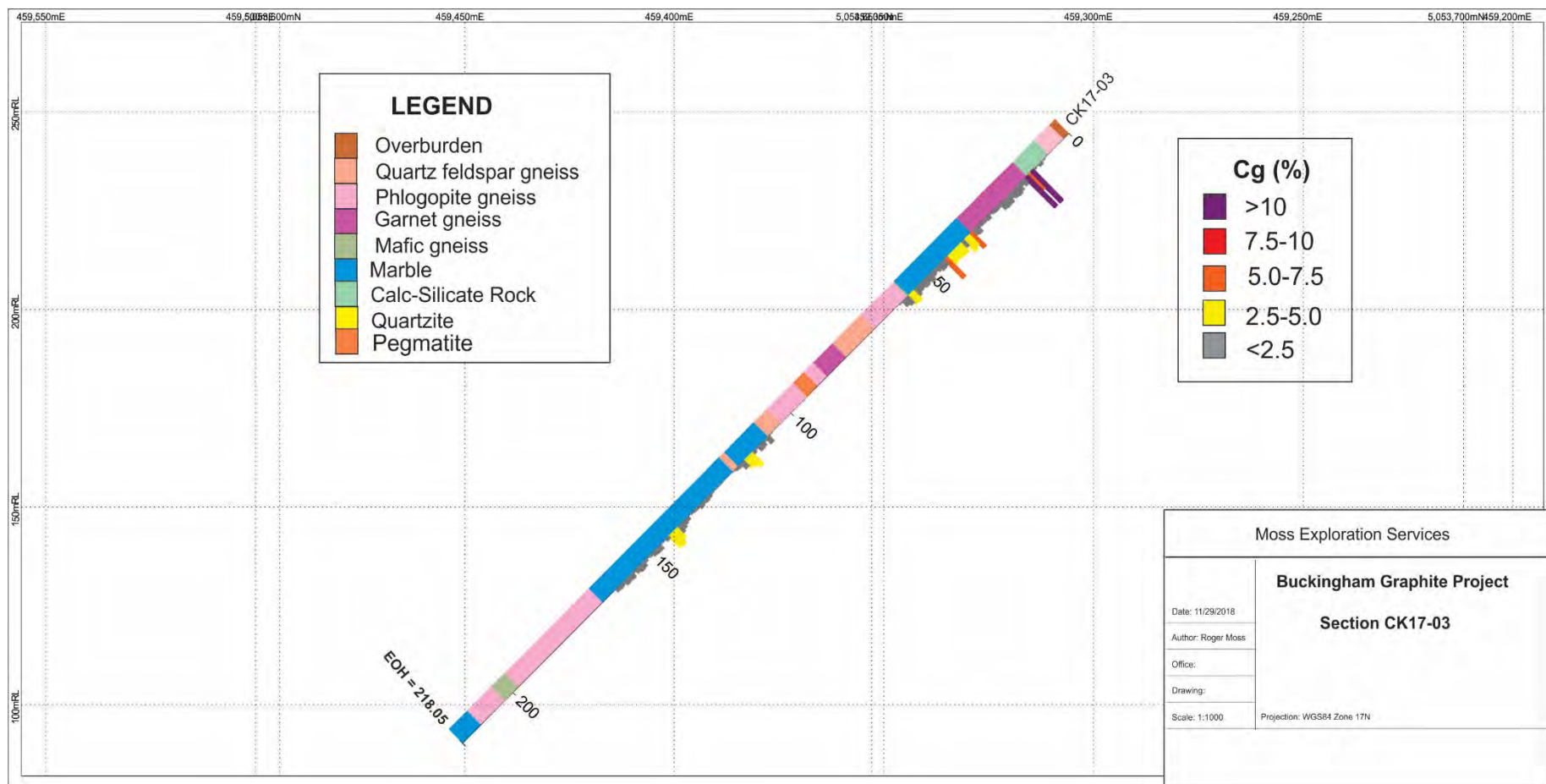


Figure 28. Cross section of drillhole CK17-03.

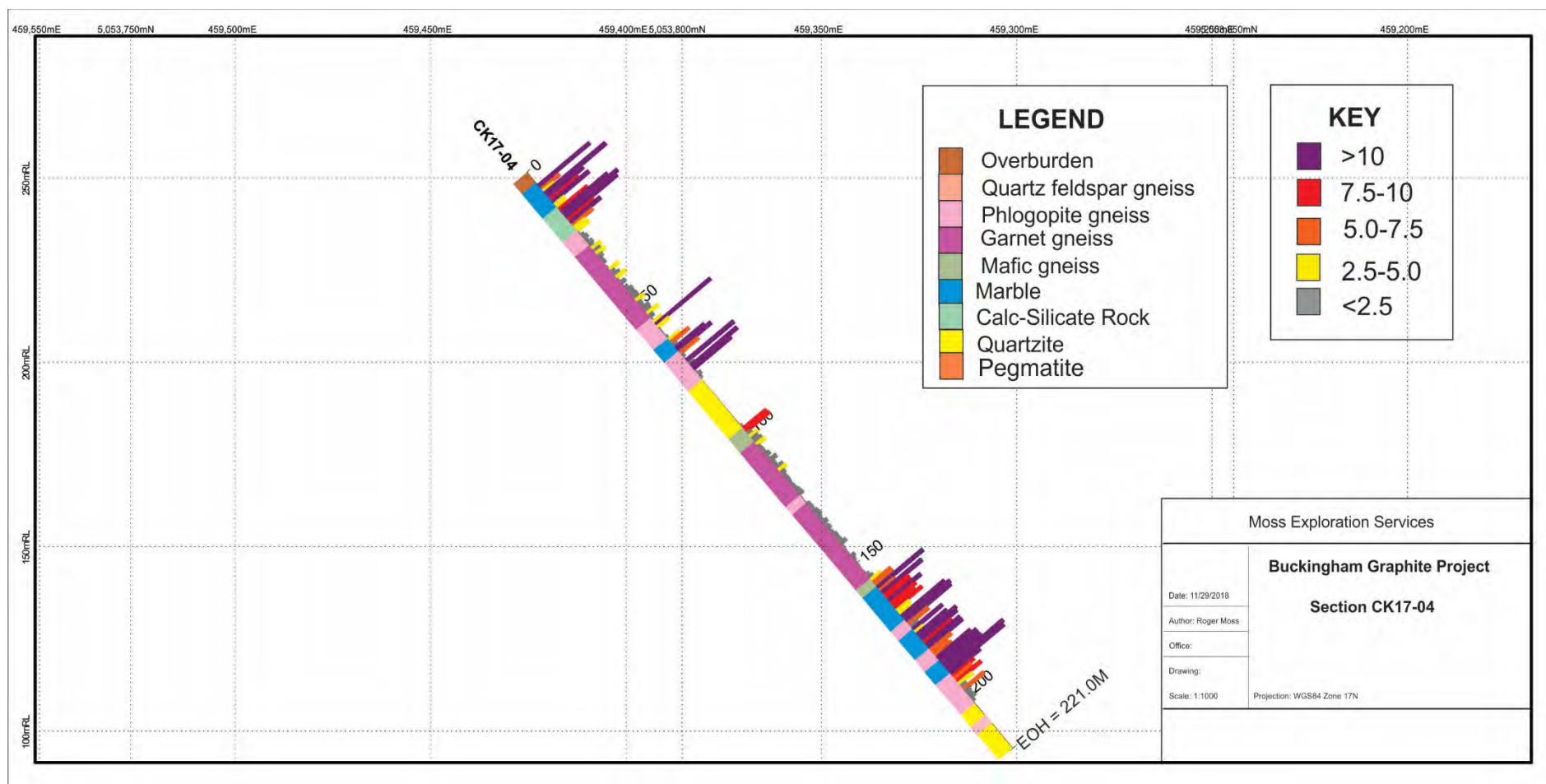


Figure 29. Cross section of drillhole CK17-04.

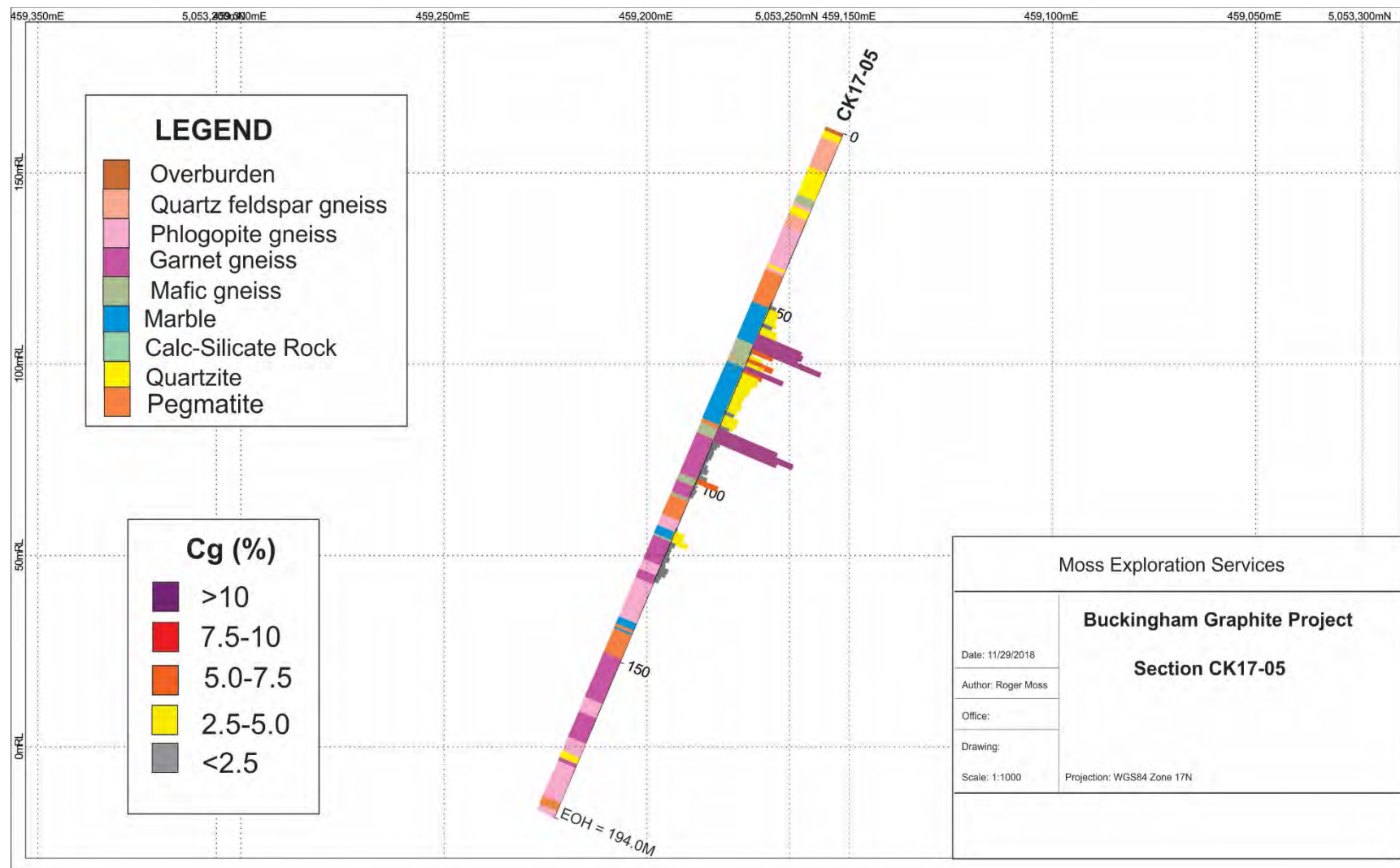


Figure 30. Cross section of drillhole CK17-05.

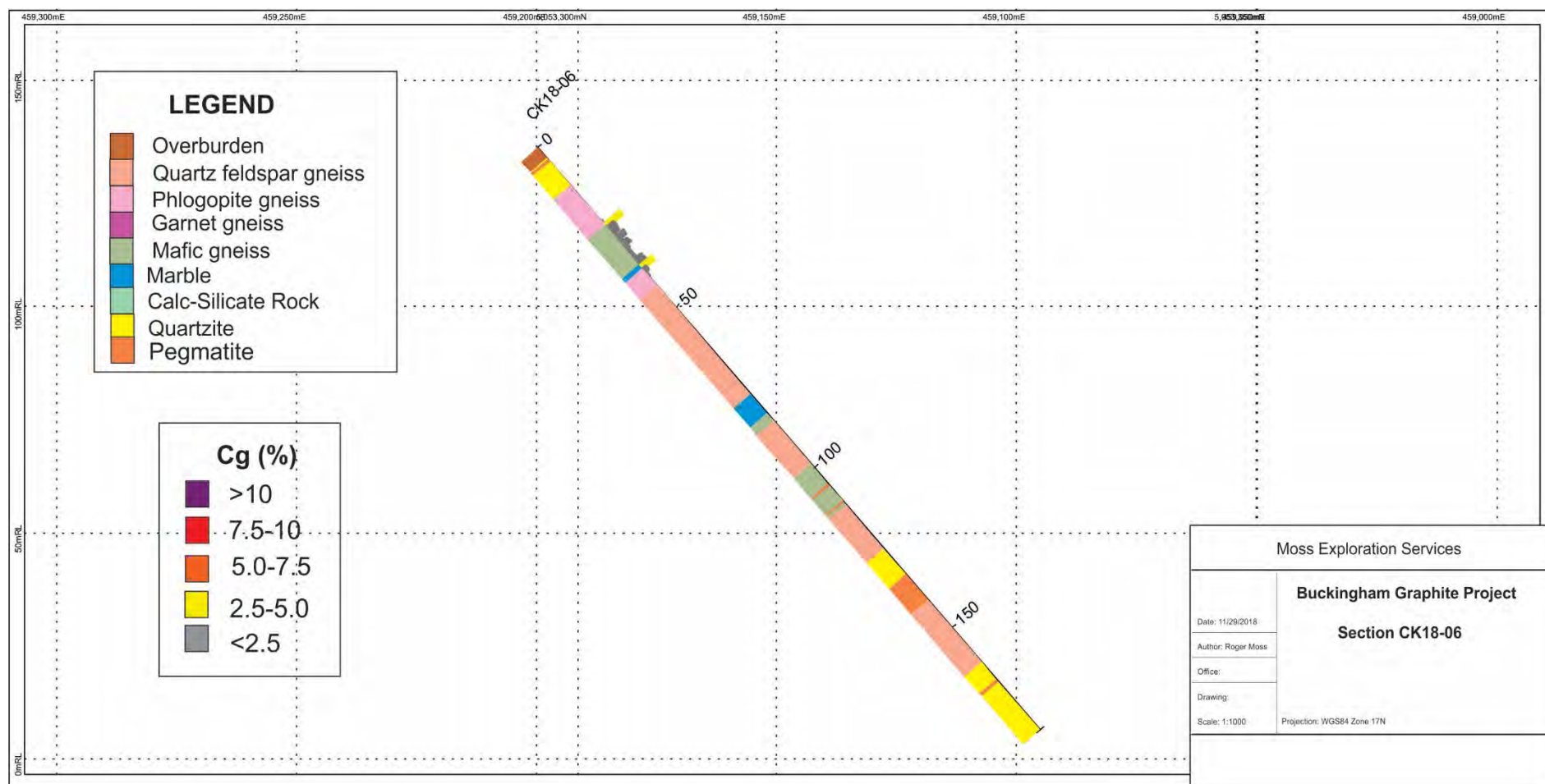


Figure 31. Cross section of drillhole CK18-06.

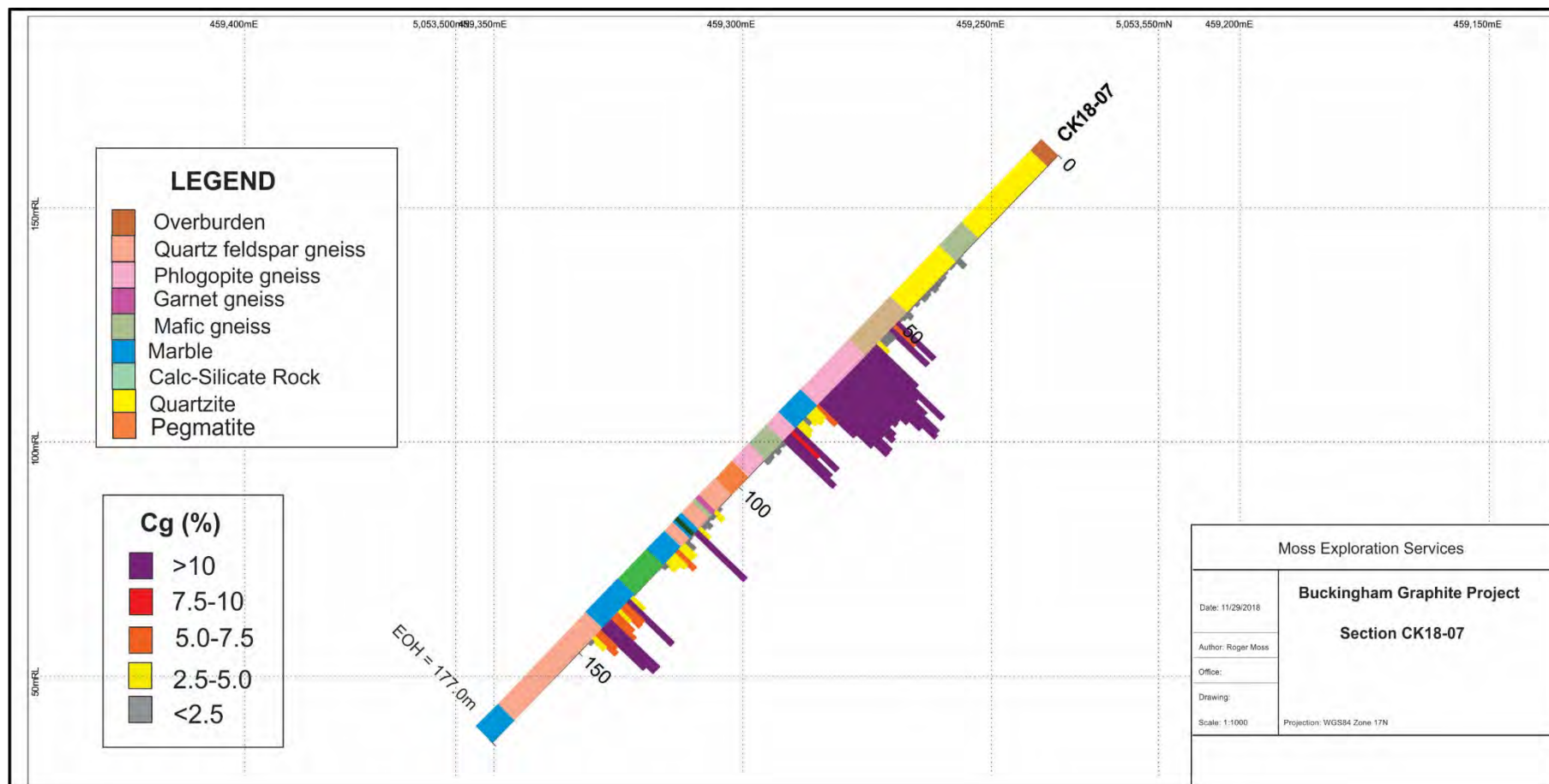


Figure 32. Cross section of drillhole CK18-07.

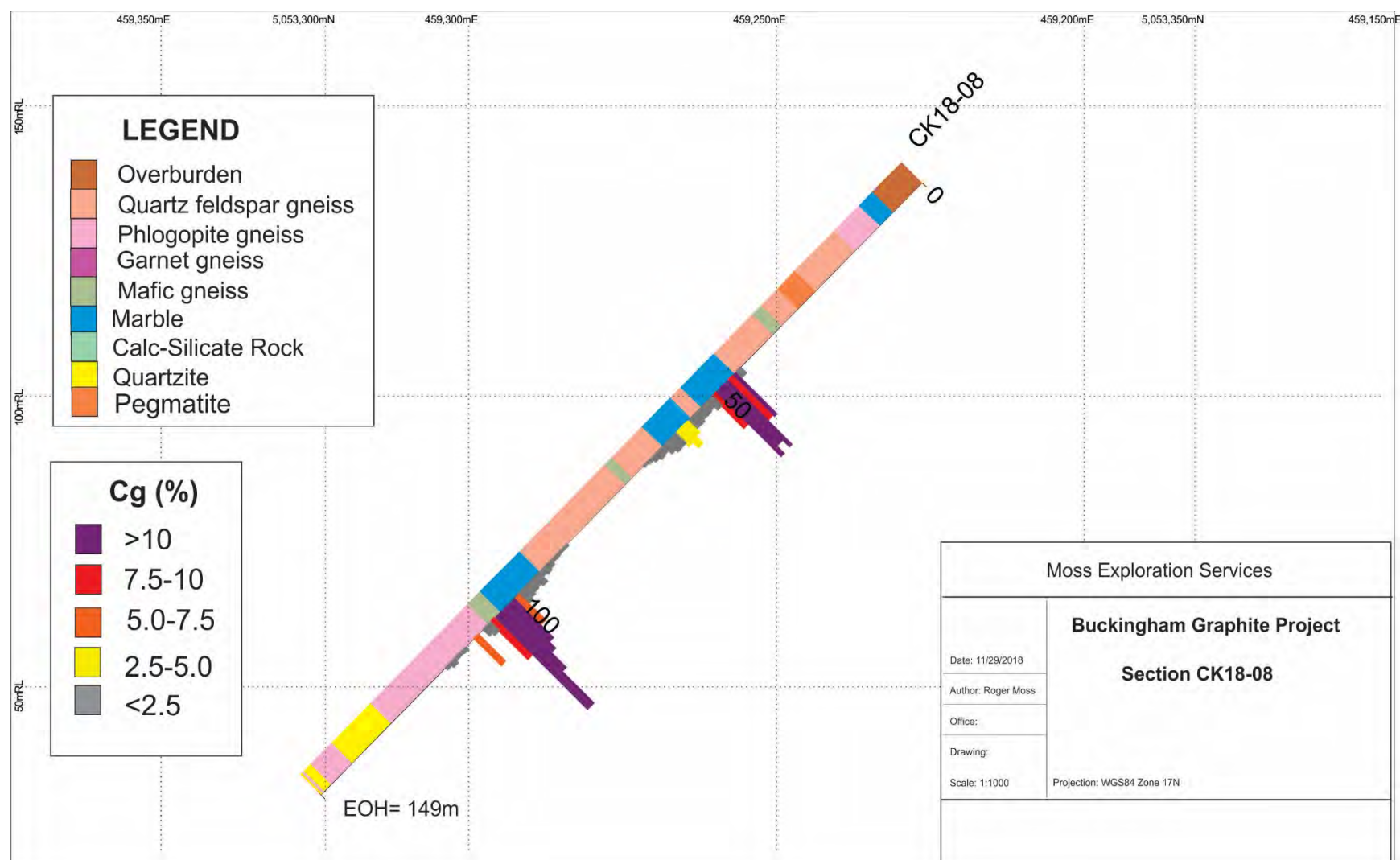


Figure 33. Cross section of drillhole CK18-08.

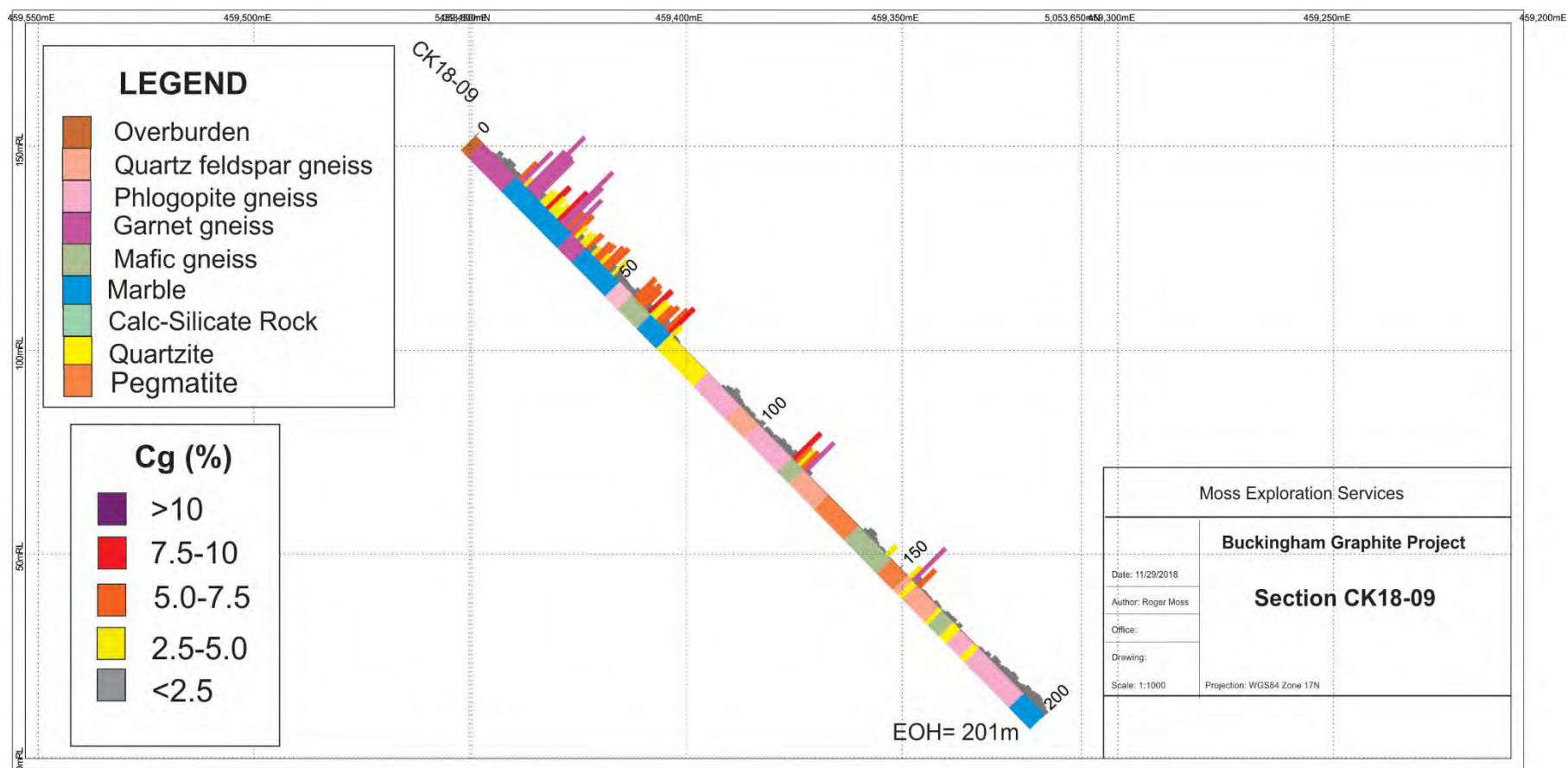


Figure 34. Cross section of drillhole CK18-09.

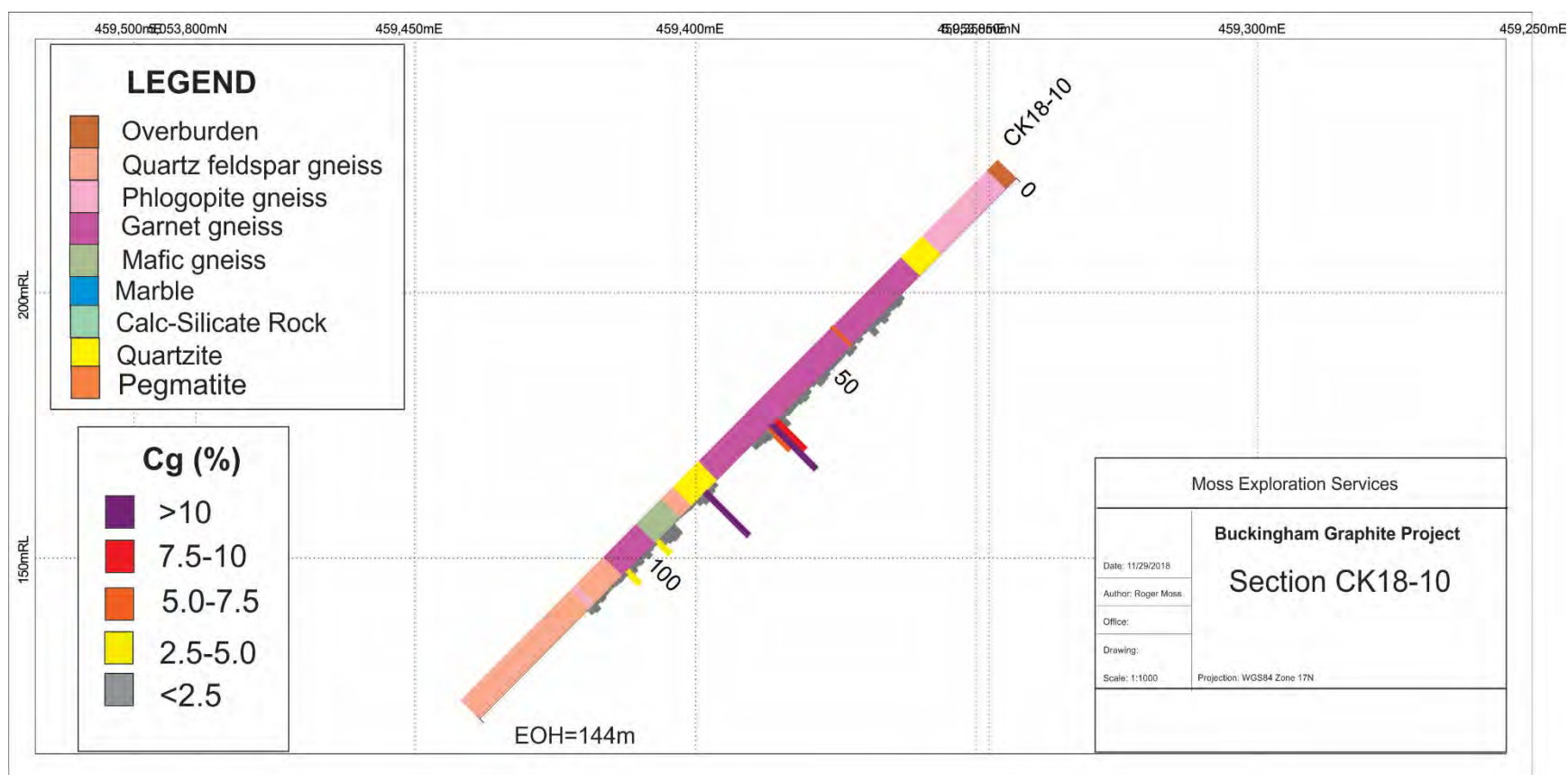


Figure 35. Cross section of drillhole CK18-10.

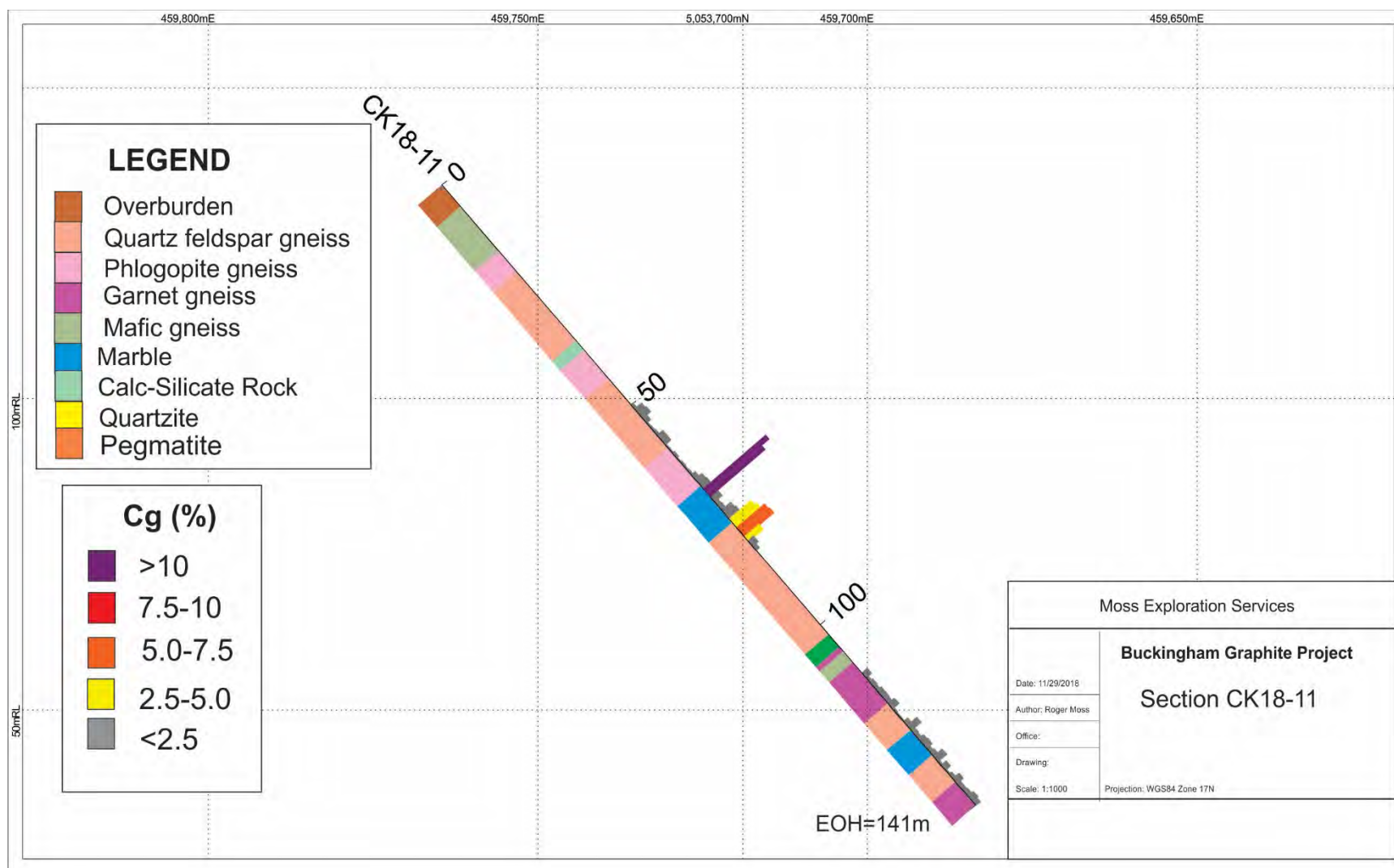


Figure 36. Cross section of drillhole CK18-11.

The Company routinely submits standards, duplicates and blanks with sample batches to monitor the quality of the assays.

In the opinion of the Author, sample preparation, security, analytical procedures and analyses are consistent with industry best practice and are adequate for the purposes used in this technical report.

11. Data Verification

The author reviewed and verified the assay database for the Buckingham graphite deposit. The verification work included a review of the QA/QC methods and results, checking assay certificates against the database assay table, and standard database validation tests.

The review of the database included manual verification of collar, lithology and assay tables. The assay table was also reviewed for outliers. A visual check on the drill hole collar elevations and drill hole traces was completed.

The author verified assay records by comparing assays in the database to the digital laboratory certificates of analysis, which were received directly from SGS. No discrepancies were found.

The Company's QA/QC methods included the insertion of blanks, standards and duplicates with each batch submitted to the laboratory. The type of quality control data collected and the performance is summarized in Table 8 and discussed below.

	Total	%	Comment	Cg (%)
Total Samples	973			
Blanks	49	5		
Duplicates	49	5		
Standards	17	1.7	CDN Resource Laboratories	3.12± 0.11
Total QC Samples	115	11.8		

Table 8. Summary of analytical quality control data

Only one of the blanks submitted reported more than the analytical detection limit. The performance of the blank samples is thus acceptable and sample contamination is not suspected. The performance of standard CDN-GR-01 used is also acceptable. Only one of the 17 assays fall outside the range (Figure 37) representing a failure rate of 6%.

The performance of the duplicates varies widely from no difference to a difference of 47%, with 19 of the 49 samples having a difference of more than 10%. This is likely due to the inhomogenous nature of the graphite mineralization requiring larger samples to determine the reproducibility of the assays.

Following the verification, the author considers the database reliable and appropriate to the current stage of the project.

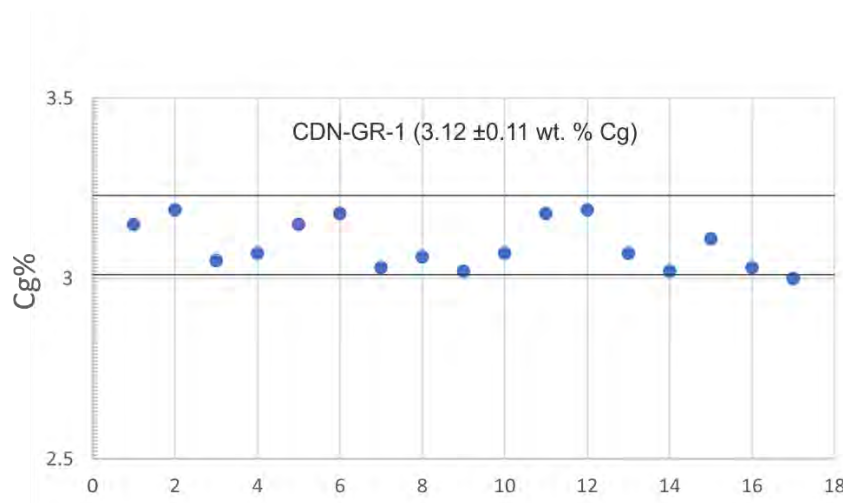


Figure 37. Performance of Standard CDN-GR-1.

12. Mineral Processing and Metallurgical Testing

2015 SGS Canada Inc. (Lakefield) Testing.

On February 17, 2015, Gratomic (then Caribou King Resources) announced results of metallurgical testing of a single 2 kilogram (kg) surface sample taken from a vein in the Uncle Zone. The sample, with a head grade of 55.8% Cg, was concentrated by grinding and flotation and was divided into ten size fractions, including: +28 (Super Jumbo Flake), +35 (Jumbo Flake), +48 (Jumbo Flake) and +65 mesh (Large Flake). Results demonstrated that these concentrate fractions, ranging from large flake to super jumbo flake, totaled 46.7% of the sample. Assays were carried out on each of the size distributions and large flake sizes (+65 mesh or > 212 microns) returned 98.4 % Cg with the highest assay of 99.4 % Cg being returned from the +48 mesh fraction. Results for the combined concentrates are listed in Table 9 below. These results were obtained in a single flotation test without process optimization. The carbon analyses were performed by SGS Canada Inc. (Lakefield) and are reported as graphitic carbon Cg employing a LECO SC-632 instrument.

Table 9. Initial Flotation Test Results: Combined concentrates

Concentrate Fraction	Distribution (%)	Assay (% Cg)
+28 mesh	2.2	98.9
+35 mesh	9.5	98.4
+48 mesh	17.2	99.4
+65 mesh	18.6	98.4
+100 mesh	14.2	97.0
+150 mesh	11.4	97.1
+200 mesh	6.0	97.0
+270 mesh	4.5	96.2
+400 mesh	5.9	95.1
-400 mesh	10.5	92.4
Total recovery (%)	100.0	

*Flotation test analysis from a 1kg portion of the 2kg bulk sample.

13. Mineral Resource Estimate to 21. Economic Analysis

These sections are not applicable.

22. Adjacent Properties

There are no significant properties adjacent to the claim block of the Buckingham property.

23. Other Relevant Data and Information

No additional information or explanation is required to make the Technical Report understandable and not misleading.

24. Interpretation and Conclusions

The Buckingham graphite property of Gratomic Inc. hosts significant graphite and includes both vein and disseminated styles of mineralization. The mineralization occurs in two main zones: the Uncle Zone and the Case Zone. Disseminated flake type graphite is the more widespread style of mineralization and occurs throughout the paragneiss and marble sequence comprising the Case Zone. The vein type graphite occurs as cm scale veins of coarse-grained graphite typically hosted in marble and/or paragneiss of the Uncle Zone. Graphite occurs at surface in both zones.

Following initial prospecting of the Uncle Zone, most of the exploration has been focused on the Case Zone that is outlined by an electromagnetic conductor that stretches over 1.54 kilometres in a northeast-southwest direction. Graphite mineralization in the Case Zone yielded values ranging from 1.6% Cg to 28.7% Cg in 35 grab samples collected in 2015. Drilling and trenching programs in 2016 and 2017 have tested the EM conductor over approximately 700 metres along strike and to vertical depths of up to 111 metres. Significant mineralized intercepts were returned from the entire length of the drill-tested EM conductor. From the NE to the SW, best intersections include 8.87% Cg over 47 m (ddh CK17-04), 4.94% Cg over 66 m (ddh CK18-09), 6.06% Cg over 88 m (ddh CK17-02), 6.88% Cg over 62 m (ddh CK18-07), 3.52% Cg over 53 m (ddh CK17-01) 5.86% Cg over 17 m (ddh CK17-08) and 5.68% Cg over 40 m (ddh CK17-05). These intersections do not represent true widths as more structural data is needed for their calculation.

Graphite is associated with paragneiss and marble, with the highest grades typically hosted by marble. In addition to the surface mineralization seen in outcrop and in trenches, up to three discrete zones of graphite mineralization were intersected in the drilling, although most of the graphite was encountered at vertical depths less than 64 metres.

Grinding and flotation of a single 2 kilogram (kg) surface sample grading 55.8% Cg taken from a vein in the Uncle Zone was undertaken in 2015. Results demonstrated that concentrate fractions ranging from large flake (+65 mesh) to super jumbo flake (+28 mesh) totaled 46.7% of the sample. Assays of each of the size distributions and large flake sizes (+65 mesh or > 212 microns) returned between 98.4% Cg and 99.4% Cg with the highest assay being from the +48 mesh fraction.

25. Recommendations

Exploration at the Buckingham graphite project has demonstrated significant graphite mineralization over a strike length of 700 metres within an EM conductor stretching over 1.54 kilometres and merits further work. The follow up work should be done in two phases as follows:

PHASE 1

1. extend mapping and sampling along strike to the south of the previous work,
2. extend trenching to the south to test the southern portion of the large EM conductor,
3. test the recovery and size distribution of graphite from the Case Zone by conducting further metallurgical testing preferably on a bulk sample of graphite from surface exposures found in trenches as well as smaller samples from the graphite zones intersected in drill holes

PHASE 2

A follow up infill drilling program in the northern part of the property and step outs to the south if warranted by phase 1 work. The drilling program should be designed with the goal of outlining an initial graphite resource.

Table 10. Budget

PHASE 1				
Item	Unit	Cost/Unit (\$)	No. of Units	Total cost
Geologist	days	550	15	\$9,750
Assistant	days	400	15	\$6,750
Excavator	hours	180	50	\$9,000
Excavator Mob and Demob	Global			\$2,000
Truck rental	days	100	15	\$1,500
Equipment rental	Global			\$2,820
Gas	days	20	15	\$300
Food and Accommodation	days	350	15	\$5,250
Field Supplies including saw blades	Global			\$2,100
Assays	sample	35	250	\$8,750
Total				\$48,220

PHASE 2				
Item	Unit	Cost/Unit (\$)	No. of Units	Total cost
Geologist	days	550	60	\$39,000
Assistant	days	400	60	\$27,000
Drilling	Metres	150	5,000	\$700,000
Mob/Demob	Global			\$12,000
Hole Surveys	Global			\$10,000
Pad preparation and road Maintenance	Global			\$10,000
Truck rental	days	100	60	\$6,000
Equipment rental	Global			\$9,000
Gas	days	20	60	\$1,200
Food and Accommodation	days	350	60	\$21,000
Field Supplies	Global			\$9,800
Assays	sample	35	1,000	\$35,000
TOTAL				\$880,000

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Effective Date of Report: March 16, 2018

Dated this ninth day of December 2020.



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Roger Moss, Ph.D., P.Geo.

Certificate of Author

Roger Moss

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I, Roger Moss, Ph.D., P.Geo. do hereby certify that:

1. I am President of Moss Exploration Services, 866 Davenport Rd., Toronto, ON. M6G 2B6
2. I graduated with a Ph.D. degree in Geology from the University of Toronto in 2000. In addition, I have obtained a M.Sc. degree in Geology from the University of Toronto in 1995 and a B.Sc. in Geology from the University of the Witwatersrand, Republic of South Africa in 1988.
3. I am a member in good standing of the Association of Professional Geoscientists of Ontario (Registration Number 0192), the Professional Engineers and Geoscientists Newfoundland and Labrador (Registration Number 09320) and of the Society of Economic Geologists and the Prospectors and Developers Association of Canada, and I have worked as a geologist for a total of twenty years since my graduation from university.
4. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
5. I am responsible for the preparation of Sections 1 to 7 and co-authored Sections 24 to 26 of the technical report titled "TECHNICAL REPORT ON THE BUCKINGHAM GRAPHITE PROJECT, QUEBEC" and dated with an effective date of March 16, 2018 (the "Technical Report") relating to the Buckingham Property.
6. My last personal inspection of the property was from 4 to 5 June 2017 for 2 days.
7. I have had prior involvement with the property that is the subject of the technical report, since as CEO of CKR Carbon Corporation I was actively involved in the recent work at the project.
8. At the effective date of the technical report, to the best of my knowledge, information and belief, the technical report contains all scientific and technical information that is required to be disclosed to make the technical report not misleading.
9. I am independent of CKR Carbon Corporation applying all of the tests in section 1.5 of National Instrument 43-101.
10. I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
11. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication of the Technical Report by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public.

Dated this ninth day of December 2020.



Roger Moss, Ph.D., P.Geo.



Certificate of Author

I, Isabelle Robillard, P.Geo., M.Sc., do hereby certify that:

I reside at 7667 Chateaubriand Street, Montreal, Quebec, Canada H2R 2M2 and I am currently an Associate of Inlandsis Consultants s.e.n.c., located at the same address.

I received a B.Sc. in Geology from the University of Montreal in 1987 and an M. Sc. degree in Geochemistry in 1990 from McGill University. I have been working as a geologist in mineral exploration since 1997 being involved in various metal and industrial minerals. I am an active Professional Geologist presently registered with the *Ordre des Geologues du Quebec*, permit # 287.

I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101.

I am responsible for the preparation of Sections 8 to 12 and co-authored Sections 24 to 26 of the technical report titled “TECHNICAL REPORT ON THE BUCKINGHAM GRAHITE PROJECT, QUEBEC” and dated with an effective date of March 16, 2018 (the “Technical Report”) relating to the Buckingham Property.

I first visited the property in October 2013 and spent a few days prospecting the area until 2016. I supervised the drilling and trenching programs in 2017 and 2018. My last visit to the property was on February 28th, 2018, at the time of backfilling trenches TR17-01 and TR17-02.

I have had prior involvement with the Buckingham Graphite Project which is the subject of this Technical Report since I have supervised periods of work between 2013 and 2018. I am independent of Gratomic Inc. and I am acting as a consulting geologist for Gratomic Inc.

As of the date of this Assessment Report, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.

Dated this ninth day of December 2020



Isabelle Robillard

M.Sc., P. Geo, OGQ 287

APPENDIX 1

2016 Trenching

Sample descriptions and results

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-01	459802	5053694	10	Composite sample: medium grained paragneiss, gray, 50-80% qtz , 20-35% feldspar, 5% mica, 1-3% sulphides (disseminated/chunks)		6554151	0.0785
BUK-16-02	459798	5053696	10	Composite sample: medium grained paragneiss, gray, 50-80% qtz , 20-35% feldspar, 5% mica, 1-3% sulphides (disseminated/chunks)		6554152	0.367
BUK-16-03	459789	5053698	10	Composite sample: medium grained paragneiss, gray, 50-80% qtz , 20-35% feldspar, 5% mica, 1-3% sulphides (disseminated/chunks)		6554153	0.174
BUK-16-04	459774	5053702	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 1-5% graphite	2	6554154	0.138
BUK-16-05	459772	5053703	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10% graphite	2	6554155	0.675
BUK-16-06	459771	5053703	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10% graphite	1	6554156	7.47
BUK-16-07	459770	5053704	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10% graphite	1	6554157	15.3
BUK-16-08	459769	5053704	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10% graphite, qtz-feldspar band, gp veinlet .	1	6554158	4.58
BUK-16-09	459767	5053705	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10%	2	6554159	4.52
BUK-16-10	459766	5053706	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10%	2	6554160	6.5
BUK-16-11	459765	5053706	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5-10% graphite, qtz-feldspar band, gp veinlet .	1.3	6554161	15.3
BUK-16-12	459762	5053708	10	coarse grained marble, white to light gray, 5-10% graphite	1	6554162	10.2
BUK-16-13	459760	5053708	10	coarse grained marble, white to light gray, 5% graphite	2	6554163	7.37
BUK-16-14	459748	5053706	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5% graphite	1.7	6554164	0.44
BUK-16-15	459742	5053709	10	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5% graphite	1.8	6554165	0.83
BUK-16-16	459312	5053698	3	banded black paragneiss, biotite	1	6554166	1.17

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-17	459311	5053699	3	banded black paragneiss, biotite	1	6554167	3.06
BUK-16-18	459310	5053699	3	banded black paragneiss, biotite	0.9	6554168	11.8
BUK-16-19	459311	5053702	3	banded black paragneiss, biotite	2	6554169	3.12
BUK-16-20	459309	5053702	3	banded black paragneiss, biotite	1	6554170	8.72
BUK-16-21	459308	5053703	3	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5% graphite	2	6554171	1.15
BUK-16-22	459306	5053704	3	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5% graphite	2	6554172	0.484
BUK-16-23	459305	5053705	3	medium grained, white paragneiss: 60-80% qtz, 20-30% feldspar, 1% sulphides, 5% graphite	1.7	6554173	0.0372
BUK-16-24	459343	5053688	3	Ligth gray marble, medium grained, traces of pyrite	2	6554174	1.49
BUK-16-25	459344	5053686	3	Ligth gray marble, medium grained, traces of pyrite	2	6554175	1.78
BUK-16-26	459345	5053686	3	gray marble with biotite or amphibolite centimetric nodules	1.2	6554176	0.575
BUK-16-27	459347	5053684	3	Ligth gray marble, medium grained, traces of pyrite	1.7	6554177	2.23
BUK-16-28	459349	5053683	3	Ligth gray marble, medium grained, traces of pyrite	2	6554178	2.22
BUK-16-29	459351	5053681	3	Ligth gray marble, medium grained, traces of pyrite	2.1	6554179	1.41
BUK-16-30	459352	5053679	3	Ligth gray marble, medium grained, traces of pyrite	1	6554180	1.11
BUK-16-31	459352	5053679	3	Light gray, coarse grained marble, large gp flakes (5-8 mm) associated with pegmatite centimetric networks.	1	6554181	1.7
BUK-16-32	459353	5053678	3	Light gray, coarse grained marble, large gp flakes (5-8 mm) associated with pegmatite centimetric networks.	1.4	6554182	1.42

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-33	459355	5053677	3	banded black paragneiss, biotite	1	6554183	3.84
BUK-16-34	459356	5053676	3	banded black paragneiss, biotite	1	6554184	0.585
BUK-16-35	459357	5053675	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides	2	6554185	0.165
BUK-16-36	459359	505375	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides, intruded by a felsic cm dyke	1	6554186	0.0458
BUK-16-37	459359	5053674	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides, large Gp flakes	1	6554187	2.02
BUK-16-38	459360	5053673	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides, large Gp flakes	1.2	6554188	2.67
BUK-16-39	459362	5053672	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides	1.2	6554189	0.47
BUK-16-40	459362	5053671	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides	1.2	6554190	0.271
BUK-16-41	459363	5053670	3	banded black paragneiss, medium grained, presence of biotite, chlorite and 1-5% of sulphides (disseminated/chunks)	2	6554191	0.195
BUK-16-42	459363	5053668	3	Medium grained, black paragneiss , 1-5% sulphides (disseminated/chunks), biotite, chlorite,	2	6554192	0.793
BUK-16-43	459364	5053667	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides	1.2	6554193	4.89
BUK-16-44	459365	5053666	3	banded black paragneiss, medium grained, presence of biotite and traces of sulphides	1.1	6554194	5.07
BUK-16-45	459372	5053674	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554195	0.539
BUK-16-46	459374	5053673	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554196	1.22
BUK-16-47	459375	5053671	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554197	0.883
BUK-16-48	459377	5053671	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554198	1.08

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-49	459379	5053670	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554199	0.979
BUK-16-50	459381	5053669	3	±Carbonated paragneiss, greenish in color and medium grained, tr-1% sulphides	2	6554200	1.22
BUK-16-51	459349	5053521	6	Composite sample: medium grained, gray paragneiss, ± carbonated with 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)		6554201	0.172
BUK-16-52	459346	5053523	6	Composite sample: medium grained, gray paragneiss, ± carbonated with 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)		6554202	0.141
BUK-16-53	459344	5053524	6	Composite sample: medium grained, gray paragneiss, ± carbonated with 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)		6554203	0.519
BUK-16-54	459342	5053524	6	Composite sample: coarse grained, medium gray marble, ±banded		6554204	0.552
BUK-16-55	459340	5053525	6	Composite sample: coarse grained, medium gray marble, ±banded		6554205	2.18
BUK-16-56	459321	5053534	6	Composite sample: medium grained paragneiss , dark gray/black, 30-50% qtz , 20-35% feldspar, micas, 1-3% sulphides (disseminated/chunks)		6554206	0.806
BUK-16-57	459320	5053533	6	Composite sample: medium grained paragneiss , dark gray/black, 30-50% qtz , 20-35% feldspar, micas, 1-3% sulphides (disseminated/chunks)		6554207	0.283
BUK-16-58	459320	5053534	6	Composite sample: medium grained paragneiss, black, 30-50% qtz , 20-35% feldspar, micas, 1-3% sulphides (disseminated/chunks)		6554208	2.79
BUK-16-59	459319	5053534	6	Composite sample: medium grained paragneiss, black, 30-50% qtz , 20-35% feldspar, micas, 1-3% sulphides (disseminated/chunks)		6554209	0.407
BUK-16-60	459318	5053535	6	Composite sample: medium grained paragneiss, gray, ± carbonated, 50-80% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554210	0.782
BUK-16-61	459317	5053534	6	Composite sample: medium grained paragneiss, gray, ± carbonated, 50-80% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554211	0.34
BUK-16-62	459314	5053534	6	Composite sample: medium grained paragneiss, gray, ± carbonated, 50-80% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554212	1.8
BUK-16-63	459304	5053535	6	Composite sample: medium grained paragneiss, gray, ± carbonated, 30-50% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554213	1.46
BUK-16-64	459303	5053535	6	Composite sample: medium grained paragneiss, gray/black, ± carbonated, 30-50% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554214	1.62

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-65	459300	5053536	6	Composite sample: medium grained paragneiss, gray/black, ± carbonated, 30-50% qtz , 20-35% feldspar , 5% mica, 1-3% sulphides (disseminated, chunks)		6554215	17.3
BUK-16-66	459311	5053534	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554216	1.24
BUK-16-67	459310	5053533	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554217	1.95
BUK-16-68	459309	5053533	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554218	0.616
BUK-16-69	459308	5053533	6	Medium grained paragneiss, gray/black, traces of sulphides	1	6554219	1.94
BUK-16-70	459307	5053534	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554220	1.28
BUK-16-71	459306	5053534	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554221	3.05
BUK-16-72	459305	5053534	6	Medium grained paragneiss, gray/black, ± carbonated, traces of sulphides	1	6554222	4.04
BUK-16-73	459383	5053669	3	Medium grained paragneiss , gray, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks), 10-15% Gp over a 40 cm interval.	1.4	6554223	0.919
BUK-16-74	459384	5053667	3	Medium grained paragneiss , gray, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	2	6554224	0.737
BUK-16-75	459385	5053666	3	Medium grained paragneiss , gray, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.7	6554225	0.773
BUK-16-76	459386	5053665	3	Medium grained paragneiss , gray, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.7	6554226	0.164
BUK-16-77	459389	5053666	3	Medium grained paragneiss , dark green/black, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	0.9	6554227	0.132
BUK-16-78	459395	5053668	3	Medium grained paragneiss , dark green/black, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.3	6554228	0.57
BUK-16-79	459396	5053669	3	Medium grained paragneiss , dark green/black, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.2	6554229	5.87
BUK-16-80	459397	5053668	3	Medium grained paragneiss , dark green/black, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.3	6554230	1.54

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-81	459398	5053669	3	Medium grained paragneiss , dark green/black, ± carbonated 40-60% qtz , 20-35% feldspar, micas, tr-1% sulphides (disseminated/chunks)	1.3	6554231	0.818
BUK-16-82	459412	5053778	2	Medium grained, black paragneiss, traces of sulphides, pink garnet, Gp veinlets	1	6554232	0.824
BUK-16-83	459413	5053777	2	Medium grained, black paragneiss, traces of sulphides, pink garnet, Gp veinlets	1.3	6554233	1.32
BUK-16-84	459414	5053776	2	Medium grained, black paragneiss, traces of sulphides, pink garnet, Gp veinlets	0.8	6554234	2.47
BUK-16-85	459415	5053775	2	Medium grained, black paragneiss, traces of sulphides, cm bands of quartzite, pink garnet	2	6554235	0.68
BUK-16-86	459416	5053773	2	Medium grained, black paragneiss, traces of sulphides, pink garnet, Gp veinlets	1.1	6554236	0.357
BUK-16-87	459416	5053772	2	Medium grained, black paragneiss, traces of sulphides, pink garnet, Gp veinlets	1.1	6554237	2.18
BUK-16-88	459394	5053790	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	2	6554238	1.48
BUK-16-89	459393	5053791	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554239	1.42
BUK-16-90	459392	5053791	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554240	1.11
BUK-16-91	459391	5053792	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554241	1.12
BUK-16-92	459390	5053792	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554242	1.94
BUK-16-93	459389	5053793	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554243	3.16
BUK-16-94	459388	5053793	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554244	1.47
BUK-16-95	459387	5053794	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554245	5
BUK-16-96	459387	5053794	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554246	1.81

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-97	459386	5053795	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554247	2
BUK-16-98	459385	5053796	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554248	5.55
BUK-16-99	459385	5053796	2	± foliated paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554249	6.6
BUK-16-100	459384	5053797	2	± foliated greenish paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554250	5.19
BUK-16-101	459383	5053798	2	± foliated greenish paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1.1	6554251	0.713
BUK-16-102	459382	5053799	2	± foliated greenish paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554252	4.28
BUK-16-103	459382	5053799	2	± foliated greenish paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554253	0.769
BUK-16-104	459381	5053800	2	± foliated greenish paragneiss, 5% biotite, pink garnet, centimetric qtz/feldspar veinlets	1	6554254	2.37
BUK-16-105	459379	5053800	2	± foliated, black paragneiss, 5% biotite, pink garnet	2	6554255	1.95
BUK-16-106	459375	5053801	2	± foliated, black paragneiss, 5% biotite, pink garnet	2	6554256	4.14
BUK-16-107	459373	5053802	2	± foliated, black paragneiss, 5% biotite, pink garnet	2	6554257	1.77
BUK-16-108	459372	5053803	2	Banded paragneiss, black with 5% of biotite, pink garnet,	2	6554258	0.733
BUK-16-109	459371	5053804	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554259	0.804
BUK-16-110	459370	5053805	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554260	0.676
BUK-16-111	459369	5053806	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554261	0.257
BUK-16-112	459369	5053806	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554262	0.145

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-113	459368	5053807	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554263	0.0923
BUK-16-114	459367	5053808	2	Banded paragneiss, black with 5% of biotite, pink garnet,	1	6554264	0.901
BUK-16-115	459366	5053809	2	Banded, gray paragneiss , silicified, presence of pink garnet	1.7	6554265	0.848
BUK-16-116	459364	5053814	2	Banded, Gray paragneiss, silicified, presence of pink garnet	1.2	6554266	0.571
BUK-16-117	459363	5053815	2	Banded, Gray paragneiss, silicified, presence of pink garnet	1.2	6554267	0.145
BUK-16-118	459374	5053892	1	Banded, Gray paragneiss, silicified, presence of pink garnet	2	6554268	0.0953
BUK-16-119	459376	5053890	1	Banded, Gray paragneiss, silicified, presence of pink garnet	2	6554269	0.29
BUK-16-120	459377	5053889	1	Banded, Gray paragneiss, silicified, presence of pink garnet	1	6554270	0.598
BUK-16-121	459378	5053888	1	Banded, Gray paragneiss, silicified, presence of pink garnet	1	6554271	1.35
BUK-16-122	459379	5053887	1	Banded, Gray paragneiss, silicified, presence of pink garnet	1.4	6554272	1.12
BUK-16-123	459380	5053886	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	1.8	6554273	1.3
BUK-16-124	459381	5053886	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	1.9	6554274	0.162
BUK-16-125	459396	5053878	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	0.8	6554275	<0.01
BUK-16-126	459401	5053875	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	1.5	6554276	0.24
BUK-16-127	459404	5053873	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	0.6	6554277	0.58
BUK-16-128	459412	5053870	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	1.2	6554278	0.595

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-129	459415	5053867	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	1	6554279	3.59
BUK-16-130	459419	5053863	1	Medium grained paragneiss, 50-80% qtz , 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks)	0.7	6554280	1.16
BUK-16-131	459423	5053766	2	Silicified paragneiss (30 cm interval), paragneiss with 20% Gp (1 m interval)	1.3	6554281	4.78
BUK-16-132	459424	5053766	2	Banded black paragneiss, biotite	1.2	6554282	5.48
BUK-16-133	459427	5053764	2	Banded black paragneiss, biotite + 40 cm of silicified paragneiss	1.2	6554283	0.368
BUK-16-134	459428	5053763	2	Greenish gray paragneiss, ± silicified	1.1	6554284	0.796
BUK-16-135	459429	5053763	2	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks), cabonated zone	1	6554285	0.115
BUK-16-136	459430	5053762	2	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1	6554286	0.186
BUK-16-137	459430	5053761	2	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1	6554287	0.194
BUK-16-138	459430	5053760	2	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1	6554288	0.72
BUK-16-139	459431	5053759	2	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.3	6554289	1.17
BUK-16-140	459308	5053399	5	Composite sample: medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),		6554290	0.555
BUK-16-141	459305	5053405	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.2	6554291	0.613
BUK-16-142	459305	5053406	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.2	6554292	0.412
BUK-16-143	459302	5053413	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	2	6554293	0.295
BUK-16-144	459301	5053414	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	2	6554294	0.0929

Description of samples

Sample No	easting	northing	Trench #	DESCRIPTION	length (m)	Sample ID	C %
BUK-16-145	459291	5053420	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	2	6554295	0.118
BUK-16-146	459289	5053420	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.3	6554296	0.188
BUK-16-147	459282	5053421	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	0.6	6554297	0.0453
BUK-16-148	459273	5053425	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.4	6554298	0.0216
BUK-16-149	459272	5053425	5	Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.3	6554299	0.0254
BUK-16-151	459294	5053537	6	Black paragneiss, large Gp flakes	1	6553251	2.54
BUK-16-152	459293	5053537	6	Gray paragneiss with cm band of quartzite	1	6553252	1.57
BUK-16-153	459292	5053537	6	Gray paragneiss with cm band of quartzite	1	6553253	0.0618
BUK-16-154	459292	5053537	6	Gray paragneiss with cm band of quartzite	0.9	6553254	0.0355
BUK-16-155	459289	5053538	6	Gray paragneiss with cm band of quartzite	1.3	6553255	1.3
BUK-16-156	459282	5053542	6	Gray paragneiss with cm band of quartzite	0.3	6553256	0.0324
BUK-16-157	459242	5053551		Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1.1	6553257	0.535
BUK-16-158	459243	5053551		Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	1	6553258	0.618
BUK-16-159	459244	5053551		Medium grained, gray paragneiss, 50-80% qtz, 20-35% feldspar, 5% micas, 1-3% sulphides (disseminated/chunks),	0.9	6553259	0.715

APPENDIX 2

2017 Trenching

Sample Descriptions and Results

NO_analyse	Sample Id.	date	easting	northing	Trench	DESCRIPTION	GP % Visual estimate	Channel length (m)	orientation	Cg %
30021	TR17-01-01	17/08/30	459144.117	5053136.621	TR17-01	Foliated, fine grained greenish gray QFGN with rusty or weathered carbonated centimetric horizons;	2-4	1	310	1.13
30023	TR17-01-02	17/08/30	459143.350	5053137.264	TR17-01	Fine grained greenish gray QFGN with rusty or weathered carbonated centimetric horizons; traces of graphite, up to 5% in carbonated horizons. 3-5% sulphides	traces, up to 5% locally	1	310	1.04
30024	TR17-01-03	17/08/30	459142.584	5053137.907	TR17-01	Fine grained greenish gray QFGN with rusty or weathered carbonated centimetric horizons; up to 5% graphite in carbonated horizons. 3-5% sulphides	2-3%	1	310	0.734
30025	TR17-01-04	17/08/30	459141.875	5053138.502	TR17-01	Fine grained greenish gray QFGN with centimetric carbonated zones. From 0.9 to 1 m: coarse grained white quartzite (or qtz-rich horizon). 3-5% sulphides	traces	0.85	310	0.455
30026	TR17-01-05	17/08/30	459141.217	5053139.521	TR17-01	Fine grained greenish gray QFGN with centimetric carbonated zones. Small discontinuous graphite veinlets and chunks, locally.		1	310	0.885
30027	TR17-01-06	17/08/30	459140.451	5053140.164	TR17-01	Fine grained greenish gray QFGN with centimetric carbonated zones.		1	310	0.666
30028	TR17-01-07	17/08/30	459139.685	5053140.807	TR17-01	Fine grained greenish gray QFGN with a large carbonated zone. 3-5% sulphides	2-3	1	310	0.515
30029	TR17-01-08	17/08/30	459138.919	5053141.450	TR17-01	Fine grained greenish gray QFGN with a large carbonated zone. Graphite veinlets (photo) 3-5% sulphides		1	310	0.929
30030	TR17-01-09	17/08/30	459133.759	5053144.335	TR17-01	Marble, fine to medium grained	1-2%	1	300	2.24
30031	TR17-01-10	17/08/30	459134.335	5053142.724	TR17-01	Marble, fine to medium grained	1-2%	1	330	4.4
30032	TR17-01-11	17/08/31	459129.800	5053146.317	TR17-01	Heavily weathered rusty gneiss with >20% graphite. 5% sulphides	>20%	1	270	16
30033	TR17-01-12	17/08/31	459128.801	5053146.352	TR17-01	Heavily weathered rusty gneiss with >20% graphite. 5% sulphides	>20%	1	270	22.6
30035	TR17-01-14	17/08/31	459127.802	5053146.390	TR17-01	White and purplish, coarse grained quartzo-feldspathic gneiss with 20-25% phlogopite, 5% graphite and 3-7% sulphides	5%	1	270	4.09
30036	TR17-01-15	17/08/31	459126.800	5053146.430	TR17-01	Medium to coarse grained, greenish white and purplish garnet bearing gneiss with 5-10% phlogopite, 3-5% sulphides and 5% garnet. Garnet is pink and 3-4 mm in size and is associated with phlogopite	3-4%	1	270	0.804
30037	TR17-01-16	17/08/31	459125.610	5053146.470	TR17-01	Medium to coarse grained, greenish white and purplish garnet bearing gneiss with 5-10% phlogopite, 3-5% sulphides and 5% garnet. Garnet is pink and 3-4 mm in size and is associated with phlogopite. Moderately defined banding. From 1-1.4 m, quartz-rich rock (quartzite?) with 3-4% garnet.	2-6%	1.4	270	1.7
58451	TR17-02-1	17/08/21	459168.260	5053228.050	TR17-02	medium grained granoblastic marble. Weathered to beige orange color. First 0.5 m = 2-3% Graphite, Remaining portion = 15-20%.	5-10	1	285	2.56
58452	TR17-02-2	17/08/21	459169.260	5053227.930	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	20-25%	1	285	6.64
58453	TR17-02-3	17/08/21	459170.350	5053227.750	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	20-25%	1	285	19.4
58454	TR17-02-4	17/08/21	459171.320	5053227.560	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	20-25%	1	275	18.1
58455	TR17-02-5	17/08/21	459172.320	5053227.460	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	20-25%	1	275	18.1
58456	TR17-02-6	17/08/21	459173.310	5053227.350	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	20-25%	1	275	21.7
58457	TR17-02-7	17/08/21	459174.310	5053227.250	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	15-20%	1	275	12.9
58458	TR17-02-8	17/08/21	459175.300	5053227.140	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes)	15-20%	1	275	5.19
58459	TR17-02-9	17/08/21	459176.520	5053227.440	TR17-02	Highly mineralized marble, beige orange to black (graphite flakes).	15-20%	1	295	15.4
58460	TR17-02-10	17/08/21	459177.850	5053227.440	TR17-02	mineralized marble, beige orange dotted with greenish rounded mineral (diopside?). Disseminated Graphite flakes (1 mm). 2% pyrite	5-10%	1	295	9.1
58462	TR17-02-11	17/08/21	459178.940	5053227.140	TR17-02	slightly mineralized gray marble, fine to medium grained. Some graphite flakes and 2-3% pyrite. Duplicata TR17-02-10	2-5%	1.3	295	1.58

NO_analyse	Sample Id.	date	easting	northing	Trench	DESCRIPTION	GP % Visual estimate	Channel length (m)	orientation	Cg %
58463	TR17-02-12	17/08/21	459179.900	5053226.890	TR17-02	Quartzo feldspathic gneiss intermixed with carbonated zones. One graphite vein, about 4-5 mm wide.	5-10%	1.1	295	4.12
58464	TR17-02-13	17/08/21	459181.970	5053226.430	TR17-02	silicified marble? Hematite color at the surface, locally; 3-5% sulphides, 2-3% graphite, some jumbo flakes observed at 12.5 m.	2-3%	1	295	2.11
58465	TR17-02-14	17/08/21	459183.770	5053225.750	TR17-02	greenish gray, fine to medium grained qfgn with 1-2% Gp and 3-5% sulphides	1-2%	1	295	1.69
58466	TR17-02-15	17/08/21	459184.650	5053225.360	TR17-02	greenish gray, fine to medium grained qfgn (or silicified marble?) with 1-2% Gp and 2-4 % sulphides. Contain a 20 cm wide carbonated interval.	traces	1	295	1.09
58467	TR17-02-17	17/08/21	459186.000	5053224.910	TR17-02	greenish gray, fine to medium grained qfgn (or silicified marble?) with 1-2% Gp and 2-4 % sulphides	20-25%	1	295	0.898
58468	TR17-02-18	17/08/23	459188.740	5053223.650	TR17-02	fine to medium grained, greenish gray silicified marble with 3-4% sulphides	3-5	1	105	1.22
58469	TR17-02-19	17/08/23	459189.710	5053223.410	TR17-02	medium grained, gray marble with 5-10% diopside	5-7	1	105	0.847
58470	TR17-02-20	17/08/23	459190.670	5053223.160	TR17-02	Impure marble or carbonated rock with 15-20% diopside, 3-5% sulphides. Moderate reaction to HCl	3-5%	1	105	0.607
58471	TR17-02-21	17/08/23	459191.650	5053222.920	TR17-02	Fine to medium grained, slightly carbonated gray rock with 3-5% sulphides	3-5%	1	105	0.978
58472	TR17-02-22	17/08/23	459192.620	5053222.680	TR17-02	Fine to medium grained, slightly carbonated gray rock with 3-5% sulphides	3-5%	1	105	0.689
58473	TR17-02-23	17/08/23	459193.580	5053222.440	TR17-02	slightly carbonated gneiss with carbonated zone 15 cm wide (04080). Light gray in color. Carbonated layer is yellowish (sulphides?)	5	1	105	0.815
58474	TR17-02-24	17/08/23	459194.560	5053222.200	TR17-02	greenish gray, fined grained QFGN with a 20 cm wide carbonated zone from 0.6 to -.8 m.(196 sub v) with 3-5% sulphides	3-5	1	105	0.333
58475	TR17-02-25	17/08/23	459195.530	5053221.960	TR17-02	greenish gray, fine grained foliated (19670) QFGN with 5% sulphides. Reddish color at the surface for the first 20 cm (hematite alteration?).	2-4	1	105	0.957
58477	TR17-02-26	17/08/23	459196.450	5053221.730	TR17-02	greenish gray, fine grained foliated (190) QFGN with 5% sulphides. Carbonated horizon (10 cm wide).	1-2%	0.9	105	0.559
58478	TR17-03-1	17/08/24	459197.568	5053248.213	TR17-03	diopsidic marble (10-15% diopside)	traces	1	260	0.569
58479	TR17-03-2	17/08/24	459196.583	5053248.040	TR17-03	white to gray marble with 10-15% diopside	3-5%	1	260	1.26
58480	TR17-03-3	17/08/24	459195.598	5053247.866	TR17-03	Medium grained, orange-brown, crumbly marble	5-10%	1	260	2.02
58481	TR17-03-4	17/08/24	459194.613	5053247.692	TR17-03	Light gray, medium grained marble	3%	1	260	2.63
58482	TR17-03-5	17/08/26	459193.628	5053247.519	TR17-03	Light gray, medium grained marble with traces of orange, rounded mineral (garnet or vesuvianite).	3%	1	260	4.31
58483	TR17-03-6	17/08/26	459192.397	5053247.302	TR17-03	Very weathered, orange-brown and crumbly marble	15-25%	1.5	260	5.38
58484	TR17-03-7	17/08/26	459190.570	5053247.280	TR17-03	orange beige, weathered marble	15-25%	1.6	240	3.69
58485	TR17-03-8	17/08/26	459188.950	5053247.440	TR17-03	marble intermixed with paragneiss fragments	15-20%	1	272	4.83

NO_analyse	Sample Id.	date	easting	northing	Trench	DESCRIPTION	GP % Visual estimate	Channel length (m)	orientation	Cg %
58486	TR17-03-9	17/08/26	459187.440	5053246.980	TR17-03	Heavily mineralized marble (graphite veinlets also present).	30-35%	1	272	7.7
58487	TR17-03-10	17/08/26	459186.390	5053246.770	TR17-03	Heavily mineralized marble (graphite veinlets also present).	30-35%	1	272	8.69
58489	TR17-03-12	17/08/26	459185.330	5053247.060	TR17-03	Strongly weathered and crumbly, marble	5-10%	0.8	260	3.87
58490	TR17-03-13	17/08/26	459184.320	5053247.590	TR17-03	Strongly weathered and crumbly, marble	5%	0.8	270	3.96
58491	TR17-03-14	17/08/26	459184.510	5053249.100	TR17-03	Strongly weathered and crumbly, marble	5-15%	1	10	4.04
58492	TR17-03-15	17/08/26	459184.690	5053250.080	TR17-03	Strongly weathered and crumbly, marble. Gp in flakes and chunks.	15-25%	1	10	4.53
58493	TR17-03-16	17/08/26	459184.860	5053251.070	TR17-03	Beige marble moderately weathered and crumbly.	5-15%	1	10	7.26
58494	TR17-03-17	17/08/26	459185.030	5053252.050	TR17-03	Beige marble moderately weathered.	15-20%	1	10	6.73
58495	TR17-03-18	17/08/26	459185.030	5053253.040	TR17-03	Beige marble with a yellowish, powdered surface (due to sulphides?).	10-15%	1	350	9.31
58496	TR17-03-19	17/08/26	459184.480	5053253.690	TR17-03	Marble with a red (hematite?) and yellowish, powdered surface (due to sulphides).	20-25%	1	340	13.9
58497	TR17-03-20	17/08/26	459183.710	5053254.130	TR17-03	marble with dark green and beige pegmatite fragments (calc-silicates rocks?). Red and yellow alteration as TR17-03-19. Gp chunks.	5	1	330	14
58499	TR17-03-21	17/08/26	459183.180	5053255.060	TR17-03	Strongly weathered and crumbly, marble		1.15	330	18.2
58500	TR17-03-22	17/08/26	459177.872	5053255.424	TR17-03	Greenish gray , fine grained gneiss with minor carbonated zones (10-15 cm wide) and 1-2% Graphite flakes; 3-5% py/po. Higher graphite content in carbonated zones (5-8%).	1-2	1	275	0.888
30001	TR17-03-23	17/08/26	459176.876	5053255.511	TR17-03	Fine grained paragneiss with 5-10% phlogopite with minor rusty carbonated zone (10-15 cm wide). Graphite content is higher in these zones (5%).	1-2	1	275	0.869
30002	TR17-03-24	17/08/26	459175.880	5053255.598	TR17-03	Fine grained paragneiss with 5-10% phlogopite with minor rusty carbonated zone (10-15 cm wide). Graphite content is higher in these zones (5%).	1-2	1	275	0.338
30003	TR17-04-01	17/08/26	459233.137	5053325.321	TR17-04	SE end (20 cm) is composed of marble with 10-15% Gp. The remaining portion is a coarse grained, beige-white rock (skarn?) with 10% dark green crystals (diopside?). Traces of automorph Py and graphite which appears as isolated chunks or discontinuous veinlets.	10-15% in marble; 1-2% in	1	310	0.832
30004	TR17-04-02	17/08/26	459232.371	5053325.964	TR17-04	Skarn-like rock with carbonated (marble?) horizons. These carbonated horizons are rusty, very crumbly and contain 10-15% graphite.	10-15% in carb. Rock; traces in skarn	1	310	3.71
30005	TR17-04-03	17/08/26	459231.605	5053326.607	TR17-04	Paragneiss with phlogopite and minor carbonated horizons. Paragneiss contains 5-8% sulphides (up to 15%, locally). 10-15% graphite in carb. Horizons; 1-2% graphite in phlogopite-paragneiss.	10-15% in carb. Rock; 1-2% in paragneiss	1	310	1.98

NO_analyse	Sample Id.	date	easting	northing	Trench	DESCRIPTION	GP % Visual estimate	Channel length (m)	orientation	Cg %
30006	TR17-04-04	17/08/29	459230.839	5053327.250	TR17-04	Phlogopite bearing gneiss with carbonated horizon from 20 to 80 cm (northwestward). Graphite content = 10-15% in carb. Horizons and 1-2% in gneiss. From 80-100 cm (northwest end), gneiss contain light green mineral with orange/salmon feldspar (skarn?).	5-10	1	310	2.79
30007	TR17-04-05	17/08/29	459223.211	5053332.948	TR17-04	Dark green medium grained gneiss, massive, with 10% phlogopite and 3-8% sulphides		0.9	305	0.0734
30008	TR17-04-06	17/08/29	459222.474	5053333.464	TR17-04	Dark green medium grained gneiss, massive, with 10% phlogopite and 3-8% sulphides		0.9	305	0.0909
30009	TR17-04-07	17/08/29	459221.543	5053334.047	TR17-04	Medium to coarse grained phlogopite bearing gneiss, green and massive, locally rusty. 5-8% sulphides. Becomes finer grained at 1.1-1.3cm (northwest end).	traces-1%	1.3	300	0.182
30010	TR17-04-08	17/08/29	459220.547	5053334.622	TR17-04	Medium to coarse grained, quartz-rich gneiss, rusty and fractured. Contains 2-3 % micas (chlorite) and 3-5% sulphides	traces-1%	1	300	0.183
30012	TR17-04-09	17/08/29	459219.681	5053335.122	TR17-04	Coarse grained, bluish gray, quartzo-feldspathic gneiss with minor and local rusty zones. Graphite appears as isolated chunk or small discontinuous veinlets. 2-3% sulphides	1-2%	1	300	0.626
30013	TR17-04-10	17/08/29	459218.815	5053335.622	TR17-04	Quartzo-feldspathic gneiss with a carbonated zone from 0.6 - 1m (NW end). Carbonated zone is rusty (orange/brown/red in color) and contains local massive chunk of graphite (from 0.8 to 1 m). 1-2% Graphite, elsewhere.	1-2% up to 15% in carb. Zone	1	300	4.76
30014	TR17-04-11	17/08/29	459217.949	5053336.122	TR17-04	Fine to medium grained, paragneiss with brownish red carbonated zone (20 cm wide) that contains 10-15% graphite and 3-5% Py.	10-15% gp restricted to the carb. Zone	1	300	4.25
30015	TR17-04-12	17/08/29	459217.083	5053336.622	TR17-04	skarn-like rock with a carbonated zone from 0.7-1 m (NW end). Skarn is whitish and green in color with 0.5 cm size diopside. carbonated horizon is rusty and contain 10-15% graphite. Mm graphite vein next to carb zone.	10-15% (carb zone)	1	300	2.25
30016	TR17-04-13	17/08/29	459216.217	5053337.122	TR17-04	fine grained, green quartzo-feldspathic gneiss with 10% phlogopite.	traces-1%	1	300	0.366
30017	TR17-04-14	17/08/29	459215.351	5053337.622	TR17-04	fine grained, green quartzo-feldspathic gneiss with 10% phlogopite. Contains minor brownish-red carbonated zones with white micas, 3-5% Py and 2-3% graphite		1	300	1.46
30018	TR17-04-15	17/08/29	459214.485	5053338.122	TR17-04	medium grained, greenish gray quartzo-feldspathic gneiss with minor carbonated zones (3-4 cm wide) forming about 10-15% of the rock. 3-5% sulphides.	1-2%	1	300	0.701
30019	TR17-04-16	17/08/29	459213.618	5053338.622	TR17-04	Coarse grained, quartzo-feldspathic gneiss (white and green in color), partly rusty from 0-40 cm (SE end). Contains sphene (3-5%).		1	300	1.19
30020	TR17-04-17	17/08/29	459212.623	5053339.197	TR17-04	fine to coarse grained gneiss with 5-7% sulphides, 10-15% phlogopite and 3-5% graphite	3-5%	1.3	300	1.94

APPENDIX 3

2017-2018 Diamond Drilling Program

Drill Logs

Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date :
CKR Carbon Corp.		CK17-01			start : 2017-08-08
Easting: 459300		Total Length:			end: 2017-08-14
Northing: 5053416		160.9 m			
UTM Nad 1983, Zone 18		Azimuth: 110°	Dip: 45°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	4	OB				Overburden
4	16	QFGN		traces up to 2%	Py veinlets (3-5%)	Broken and rusty quartzo feldspathic gneiss with weathered, centimetric carbonated zones. These zones are dissovled and do not necesseraly react with acid. Generally chloritized. Traces to 1% of pale orange rounded mineral (vesuvianite?). Medium to coarsrse grained. From 11 to 12 m, becomes foliated with thin layer of orange salmon qfgn.
16	25.9	QFGN	MBR	traces up to 2%	disseminated from 3 to 5%	QFGN with more frequent carbonated zones. From 16.7 to 17.3: a pink salmon coarse grained feldspar with white pegmatittic calcite.
25.9	27.3	QFGN	MBR	traces		fine to medium grained QFGN with about 50% of carbonated zones (chloritized marble).From 26.9 to 27.2: white coarse grained calcite zone. Some carbonate centimetric carbonate vein 60° to core axis.

27.3	34	MBR		2-3% Gp	1-2% Py	Granoblastic, grey to slightly greenish (chloritized?) marble, medium grained. 1% orange, rounded mineral (vesuvianite?).
34	44	MBR	QFGN	traces	up to 5-10% in veinlets. or chunks.	Fine to medium grey QFGN intermixed with green, medium grained carbonated zones. From 37 to 37.5 m : strongly foliated and stretched subparallel to core axis. From 50 to 51.1 m small grained (aphanitic) dark layer (diabase?) with py in veinlets.
44	53	MGN	MBR	traces	3-5% py and po	Dark green quartzo-feldspathic gneiss with more mafic horizon. Generally fine grained . From 44.9 to 45.1 m : carbonated zone subparallel to core axis (coarse grained calcite). Interlayered with decimetric medium grained marble (from 49.4 to 49.7 m)
53	56.2	MBR		3-5%		Granoblastic, medium grained gray marble with graphite flakes.
56.2	58.8	MBR	DFZ	from traces to 50%		Brecciated marble with very fine graphite (filling fractures). Broken in small pieces from 58 to 58.5. Almost pure calcite vein with graphite (mostly in thin layers) from 58 to 58.7 m; sub parallel to c.a.

58.8	81.5	MBR	QFGN	2-4%, up to 10% for intervals with Gp veinlets.	pyrite up to 2% mostly disseminated	Granoblastic, medium grained gray marble with traces of micas and flaky graphite (from 2-4%). Some graphite blobs and veins also observed (from 63-64 m). Minor gneiss interval (generally greenish and fine grained, moderately developed foliation. These minor decimetric gneissic layers appears from 70 m downward. Graphite veinlets are usually seen in these layers. subparallel py veinlets may also be present. Darker rounded spots (about 3-6 cm diameter) in marble (xenoliths?)
81.5	87.4	PHGN	QFGN	large GP flakes (4.5 mm). A vein or graphite chunks (3-4 cm wide) at 83.5 m. Flakes are mm size but can reach -4-5 mm, locally.	up to 10%, locally (84.9 - 85.1 m). Flakes are mm size but can reach -4-5 mm, locally.	Mostly phlogopite paragneiss (83.6 - 87.4 m) followed by a coarse grained QFGN layer with higher sulphides (py) content. Includes some highly mineralized Gp zones (82.5 - 83.2 m = 15-20% Gp) nearby decimetric zones of marble (or carbonated zone). Some epidote observed locally. From 81.5 to 81.9 m phlogopite gneiss (10-15% phlogopite), fine to medium grained and from 81.9 to 82.1 m: white, quartz-rich zone, coarse grained, with about 1% large graphite flakes. At 84.9 m : mm size graphite AND pyrite veins parallel to each other. From 84.9 to 86.2 m coarsened grained phlogopite bearing gneiss interlayered with quartzofeldspathic gneiss. From 86.2 to 87.4 m: quartzofeldspathic gneiss becomes interlayered with carbonated horizons.
87.4	99	MBR		2-5% from 87.4 to 94; 15-20% from 94 to 99. Flakes are mm size but can reach -4-5 mm, locally.	2-3%	Grey, granoblastic marble with about 10% of dark minerals (diopside, biotite?) + traces of orange, rounded mineral (vesuvianite?). At 94 m, Marble becomes slightly more greenish in color and much higher in graphite content (higher than 20% at few places).

99	103.8	PQFGN	PHGN	highly variable from 2-10% in PHGN to higher than 20% in QFGN	5 Py in veinlets %	From 100 -102 m :Pegmatitic phlogopite-bearing quartzo-feldspathic gneiss with phlogopite concentrated in beds or thin layers. Graphite is associated with phlogopite flakes or appear as small contorted mm-sized veinlets. From 99-100 m and from 102 - 103.8 m, fine grained, greenish gray quartzo-feldspathic gneiss, highly mineralized in graphite (upper interval = 15-20% Gp) with associated mm size pyrite veinlets (mostly concentrated over 101.9-102 m).
103.8	105.3	MBR		up to 25-30%		Highbly mineralized marble horizon. Black in color with a few light gray spots. Quartzo-feldspathic horizon still highly mineralized in graphite.
105.3	107.5	CSR	MBR			medium to coarse grained silicified rock. Light greenish (epidote color) and orange pink (feldspar), decimetric carbonated horizons from 105 to 106 m. Traces of graphite and 3-5% pyrite. Sphene crystals at 106 m. Pegmatitic horizon from 107- 107.5 m with diopside, sphene crystals (up to 2 cm in size).
107	107.5	CSR				pegmatitic calc-silicate horizon with 2-3 cm size diopside and titanite automorph crystals. No Hcl reaction, completely silicified
143	160.9	PHGN				Fine to medium grained phlogopite bearing gneiss (up to 30-50% phlogopite) with several pegmatitic centimetric sweats. Color is mostly purplish (phlogopite bands) with minor greenish zones (chloritization of the rock).

Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date :
CKR Carbon Corp.		CK17-02			start : 2017-08-15
Easting: 459361		Total Length:			end: 2017-08-23
Northing: 5053521		143 m			
UTM Nad 1983, Zone 18		Azimuth: 300°	Dip: 45°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	2.5	OB				Overburden
2.5	9.5	QFGN	MBR	traces up to 1% locally.	traces, up to 2%.	Medium to coarse grained quartzo feldspathic gneiss intercalated with carbonated zones. From 2.9 to 3.9 m : automorph diopside crystals with traces of 1 mm rounded mineral orange in color. Carbonated zones are variable in widths (from 2 to 100 cm) and are medium gray to light gray with about 20% diopside olive green in color. Some large graphite flakes are observed within these zones (traces up to 1%).
9.5	12.8	CSR		traces up to 3%, At 11.8 m : graphite content sharply increases to >20%.	up to 3-8%, locally (from 10 to 12.8m).	dark green fine grained interval (from 9.5 - 10.4 m), followed by a decimetric (20 cm) pegmatite layer from 10.5 - 10.7 m with phlogopite, po and graphite. From 11 - 11.8 m coarse grained QFGN, greenish white in color. Gp chunks within pegmatite layer. 1 cm Po chunks within pegmatite layer, associated with phlogopite

12.8	19.2	MBR	QFGN			Diopsidic marble, medium grained with a granoblastic texture. Light gray to medium gray, depending on the graphite content. Centimetric zones of QFGN with orange-salmon feldspar zones. from 5-10 Gp variations in grain size: about 1 mm if Gp content is low. Smaller grain size when Gp content is high.
19.2	30.1	CSR	PEG	. Higher than 20% from 22 - 24.5 m and 15-20% from 23.8 - 30.1 m	up to 5% Py	Greenish gray, small to medium grained CSR. Black in color from 22 -24.5 m. From 21.1 - 21.8 pegmatite zone. From 23.8 - 30.1 m : fine to medium grained QFGN (or CSR?) with 5-15 % sulphides: Py (5-10%) and Po (2-3%). Very large flakes (3-4 mm) from 21.1 - 21.7 m
30.1	49.9	MBR	QFGN		Py-Po. Po chunks at 36.4 m.	Diopsidic marble (or CSR), medium grained, light grey to greenish grey. From 36.4 - 46.1 m : minor decimetric QFGN zones. From 38.7 - 39.25 m : coarse grained zones with diopside and sphene. Small discontinuous Gp veins (contorted?) from 38.75 =39.25 m in the coarse grained zone.
				1-2%.		
49.9	52.5	PHGN			at 50.65 m: Po chunk (1 cm)	Medium to coarse grained phlogopite bearing quartzo-feldspathic gneiss (phlogopite: 25%).

52.5	56.65	DFZ		> 10% Cg	10-15% Py and Po	Strongly foliated gneiss with stretched phlogopite bands. Increasing content of sulphides and graphite.
56.65	62.4	QFGN	PHGN	1-2% Cg, except from 61.6 to 62.2 m : 5-10% Cg	2-3% disseminated Py	Phlogopite gneiss interlayered with minor decimetric carbonated zones from 59.6 to 62.4 m. Pegmatite from 56.65 to 57.38 m: quartz and feldspar with some elongated biotite (1-4 cm). Phlogopite gneiss is strongly foliated and carbonated zones are parallel to foliation (60 to c.a.). From 61.6 to 62.2 m: mafic dark green layer with increasing content of graphite
62.4	67.3	MBR	MGN	1-2% in marble; 15-20 % in mafic gneiss		Granoblastic, medium grained gray marble with traces of orange, rounded mineral (vesuvianite?) and flaky graphite (from 1-2%) alternating with dark green and fine grained gneiss. From 66.3 to 66.8 m: mafic gneiss with high Gp content : 15-20% and sulphides (5-10%).
67.3	69.4	MGN	PHGN	from 68.4-69 m : 15% Gp concentrated in bands.	up to 10%, locally (84.9 - 85.1 m).	Coarsed grained, phlogopite gneiss From 67.5 to 68.05 m: fined grained, mafic gneiss. Withing the coarse grained zone, graphite flakes are mm size but can reach -4-5 mm, locally.
69.4	71.15	QTZ				Impure quartzite, white in color. Contains green diopside (?) 0.5 -1 m in diameter and traces of pink garnet.

71.15	123.2	GTGN	QTZ	1-2% up to 5-7% diss py.	Light greenish gray, black and purplish coarse grained, garnet gneiss alternating with impure blue-gray quartzite zones. Both gneiss and quartzite contain garnet (about 10% in gneiss and 2-3% in quartzite). Garnet is pink purplish and 3-5 mm in size. can form clusters in gneiss. Dark green minerals form about 15-20% of gneiss and 5% in quartzite. At 122.5 m a 10 cm zone of pegmatitic QFGN rock with graphite distributed in small disc. veinlets. Flakes can be up to 0.5 cm in size.
				traces up to 2%	
123.2	127	PHGN	MGN	Po in small mm size veinlets in mafic horizon	Generally coarse grained phlogopite gneiss with a highly mineralized mafic zone from 124.4 - 125.4 m. Mafic mineralized zone is well defined with sharp contacts. Graphite content dramatically change as we pass this zone. PHGN is coarse grained (0.5 cm) almost pegmatitic, porphyroblastic, not very well banded except from 123.2 - 123.5 where rock is highly stretched. Graphite flakes also large about 1%). Mafic zone is fine grained and magnetic (po mm size veinlets about 70 to c.a.). QFGN horizon with epidote color from 125.4 to 126 m (adjacent to lower end of mineralized mafic zone).
				20-25 in MGN; 1-2 % in PHGN	
127	131.5	GTGN	QFGN	2-3% diss py. Big chunk at 130.4 m	Garnet bearing med. to coarse grained gneiss alternating with quartz-rich bands up to .7 m in width (from 129.2 to 129.7 m).. These qtz rich bands contain yellowish feldspar and dark green min. forming well defined banding. Garnet paragneiss contains up to 10-15% pink purplish garnet that can be grouped in cluster of 1 cm in size. Commonly rimmed by phlogopite. Graphite content tends to increase in garnet paragneiss.
				1-2%	
131.5	134.5	QFGN	QTZ	diss. Py and po (3-5%)	Fine to medium grained QFGN, dark green to blue gray in color. Moderately developed foliation, subvertical to c.a. Quartzite horizon from 131.5 to 132.15 m. QFGN contains 15-20% dark green min. chloritized px?

134.5	143	QTZ	PHGN	traces of Py/Po, up to 2-3%; associated with phlogopite bands. Slightly magnetic. light gray to gray-Blue coarse grained quartzite with minor cm bands of phlogopite bearing gneiss (30-50% brown purplish phlogopite forming subv banding. About 10-15 % of accessory minerals (dark green/purplish: diopside and phlogopite?). traces
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Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date : start : 2017-08-24 end: 2017-08-29
CKR Carbon Corp.		CK17-03			
Easting:	459306	Total Length:			
Northing:	5053667	218.05 m			
UTM Nad 1983, Zone 18		Azimuth: 104°	Dip: 45°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological description
0	2	OB				Overburden
2	7.5	QFGN	QTZ	traces up to 1%	5% slightly magnetic, locally.	Medium grained quartzo feldspathic gneiss alternating with quartzite. Gneiss is well banded with 5-10% phlogopite. Quartzite is white from 2 to 4.4 m and become blue gray from 5.7 to 6.5 m
7.5	8.4	CSR		traces	3-4% po	Coarse grained white greenish rock with large (2-2.5 cm) prismatic crystals (scapolite?)
8.4	15.3	CSR	MGN	traces up to 2% in CSR, higher than 25% in MGN (almost massive from 15 to 15.6 m)	disseminated from 3 to 5%	Fine to coarse grained, white, greenish rock with occasional phlogopite concentrated in bands. Coarse grained rock contain scapolite and graphite content is generally up to 2% except from 10.5-11 m where graphite content is 5% with also higher sulphides content (mostly pyrite)

15.3	35.4	GTGN		3-8% generally large flake size (2-3 mm), up to 1 cm in box 2 photo !	5-10% in small veinlets or disseminated at 18.6 m : 4-5 mm size vein with cubic crystals (Py).	fine to coarse grained, purplish gray garnet bearing gneiss. Garnet gneiss contains a quartz-rich zone (from 25.5 to 30.3 m). Garnet gneiss contains phlogopite (20-30%) and phlogopite is commonly distributed around garnet crystals (garnet is the core?). Banding more or less developed. Up to 10% Garnet with crystals up to 0.5 cm in size, yellowish to greenish powder on the rock (alteration?). Quartz-rich horizon contains 2-5% pink garnet usually surrounded by chlorite.
35.4	57.9	MBR	PEG	variable from 1-2% to 4-5% (near contacts with gneiss?).	1-2% Py	Granoblastic grey , medium grained marble with 5% green rounded mineral (diopside?). From 57 to 58 m, becomes slightly greenish (chloritized?) in color and there with minor pegmatitic horizons (from 6 to 10 cm in width). These pegmatitic horizons contains small discontinuous graphite veinlets and gp content consequently increases (5-10%).
57.9	58.2	MGN	carb	10-15% gp	10% sulphides Py, po, slightly magnetic	Fine to medium grained MGN with well developed banding alternating with decimetric carbonated horizons (from 20 to 30 cm in width).
58.2	70...	PHGN	PEG		5-10% sulphides in veinlets or disseminated up to 15% in pegmatites	blue-green greyish, fine to medium grained phlogopite gneiss alternating with quartz-rich bands and minor pegmatitic horizons (pegmatites from 61.25-61.5 m; 64.4-65 m). Pegmatite from 61.25 and 61.5 is composed of large (2cm) feldspar or scapolite crystals with sulphides veinlets in network between the crystals. Other pegmatites are composed of quartz, feldspar and phlogopite.

70	80	QFGN	traces	10-15% mostly py disseminated or in veinlets	Fine grained greenish gray QFGN with local quartz-rich, coarser grained zones (77-77.3 m). Quartz is blue. Yellowish dust at the surface (sillimanite or sericite alteration?). Carb-chl vein (0.5 cm wide) at 79.5 m.
80	87	GTGN	traces nearby garnet clusters	10-15, up to 20% locally (po, strongly magnetic).	Fine to coarse grained garnet bearing gneiss. Garnet (2-5%) is usually grouped as bands and clusters and is associated with phlogopite. Color vary from orange-pink to purplish pink. Quartz grain are blue.
87	90.4	PHGN	traces	5-10 sulphide (py, Po), magnetic%	medium to coarse grained phlogopite gneiss with commonly well developed banding. At 87.4 m : a 5 cm wide carbonate vein sub vertical to c.a.
90.4	94.2	PEG		2-3% usually in veinlets . At 92.4 : 3-4 mm size py-carb vein	salmon orange and greenish gray pegmatite : feldspar are orange salmon, quartz is gray (smoky quartz) and some biotite crystals up to 4-5 cm long. Other feldspar are elongated and greenish gray. From 93.1 the pegmatite becomes 100% greenish gray (chloritized?).

94.2	103.6	PHGN	CARB	traces up to 1% in carb. Layer. From 98.2- 98.8: 15% Gp in veinlets.	5-10% Po and Py mostly disseminated; up to 15% (in chunks) locally (103.35 m)	Mostly phlogopite bearing quartzo-feldsapthic gneiss with interlayered carbonated horizon from 96.3-98 m. PHGN becomes heavily chloritized from 95 to 96.3 m and turns into a green color. From 98 -103.6 m, phlogopite gneiss contains small centimetric fine grained, dark green horizons (mafic gneiss?). From 98.2- 98.8 m: 15% Gp in veinlets and flakes hosted in fine grained dark green gneiss
103.6	108.4	QFGN	PEG		1% Po, locally in pegmatite; 5-8% in gneiss (po and py). Big massive chunk (Po) at 107.95 m	Fine to medium grained green QFGN (?) chloritized?. Some sections are not heavily weathered and consists of phlogopite QFGN. White pegmatite is present from 103.6 to 104.6 and from 106.85 to 107.5 m Pegmatite is composed of quartz and feldspar wit 3-5% large phlogopite cristals ((up to 3 cm in size)
108.4	119	MBR	PEG	1-2% up to 5% locally, massive chunk at 112.3 m.	2-3%, disseminated, except at 116.9m (big massive Po chunk).	Light gray, medium grained marble with minor centimetric pegmatite (CSR?). Light green color at 116.8-117.05m and slightly orange from 118.5 to 119 m.
119	126.9	QFGN	PEG		1-2% up to 5-7% diss py.	Massive, quartz rich QFGN, light greenish gray (chloritized). From 120.9 to 126.9 : white pegmatite (quartz and feldspar) with large phlogopite crystals
126.9	134.3	MBR	MGN	traces of Gp in reactive marble	1-2% diss sulphides in marble; 5-8% Po, Py in QFGN	Fine to medium grained impure marble alternating with QFGN (or silicified marble?). Marble with strong rx to HCl is salmon orange and light green in color. Contains about 20% rounded greenish crystals (diopside?). QFGN is fine grained, gray in color and contains quartz-feldspar, diopside and traces of orange rounded mineral.

134.3	163	MBR	CSR	1-3% Graphite; 5-10% from 142 to 143 m.	3-5% PY, po	fine to medium grained marble alternating with decimetric zones of coarse (pegmatitic) CSR rock. Fine grained marble contains 20-25% diopside. CSR contains scapolite (3-4 cm large), sphene and diopside (1-2 cm large) and may contain chunks of po. Phlogopite bearing gneiss from 140.9 to 142 m. From 159 - 159.8 m pegmatitic CSR.
160	163	MBR	QFGN	traces-1%, some chunks locally	3-5% (po and py)	fine to medium grained, gray rock: Carbonated zone (weak to moderate reaction to HCl). Partly silicified marble? Minor centimetric layers (160 - 160.1 m) of coarse grained rock (qtz feldspathic gneiss with 5-10% phlogopite).
163	167.7	PHGN	QFGN	traces	3-5% po slightly magnetic	fine grained greenish gray, massive gneiss with phlogopite (5-15%) and disseminated sulphides (py and Po). Phlogopite-bearing gneiss is alternating with coarse grained quartz-rich (QFGN) rock with 10-15% dark green crystals (diopside?). QFGN contains 1% sulphides (py) and traces of graphite. The whole intersection looks generally chloritized (green color).
167.7	180.4	MGN	CSR	1-2% graphite flakes in CSR	1 py% in carbonated zones. 10-12% sulphides (mostly Po) in fine grained green gneiss.	Fine grained, dark green, massive gneiss with several centimetric carbonated zones alternating with coarse grained (pegmatitic) rock containing clusters of prismatic diopside and possibly sphene + scapolite. Carbonated zones are dotted with 15-20% 2-3 mm size diopside rounded crystals. From 179.4 - 179.8 gneiss becomes fine grained and light greenish gray (silicified?) and is interlayered with 2-3 cm of pegmatitic veins. Minerals are stretched.

180.4	191	PHGN	MGN	traces (large flakes) in both PHGN and MGN	strongly magnetic in both PHGN and MGN (Po, Py).	Coarse grained phlogopite gneiss generally well banded alternating with fine grained massive gneiss, dark green in color. Phlogopite bearing gneiss is composed of quartz-feldspar-phlogopite and is purplish and blue gray in color.
191	198	PHGN	CSR		Fine to medium grained	Fine grained, dark green, massive phlogopite gneiss, usually well banded with several decimetric carbonated zones alternating with coarse grained (pegmatitic) rock containing clusters of prismatic diopside and possibly sphene + scapolite. Carbonated zones are dotted with 15-20% 2-3 mm size diopside rounded crystals. From 197.1 to 198: carbonated layer with increasing GP content.
198	202.8	MGN		25-30% Gp; From 199-200 m : 10-15% Graphite	3-5% py; From 199-200 m: 3-5% sulphides (disseminated and in veinlets)	highly mineralized green gneiss (Gp from 20-30%)
202.8	211.4	PHGN	CSR	1-2%	2-4% Py/Po; disseminated, in veinlets (chunks of pyrite).	Phlogopite bearing gneiss, interlayered with small zones (10-20 cm) of coarse grained CSR rocks (diopside crystals = 1 cm) with phlogopite. From 208-208.4 m : marble interval
211.4	218.05	MBR		traces	1-2% pyrite	Medium grained, greenish gray to gray marble with minor coarse grained calc-silicate horizons (213.6 -213.7 m)

Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date :
CKR Carbon Corp.		CK17-04			start : 2017-08-30
Easting: 459426		Total Length:			end: 2017-09-05
Northing: 5053788		221 m			
UTM Nad 1983, Zone 18		Azimuth: 322°	Dip: 45°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	4	OB				Overburden
4	13.4	MBR		10-15%		Highly mineralized marble. Heavily weathered and broked from 4-6 m. at 6.2 m : calcite crystals 1 cm large forming band or vein 2-3 cm wide. Green powderish alteration (chlorite?) large graphite flakes and chunks (10%).
13.4	22.5	CSR		20-25%	3-4% po	Dark greenish gray rock with 5-7% sulphides (mostly pyrite), can reach 10-15% locally. Graphite content is about 10-15% with higher concentrations (from 16.5-18 m and from 22 - 22.5 m). Phlogopite rich band from 13.5 - 14 m. From 15.5 to 16.5m: minor centimetric (4-6 cm) pegmatitic CSR. Pyrite chunk at 16.4 m.
22.5	28.1	PHGN		traces	disseminated from 3 to 5%	Purplish and greenish gray phlogopite quartzofeldspathic gneiss, fine to medium grained with local pegmatitic zones (3-10 cm wide). Well developed banding, locally (26-26.5 m).

28.1	56	GTGN	QTZ	from traces up to 4-5% if associated with sulphides.	5-10% in small veinlets or disseminated at 18.6 m : 4-5 mm size vein with cubic crystals (Py).	Garnet bearing coarse grained quartzo feldspathic paragneiss with minor massive mafic gneiss zones, usually chloritized. Garnet is purplish pink and in variable proportions from 5% up to 20-25% locally. Garnets tend to form clusters with surrounding phlogopite. Sizes of garnet crystals is from few mm up to 4 cm observed locally. In some sections phlogopite-garnet zones are associated with sulphide (py) and graphite that are intermixed (ex. from 41.8 -42.3 m). From 43.7 - 44 m : quartzite with 2-5% green mimerals and traces of large graphite flakes (up to 1 cm locally). From 50.5 -51 m : fine grained brownish gray zone 35-45 % phlogopite with disseminated PY. No graphite in this interval. From 52.8 - 53 m: orange beige and white pegmatite
56	60	PHGN		2-3% up to more than 25% in greenish horizons	3-5% sulphides (py po)	fine to medium grained purplish gray phlogopite gneiss. Generally massive with no banding. Highly mineralized from 58.2 to 59.4 m. Highly chloritized zone from 59.4 to 59.8 m.
60	63.8	PHGN	PEG	traces	3-6% (py, po)	Fine grained phlogopite bearing gneiss alternating with decimetric coarse grained quartz-rich horizons. Phlogopite gneiss is purplish and blue gray in color with (15-25% Phlogopite and 3-6% sulphides (py, po). Quartz- rich bands contain phlogopite clusters with 5-10% sulphides in chunks (py, po) and some graphite. Some pegmatitic horizons contain orange salmon feldspar (at 62.4 and 63.7 m).

63.8	68.7	MBR	PHGN	traces up to 1% in PHGN; higher than 20% in dark greenish MGN.	5-10% sulphides in veinlets or disseminated up to 15% in pegmatites	Medium grained, grey marble with flakky graphite. Highly mineralized >20% Gp from 65.6 to 66. m and from 67.9 to 68.65 m. PHGN from 66.1 to 67.3 m: fined grained purplish and gray (10-15%) phlogopite with pyrrhotite and pyrite (up to 30% from 66.4 - 66.7 m). highly mineralized intervals are usually greenish black and slightly carbonated (67.9-68.65 m interval) and are associated with some pyrite but no Po (not magnetic).
68.7	74.5	PHGN		traces up to higher than 25% in highly mineralized intervals.	2-3 disseminated Py and Po%	coarse grained phlogopite bearing gneiss, light gray in color with phlogopite porphyroblasts forming elongated cluster. Highly mineralized intervals from 68.95 to 69.5 m and from 72.15 to 72.5 m. highly mineralized zones associated with phlogopite, py and po.
74.5	79.6	PHGN		15-20% in marble; traces in PHGN. Traces up to 3-4% in coarse grained zone (from 77.15 - 77.6 m).		From 74.5 to 76 : highly mineralized marble: dark gray in color with 3-5 % pyrite. From 76 - 79.6 m : phlogopite bearing gneiss ; generally fine to medium grained with some centimetric coarse grained zones. Purplish and blue gray in color; Graphite flakes in higher concentrations within coarse grained zone (which also contain 5-8% Po).
79.6	90	QTZ	MGN	traces	2-3% Py in quartzite, 4-8% Po and Py in mafic gneiss.	Blue gray quartzite with phlogopite rich bands and a mafic gneiss horizon from 84 to 85 m. Po and Py: disseminated and in mm size veinlets in mafic gneiss horizon. Quartzite contains 3-7% accessory minerals (greenish feldspar, phlogopite and chloritized diopside) and 2-3% Py in fractures (along with chlorite).
90	98	QTZ	PHGN	traces		white quartzite with 5-10% accessory minerals (feldspar, chlorite, phlogopite, sulphides). Usually stretched minerals. Some minor bands of phlogoptie rich bands (1 cm to 7 cm wide). Forming less than 5% of the rock.

98	103.3	DFZ	MGN	traces up to 15-20%	2-3% up to massive (Po / Py) from 100.5 to 100.6 m).	fine grained dark green rock with minor centimetric to decimetric quartzo-feldspathic layers f(carbonated locally?) with epidote, augen quartz , orange salmon feldspar stretched minerals forming well defined banding. Sulphides veins at 100.5 and 100.8 m (Po intermixed with quartz and 0.5 cm py vein 25-35° to c.a. at 100.8m). At 102.1 m: (0.5 cm py, 30-45° to c.a.), highly mineralized gp zones from 98-99.1 m (on a discontinuous manner) and from 99.4 to 100.1 (fairly continuous). Interlayered with medium to coarse grained phlogopite gneiss.
103.3	124	GTGN	QTZ	1-8% flakes can be large (according to gneiss grain size).	3-8% Py with some Po (slightly magnetic).	Ligth gray and pinkish garnet bearing gneiss with 5-10% pink garnet, 60% quartz, 20% feldspar 10% phlogopite around garnet crystals. Some minor decimetric quartz-rich zones: 108.9-109.1 m. Sulphide (Po Py chunks), locally. Mostly fine to medium grained with local coarse (or pegmatitic zones). Garnet a few mm size up to 1 cm. From 123.5 - 124 m : high proportions of garnet 30-35% of the rock.
124	127	PHGN	QTZ	traces		fine grained purplish gray phlogopite bearing gneiss. Massive (not foliated). Slightly to strongly magnetic. Coarse grained zone from 126.1 to 126.2 m with 0.5 cm phlogopite crystals associated with Py. Quartz rich layer from 126.4 to 127m : Traces of graphite and 1-3% garnet with 5-10% light green feldspar.
127	143	GTGN	QTZ	Mostly 1-2% up to 5% locally	Sulphides (mostly po with some py). 2-5% up to 10% locally (po chunks)	Mostly fine to medium grained garnet bearing paragneiss (from 2-3% up to 15% pink purplish garnet). Light gray and pink in color. Some coarser grained centimetric zones (about 10-15% of the rock). Sulphide content higher from 134-135 m. Concentrated in bands in coarser grained zones. minor quartz rich zones from 140.3-140.5 m and orange salmon feldspar from 139.4 - 139.6 m.

143	156	GTGN	PHGN		traces -3% up to 15-20%(mainly Po from 152 to 156 m) with 5-7 mm size Po veinlets and chunks.	Chloritized garnet bearing paragneiss intermixed with quartzite-rich bands (143.2-145.9 m; 146.1-146.9; 148.1-149.1 m). Garnet is commonly forming bands and can reach 30-35% in proportion (from 147.4 to 147.8 m). From 148 - 156 m: become purplish -green in color and garnet are more seldom. from 145 -146.9 blue gray and pinkish quartzite with centimetric bands of GTGN. Well defined banding locally.
156	159	MGN		from 156.4 m: 5-10% gp.	10-15% sulphides: Po chunks and veinlets + disseminated Py	fine to medium grained dark green gneiss with slightly carbonated horizons. 2 cm wide calcite/graphite/pyrite vein at 158-158-02 m.
159	171.8	MBR		3-8% from 161.6-170. less (1-2 % from 168.2-169 m);	Py chunks and veins from 159 - 161.4 m. Py and po	Mostly heavily mineralized marble with graphite concentrations higher from 169.5 to 173 m. From 164.5 : centimetric zones of large size graphite flakes (0.5 cm) (like a vein or band 5 cm large)along with orange salmon feldspar.
171.8	175.6	PHGN		2-3%	5-7% Py/Po	Fine to medium grained phlogopite gneiss purplish and light gray in color. Strongly foliated from 174-174.7 m, Phlogopite in proportions 15-25%. From 164.5 m : centimetric zones with large graphite flakes .
175.6	182.8	MBR	MGN	> 25%	mostly po in vein and chunks from 179.5 - 180.6 m (up to 50%).	dark gray marble highly mineralized in graphite, interlayered with mafic and finer grained gneiss with about 20% of graphite. Pegmatitic horizon with quartz and feldspath from 176.2 - 177.3 m. From 179.5 - 180.6 m : sulphides (mostly Po) associated with chlorite (?)
182.8	187.3	PHGN		2-10% Gp	5-10% locally	Fine to medium grained phlogopite and quartz feldspathic gneiss purplish and light gray in color. Finely foliated locally. Phlogopite from 5 -15 %. Several Po mm size veinlets (mostly at 30-45° to c.a).

187.3	192.3	MBR		10-20%	10% Po	Dark gray marble highly mineralized in graphite. Fairly high content of sulphides associated with graphite.
192.3	202	PHGN	MBR	traces 1% in PHGN; 3-6% in marble	3-8% in marble, 3-5% in phgn (mostly po). Py from 200 to 202 m.	Phlogopite bearing quartzo feldpathic gneiss interlayered with a marble interval from 193.7 - 195.8 m. PHGN is fine grained from 192.3 - 193.7 m and coarse grained from 196 to 202 m. Traces of pink garnet from 199.9 to 202.3 m. Mostly purplish and light gray, except from 198.1 -200.5 m where gneiss turns into a green color (chloritized?). Marble is greenish gray, medium grained.
202	203.8	DFZ				Quartz-rich bands with stretched phlogopite crystals forming bands. Stretched biotite and chlorite in proportions of 5-10%. Augen quartz from 203.35 to 203.6 m.
203.8	208.6	QTZ	PHGN			Impure white quartzite with 10-15% phlogopite and chlorite (chloritized diopside?). Intermixed with decimetric (10-20 cm) layers of fine grained, massive QFGN or phlogopite rich-QFGN (30% phlogopite). Quartzite turns into a blueish gray color from 219.9 - 221 m
208.6	211.3	QFGN			traces -1%, up to 3-5% po from 210.5-211.5 m	Fine grained greenish gray qfgn with centimetric qtz rich bands (3-5 cm wide). Mostly massive. 2-3% phlogopite
211.3	221	QTZ	QFGN			Impure white quartzite with 5-15% phlogopite and chlorite (chloritized diopside). Phlogopite bands from 217.3 - 218 m. Intermixed with decimetric (30-40 cm) layers of fine grained, massive QFGN. Quartzite turns into a blueish gray color from 219.9 - 221 m.

Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date : start : 2017-09-06 end: 2017-09-11
CKR Carbon Corp.		CK17-05			
Easting:	459151	Total Length:			
Northing:	5053253	194 m			
UTM Nad 1983, Zone 18		Azimuth: 104°	Dip: 67°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	1	OB				Overburden
1	3	QTZ				White quartzite with 5-10% accessory stretched minerals (chlorite, traces of sulphides).
3	11.3	QFGN				Medium to coarse grained QFGN with occasional phlogopite. Fine grained and greenish-blue with 5-10 sulphides (mostly Po) from 3 to 5.7 m. Coarser grained and purplish /blueish gray from 5.7 to 11.3. m with 3-5% sulphides (mostly Po).
11.3	21.4	QTZ	MGN			Bleuish gray quartzite intermixed with fine grained mafic gneiss (from 15.5 15.7 m and from 19.1 to 21.4 m). Quartzite is coarse grained and contains about 5% of accessory minerals (chlorite, light green feldspar, traces of sulphides). Mafic gneiss is fine grained, dark green in color with px and traces of phlogopite, 1 % sulphides in mafic gneiss.

21.4	24.6	PHGN	QTZ	traces of flaky graphite in PHGN	2-3% py in PHGN (Non magnetic).	Phlogopite bearing quartz-feldspathic gneiss interlayered with impure quartzite intervals from 22.3 - 23.4 m and from 23.8 to 24.6 m. PHGN is medium grained and contains 10-15% phlogopite. Quartzite is white (22-23 m) to gray-blue (23-24 m). And contains 10-15% accessory minerals (chlorite, phlogopite) with traces of graphite and sulphides.
24.6	27.9	MGN	PEG		traces	Fine grained greenish gray qfgn. Mostly massive. 2-3% phlogopite. Include a decimetric horizon of pegmatite rock from 25.7 to 26 m. QFGN contains about 10% phlogopite. Pegmatite is composed of light green feldspar (60%) with smokey quartz (30%) and 2-5% dark green mineral (chloritized Px?) + 3-5% sulphides (py and Po) in discontinuous veinlets. At 27.3 m : a 0.4 cm wide carb/biotite vein about 45° to c.a.
27.9	36.5	PHGN	QTZ		2-3 % sulphides disseminated in the PHGN.	Medium to coarse grained phlogopite bearing quartz-feldspathic gneiss alternating with quartz-rich layers . Phlogopite is concentrated in clusters / bands and quartz is mostly blue-gray in color. From 29.3 to 29.5 m : stretched horizon with 1 cm chlorite bands with some py. bands are at 60° to c.a. from 33.7 to 33.9 m: coarse grained horizon with cluster of 1cm wide phlogopite.
36.5	40.4	PHGN	QTZ			Fine to medium grained greenish gray phlogopite- bearing QFGN. Contains about 5-10% phlogopite and 3-5% sulphides (py and po). Quartz-rich mm bands form well defined foliation. From 38.8 to 39.7 m : white quartzite horizon with 5-10% accessory minerals. From 39.7 to 40.4 m : greenish black, fine grained horizon of QFGN with blue colored quartz.

40.4	49.6	PEG			White pegmatite wit salmon orange (feldspar?), greenish beige (scapolite) and smokey quartz. Scapolite crystals up to 2-3 cm in width (from 41.4 to 40.9 m). From 40.9 to 44 m becomes mostly white zones with white small veins or fibres (wollastonite?) + 3-4 cm long crystals of micas (phlogopite or bioite). Becomes foliated (stretched minerals forming bands) from 44 to 49.6 m and smaller grain sized. From 44 to 46.5 m, traces of orange red garnet up to 1 cm in size.
49.6	60	MBR	5-15% flaky graphite	2-5% sulphides (py, po).	Medium grained granoblastic marble, medium gray to dark gray depending on the graphite content. Very large flake locally from 50 to 51.5 m. Variable proportions of rounded green crystals (diopside?). From 60.1 to 60.5 m almost massive graphite.
60	66.5	MGN	up to 30% at the margins with marble (60-60.5 m and 64.6-65 m).	5-7% py po	Phlogopite-rich mafic gneiss (green yellow-brown color) with minor centimetric quartz/rich bands.
66.5	78.3	MBR	5-15% flakes up to 2-3 mm		greenish gray, medium grained marble . 10-15% blue-green rounded minerals (diopside?) Traces of orange lustrous and rounded mineral (garnet, vesuvianite?).
78.3	82.75	MBR	PHGN mostly 10-15% with local intervals with only traces of Gp. .	2-5%, locally	light to medium gray marble intermixed with decimetric layers of medium to coarse grained greenish or purplish gray gneiss. Gneiss can be either mafic or a phlogopite bearing gneiss. Coarse grained interval may be associated with giant graphite flakes (1 cm). these intervals were observed from 79.2- 79.30 m; 82.6-82.8 m (at the contact with pegmatite);

82.75	86.8	MGN	PEG	traces up to 1% in pegmatite, 25-30% in mafic gneiss.	traces of po in pegmatite; 3-5% in mafic gneiss	From 82.75 - 83.9 m : orange-gray pegmatite with 1cm size crystals of orange salmon feldspar 65%, smokey quartz 25% and green minerals (diopside?). Traces of py and po in pegmatite + some large graphite flakes (traces up to 1%, locally). From 83.9 - 86.8 fine to medium grained black and dark green, mafic gneiss heavily mineralized in graphite of variable flaky sizes (fine to jumbo flakes). 3-5% of sulphides.
86.8	98.2	GTGN	QTZ	traces up to 5% locally, Lump graphite from 97.15 to 97.25 m		Garnet bearing quartzo-feldspathic gneiss intermixed with quartz-rich bands. Quartz-rich bands still contains 2-3% pink garnet and traces of flaky graphite with sizes ranging from 2-4 mm (very large size flakes). Graphite is mostly associated with garnet/phlogopite-rich bands, along with sulphides chunks and veinlets. At 97.15 - 97.25 m : 5 mm size graphite vein (lump) at 15-20° to c.a.
98.2	104.4	GTGN	MGN	traces except from 98.2 - 98.6 m (5-15% Gp, mostly in jumbo flakes/lump).	3-4% up to 10%, locally (po).	Medium to coarse grained garnet and phlogopite paragneiss interlayered with fine grained, greenish gray mafic gneiss. Garnet and phlogopite paragneiss is purplish and light gray. (phlogopite 20-30% and garnet in traces up to 10-15%, locally. Sulphides are disseminated or in veins and are mostly concentrated in phlogopite rich bands. Po associated with phlogopite rich bands (mostly in small mm size veinlets). Local foliations subparallel to c.a. (at the contact with MGN (100.24-100.34 m, 103-104 m). From 100.3 to 100.7 m: silicified bands with large gray crystals (scapolite?). Mafic gneiss is mostly massive and contains 5-25% phlogopite. It is found from 98.2 - 100.2 m and from 103.7 to 104.4 m.
104.4	110	PEG	PHGN	traces	traces up to 3-5% Po associated with darker layer (py and po in chunks).	Beige and purplish pegmatite with 3 cm size beige-white feldspar cystals (60-70%) quartz and phlogopite (mostly from 106.3 to 107.4 m). Phlogopite commonly in clusters or bands. Alternating with a medium to coarse grained phlogopite -rich quartzo feldspathic gneiss.

110	113.1	PHGN	MGN	traces up to 1% in mafic green gneiss	2-3% sulphides (mostly po).	Medium to coarse grained phlogopite rich gneiss interlayered with green massive mafic gneiss. Mafic gneiss also contains 5-10% phlogopite and po and is intermixed with some cm quartz-rich bands.
113.1	115.8	MBR	MGN	2-3% in marble up to 10-20% in MGN	traces?	113-115.4 = fine to medium grained marble; 115.4-115.8 m = fine grained massive mafic gneiss with high Gp concentration from 115.4-115.6m (10-20%).
115.8	122.7	GTGN		1-4% several (1-2 mm size graphite flakes	disseminated po both in quartz-rich layers or phlogopite rich layers .	Medium to coarse grained garnet and phlogopite paragneiss interlayered quartz-rich bands. Either massive or foliated. At 116.95 m : 5 cm wide lump mm vein at 15 -20° to c.a. From 118.36- 118.7 m : garnets are associated with a greenish blue vitreous mineral (cordierite?). at 116.8 m: green powderish alteration on the drill core just before lump graphite. GTGN is foliated from 117.1 to 119.9 m
122.7	125.4	PHGN		1-3% up to 5% in darker layer	traces up to 3-5% Po associated darker layer (py and po in chunks).	Purplish and light blue-gray, fine to medium grained phlogopite gneiss. No garnet observed. Strongly foliated from 122.7- 123.6 m with foliations subparallel to c.a. Darker layer from 123.6- 124.6 m with higher content of phlogopite and sulphides (Po, Py in chunks).
125.4	127.9	GTGN		1-3% fairly large flakes	3-5% Py and Po.	Medium to coarse grained Garnet bearing, quartzo-feldspathic gneiss with phlogopite. Interlayered with cm pegmatitic horizons (mostly sub parallel to c.a.). Phlogopite much more abundant 15% than pink garnet (traces up to 5%). From 125. 5 to 126.5 m , blue green powderish alteration associated with py.
127.9	134.7	PHGN				Mostly foliated, coarse grained phlogopite quartzo feldspathic gneiss. Phlogopite is in significant proportions (25-35%).

134.7	139	PHGN		1-2%	up to 3-5%	medium to coarse grained, foliated phlogopite bearing quartzo feldspathic gneiss with some centimetric to decimetric pegmatitic sweats. From 134.7 - 135.5 quartz-rich interval with a yellowish alteration mineral at the surface. Muscovite is the main mica mineral with some large crystals forming 20-25% of this interval. Phlogopite also present. From 135.5 -139 m: common phlogopite bearing gneiss. Graphite flakes intermixed with phlogopite crystals. Py and po in small veinlets or chunks.
139	141	MBR	MGN	10-15% in MGN; 1-2% in marble	traces?	Fine grained greenish gray mafic gneiss with high amount of graphite (5-10%) from 140.1 - 140.4 m at the margin of a marble horizon (140.4 -141 m). Marble is medium grained, greenish gray and contains 10-15% green mineral (diopside?) and traces of a orange, rounded mineral (vesuvianite?). Mafic gneiss is very stretched and contains several mm size chl/ py veinlets subparallel to each other at 25-30° to c.a.
141	149.2	PEG	MBR	2-3% graphite in marble horizon, traces in pegmatite	traces in a mm veinlets, sub parallel to c.a. (142.7).	Pegmatite with a mineralized marble horizon (from 141.8 -to 142.3 m). Pegmatite is mostly beige and white except from 142.3 - 144.3 m where it contains 10-15% of large size phlogopite crystals. Core is traversed by several mm white cleavage lines indicative of the presence of scapolite?? Also, decimetric intervals with graphic texture, mostly between 148 -149 m. Marble is medium to coarse grained and is greenish gray in color (chloritized?). From 146.3 to 146.4 m : graphitic texture (?) formed by a black mineral into pegmatite (tourmaline? - triangular shapes). From 145.9 - 149 m, 3-5% large (1-3cm) biotite crystals.
149.2	154.4	GTGN	QTZ	1-2% in average. Up to 3-4% locally (associated with phlogopite/ garnet crystals).	3-5% Po from 151.3 to 151.6 m.	Garnet bearing quartzo-feldspathic gneiss intermixed with quartz-rich bands. Contact is mostly parallel to c.a. From 150 -150.3 m: white, slightly pink quartzite. Contains traces-1% very large graphite flakes. In strongly foliated zones, graphite flakes tend to align along foliation. From 151.6 - 151.9 m : fine grained, green and massive interval, slightly carbonated with no graphite. Carbonated band is separated from gneiss by a 2-3 cm rich garnet band (1-2 cm wide), pink in color. Mm size carbonated veins from 151.4 to 152 m. at 151.4 m : 1 mm size po vein, perpendicular to c.a.

154.4	161.9	GTGN	QTZ	traces up to 2 % locally	3-5% Po, mlostly associated with phlogopite	Garnet and phlogopite foliated gneiss intermixed with pinkish quartzite. Medium to coarse grained. Phlogopite and garnets forms about 50% of the rock with garnet clusters up to 1 cm in size. Contacts between garnet -bearing gneiss and quartzite tend to be enriched in garnet forming clusters. Sulphides and quartzite are associated with garnets clusters (flows around the crystals). Foliations is mostly subparallel to c.a. Quartzite is pinkish and may contains up to 5-10% pink garnet, 2-3% chlorite, traces- 1% of sulphides and traces- 1% graphite. Quartzite layers aremostly coarse grained with garnet up to 3-4 mm in size.
161.9	165.9	PHGN	PEG	traces	1-3% py po	Coarse grained, Phlogopite quartzo feldspathic gneiss, foliated along c.a. quartzo feldspathic pegmatite (crystal size 1cm) with 10% phlogopite. From 150 m - 180: some mm size carbonated veins, either subperpendicular, subparallel or at 45° to c.a.
165.9	173.2	GTGN	QTZ	traces up to 3- 4%, locally (associated with garnet cluster)		Garnet and phlogopite foliated gneiss intermixed with pinkish quartzite. Medium to coarse grained. Phlogopite and garnets forms about 35% of the rock with garnet clusters up to 1 cm in size. Sulphides and graphite are associated with garnets clusters (flows around the crystals). Foliations is mostly subparallel to c.a. Quartzite is pinkish gray and contains up to 5-10% pink garnet, traces- 1% of sulphides and graphite. Some quartzite layers are finer grained and foliated. Some garnet/phlogopite intervals 166.8-170 m are darker in color (chloritized?) with higher Gp and sulphides content.
173.2	177.1	PHGN		traces/ 1%	2-4% po in veins // to foliation	Strongly foliated (subparallel to c.a.) phlogopite (35-45%) gneiss with 10-15% pegmatitic sweats. Coarse grained and dark purplish brown and white in color.
177.1	180	GTGN	QTZ	traces - 1% gp flakes mostly subparallel to foliation	traces up to 3% locally (mostly po)	From 177.1 - 179 m : fine to medium grained pinkish gray quartzite with up to 15% mm sized garnet. Strongly foliated, locally. Several mm size carbonated veinlets mostly in quartzite and sub perpendicular to c.a. Garnet bearing paragneiss (179.4 - 179.8 m) is dark green with 15-25% phlogopite. Chloritized?

180	190.1	PHGN	GTGN	traces higher content associated with phlogopite?	2-3% mostly po%	Strongly foliated phlogopite gneiss. 1-3% muscovite also present. Dark purplish brown and greenish gray in color (chloritization?). About 10% of the rock is formed by centimetric to decimetric pegmatitic veins (186.85- 186.95 m). From 185.5 to 186 m, some cm fine grained and yellowish green (epidote?) zones with higher content of graphite flakes (1%).
190	192.4	PEG				Beige Pegmatite with 3-4 cm size crystals of orange salmon feldspar, greenish grey (scapolite?) and smokey quartz with traces of pegmatitic phlogopite.
192.4	194	PHGN		traces		Phlogopite bearing gneiss with muscovite rich bands.

Buckingham Project		Hole:	Contractor: RJLL	Date : start : 2018-01-25 end: 2018-01-27
CKR Carbon Corp.		CK18-06		
Easting: 459200	Total Length:			
Northing: 5053298	182			
UTM Nad 1983, Zone 18		Azimuth: 320°	Dip: 45°	Isabelle Robillard, P.Geo OGQ#287

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	3.3	OB				Overburden
3.3	11.75	QTZ	PHGN		2-3% py po	Impure quartzite mostly white with 5% chlorite and 2- % sulphides, medium to coarse grained. Pegmatitic horizon from 3.6 to 4.4 m. Minor horizons (10-15cm) of PHGN: contacts between PHGN and QTZ at 30 between 3.3 and 5m, then subvertical between 5 and 11.75. Black mineral (amphibole, tourmaline?). PHGN is fine to medium grained greenish and purple with purple phlogopite forming bands ou concentrés en amas (15%).
11.75	24.15	PHGN	PEG			Fine to medium grained greenish gray phlogopite- bearing QFGN. Contains about 5-10% phlogopite and 3-5% sulphides (py and mostly po). Minor Quartz-rich and corser grained bands or horizons (generally about 5 cm wide). From 17.9 m, sulphide and chlorite contents increase with more frequent pyrite chunks and mm veinlets (about 30 deg to c.a.).From 18.3 m, some carbonate/py veins, 5-7 mm wide (18.63, 20.65 m).

24.15	36.55	MGN	MBR	zones of flaky graphite (24-25 m) next to carb zone. Also present as veinlets or chunks	from 24.15 to 29: mm sized py veinlets. PY = 5%; po -23%; from 29-37.55 = no py veinlets but same amount of sulphides	Mostly fined grained greenish gray gneiss alternating with quartzo-feldspathic and coarser grained (Up to 1.5 cm) gneiss. Gneiss is intercalated with decimetric carbonates horizons (29.15-29.4; 25.08-25.4; 27.75-27.9; 29.12-29.16; 30.05-30.15; 31.08-31.12). graphite flakes up to 5-10% associated with some carb horizons. GP content average 1-2% throughout whole interval. between carb horizon from 24 to 25 m, graphite blob also appear nearby pyrite vein (photo). from 29.3 -29.7: calcite rich zone. carb. horizon = medium grained dotted with green chlorite (or chloritized diops?).
36.55	37.74	MBR		2-3 %	2-3% ppy	granoblastic marble, medium grained. Light greenish gray with 5-10% diopside
37.74	40	PHGN	QTZ	upt to 2-3 % locally	2-3 % sulphides disseminated in the PHGN.	Fine grained QFGN, greenish gray in color. Minor mm or cm of carbonated, yellowish beige horizon. From 38.5 38-6 pegmatite injection that contains Po.
40	43.1	PHGN	QTZ		3-5% py, and po	Medium grained, phlogopite-bearing gneiss with minor decimetric quartz rich horizon (40.6-41.1; 41.7-42). Augen qtz from 40.6 -41.1. Po veinlet at 42.5 sub perp to c.a.

43.1	52.3	QFGN				Fine grained QFGN, greenish gray in color. Minor mm or cm - carbonated, yellowish beige or light orange horizons. No significant graphite associated with beige-orange carb horizon. Orange color due to presence of light orange (rounded mineral) garnet? Carb horizon: 48.5 48.75; two coarse grained quartz rich horizon: 45.95-46.25; 50.55- 50.8 m.
52.3	59.5	QFGN		1-2%, locally	3-5 py, po%	fine grained QFGN with 1-2 % Gp locally. Coarse grained layers (pegmatite) from 57-57.5 and from 57.7 -58-1. Pegmatite is composed of Feldspar-diopside and titanite (photo)
59.5	77	QFGN	MBR	1-2% entre 63-64 m	PY associated with carb vein or qtz vein. Also in some carb zone (from 73-77 m).	Fine grained QFGN greenish gray in color alternating with medium grained slightly carbonated horizon. Generally massive except minor zone with moderately developed banding (from 59.5- 61m). Several carbonated zones contain orange salmon mineral (feldspar?) and are dotted with 1-2 mm size diopside crystals. At 68.35 qtz vein with carb on each side and py chunk
77	83	MBR	QFGN			Impure marble with 25-30% diopside and orange salmon feldspar, interlayered with quartzo-feldspathic gneiss. Impure marble is medium grained and qfgr is fine grained except from 77 to 77.8 m where it is coarse grained. Coarse grained QFGN layer contain qtz-feldspar with some greenish mineral (chlorite or diopside) and orange brown vitreous mineral (titanite? garnet?)

83	85.4	MGN		5-10% po-py up to 15% in carb layer	Medium grained, pxnite bearing gneiss. greenish and massive. Usually contain higher content of sulphides (mostly po). At 84.8 m: 2 carb veinlets (1mm in width).
85.4	90	qfGN	MBR	up to 15% in local zone (86.7 m)	QFGN alternating with impure marble (carbonated zones). From 86.7 -86.8 m: carb zones are dotted with 15% po and diopside. Carbonated zones contain orange salmon feldspar and 5-10% biotite.
90	98.85	QFGN	MBR	5-8 po-py%	fine to medium grained greenish gray px bearing QFGN alternating with carbonated zone. At 91.3 m = contact with muscovite bearing zone (contact at 15-20 deg to c.a.) this zone is 15 cm long. From 93.9 -94 = brownish red mineral (colored feldspar?). Transition between Carbonated zone and QFGN is more sharp. Carbonated zones are white and dotted dark green (diopside). sulphide content is higher in green gneiss (5-8% py-po).
98.85	111.6	MGN	PEG	5-8% po Veins and chunks (po) from 104-111.6 m	Medium grained px bearing QFGN (greenish gray) with pegmatitic zones. From 100 to 100.5 = large (up to 2 cm) titanite crystals. From 104 to 107, higher content of sulphides (mostly po). Either in pegmatite or QFGN. Po is either disseminated or in vein (perp. 45 or sub horizontal to c.a.). Pegmatites are found from 105.1 to 105.7; 106.3-106.6 m; 109.3-109.6 m 110.3-110.8 m. Pegmatites are quartzo feldspathic and light gray, except 110.3-110.8 (qtz-feldspar + 30-35% diopside). They contain sulphides and 5% diopside. from 106 107 m: 5-10% phlogopite. At 104.8 m and 107.4 m : Po massive veins (sub perp. to c.a.

111.6	116.4	PEG	QFGN	5 up to 15%	Medium to coarse grained quartzo feldspathic gneiss with porphyritic horizon (from 111.7 to 112.3 m). Porphyritic horizon is quartzo feldspathic and contain 20-25% tabular dark green diopside and 2-5 brownish crystals (sphene). Diop and sphene are up to 2 cm in size (photo). QFGN is coarse grained and contains 10-15 % interstitial sulphides. Looks like Po (pinkish color) but non magnetic. From 115.1 - 116.4 m : pegmatitic horizon (qtz feldspathic with 05 cm size crystals).
116.4	125.3	QFGN		2-3% py	Fine grained, greenish gray QFGN with local coarser grained centimetric horizons. Coarse phlogopite and some blue quartz observed locally. From 123.3 to 125.3: medium grained and light green in color (20-25% pyroxene).
125.3	133.3	QTZ	QFGN	traces, local vein or chunk (from 130.7-131)	White/light gray quartzite with minor zone px bearing QFGN (same as 123.-125.3 m). Contains 5% accessory minerals (blue-green dark colored qtz, chlorite biotite, pyrite. Contact at 60 to c.a. with QFGN
133.3	141.35	PEG	QFGN	po 3-4 mm veinlets in QFGN (134.7)	White pegmatite composed of white quartz and feldspath 3-4 cm large feldspath (or scapolite?) crystals with blueish (comme labradorite) and interstitial smokey quartz. Traces of red garnet and pale mineral (vesuvianite?). Black mineral associated with red garnet (tourmaline or hornblende?). Also traces of Large flake (ou plaquette) of biotite
141.35	145.9	qFGN		traces in carb. Zones	Fine to medium grained greenish gray QFGN with minor carbonated zones (generally orange salmon in color). QFGN is generally massive and contains 2-5% sulphide. Carbonated zones are orange salmon dotted with green (diopside/chlorite). Traces of gp in some carbonated zones. 5% vitreous almandin orange mineral (humite ou vesuvianite?).

145.9	150.75	QFGN	PEG	3-5 % po, locally (150 m)	3-5% Py and Po.	1-2 mm width carb veinlet à 145.9 m sub horizontal to c.a. greenish gray fine grained QFGN with decimetric pegmatites injection. QFGN contains 3-5% po (interstitial or in chunk (147.4m). Pegmatites are found at 146..14-146.24; 147.5-147.52; 148.5-149.1. 1-2 cm size crystals of quartz feldspath and brownish laths (altered diopside into chlorite?) traces of sphene.
150.75	160.8	QFGN	MBR	5% in carb. Zones, 2-3 % locally: in QFGN nearby carb. Zones	5-10% interstitial	Fine grained QFGN with minor graphitic marble horizons. Fine grained QFGN is brownish gray to greenish gray and contains interstitial sulphides (mostly po). Sulphides are also found in veinlets, locally (from 150 to 150.5 m). 3-4 mm in width and 60 deg to c.a. From 155.5, minor quartz-rich (quartzite) zones (3-4 cm slightly blueish in color) contains 5% phlogopite from 158-160.8 m. Two pegmatites zones (5-10 cm) from 153-155 m.) Marble is found at 150.7-150.85; 154.1-154.75; 155.1-155.33 m) and is typically medium grained with a granoblastic texture. Light gray in color and contains 5-10 % Gp flakes.
160.8	165.85	QTZ	PEG		traces	white medium to coarse grained quartzite with 5% accessory minerals: phlogopite, chlorite sulphides. From 161.05 161-1 : porphyritic horizons with 3-4 cm large clusters of chlorite/phlogopite. 161.38: contact with QFGN (dernière passée ds quartzite) peut être coupé là à la place contact at 30 deg to c.a.
165.85	167.75	DFZ	PEG			Highly stretched quartzite, dark gray and fined grained. Banded with cm zone of white quartz. banding is at 25-30 deg to c.a. quartz augen frequently observed (photo). Interlayered with a pegmatitic zone from 166.25 -166.9 m. Pegmatite is quartzo feldespathic and contains white (slightly orange) and vert tendre feldspar and smokey quartz. Graphitic texture sligthly developed. crystals are up to 3-4 cm in size (photo).

167.75	177.6	QTZ	PHGN	traces of gp in phlogopite rich zones	trace py	more or less impure white quartzite from 5% to 25 % accessory minerals (chlorite phlogopite, white vert tendre feldspar, sulphides). Phlogopite rich layers (20-30%) from 168.2 to 169 and from 177- 177.6 m with phlogopite forming bands (therefore these units could be identified as phlogopite bearing gneiss.
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177.6	182	QTZ	PEG		3-5% Po from 151.3 to 151.6 m.	Same as 167.75 -177.6 m. From 179.42 -179.54: diabase dyke. Centimetric pegmatitic zones from 177.7-178.2 m and 178.9 to 179.15 beige greenish feldspar up to 3-4 cm. crystals are generally 1 cm.
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**end of
hole at
182**

Buckingham Project		Hole:	Contractor: Acklo Diamond Drilling Ltd.		Date :
CKR Carbon Corp.		CK17-07			start : 2018-01-27
Easting:	459237	Total Length:			end: 2018-01-28
Northing:	5053544	177 m			
UTM Nad 1983, Zone 18		Azimuth: 125°	Dip: 45°	Isabelle Robillard, P.Geo	
				OGQ#287	

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	3.4	OB				Overburden
3.4	9.85	QTZ	PHGN	traces of graphite	2-3% sulphides	white and light gray quartzite more or less impure. Interlayered with phlogopited rich zones forming well developed bands (60 deg to c.a.).
9.85	12.65	QTZ			2-3% , 5-10%, locally in phlgopite rich layer.	More or less impure quartzite with coarse grained texture . Equigranular from 10.5 to 12.65 m. This horizon seems to be a mixture of qtz grain and feldspar + 5-10% phlogopite.
12.65	29	QTZ	PHGN	traces of small gp flakes in phlogopite rich zones and from 18 m downward in blue qtz.	1-2 py and po%	Blueish quartz (quite sharp contact between white and blue qtz and white quartz. Interlayered with phlogopite rich layers forming well developped banding (45 to 60 deg to c.a.). Phlogopite gneiss is fine to medium grained and is banded with quartz rich bands (sweats). the unit is coarser grained from 25 to 29. From 28-29 m blue quartz is mixed with light greenish bands (chloritization?).

29	31	MGN	PHGN	2-3 %	2-3% py	phlogopite bearing gneiss with minor horizon of mafic gneiss (from 20-29.5 m). Mafic gneiss is dark green with 10-15 % pyrite in "aligned" chunks. Foliation or sheared zone is 20 deg to c.a. Phlogopite bearing gneiss is medium grained and contains 5% diss sulphides (stained and yellowish..cpy?).
31	32	DFZ	GTGN	2-3% some gp along slickenside		Strongly sheared and foliated garnet bearing para gneiss from 31 to 31.8 m with py veinlets at 15-20 deg to c.a.. Slickenside visible. Foliation or sheared zone is 20 deg to c.a.
32	37.15	QTZ	GTGN	traces in QTZ and to 1-3% in GTGN		Quartzite interlayered with garnet bearing paragneiss. Quartzite is fine to medium grained and is lilas (between pink and blue) in color and contains up to 15% pink garnet. Garnet bearing paragneiss is coarse grained and contains white-beige feldspath and clusters of garnet (up to 1cm in size). Not much mafic mineral (px in GTGN) from 35.75-35.85 : dark green , 1.5 cm long needle shape mineral (tremolite?).
37.15	47.35	QTZ	GTGN	3-4% in GTGN ; 1% in QTZ	2-3% py	Blueish quartzite interlayered with small (3- 25 cm) banded garnet-bearing paragneiss. Quartzite is coarse grained and spotted with light green feldspar. From 42-43 m quartzite contains traces up to 5-10% pink rounded garnet (3-5 mm) in a few zones. Garnet bearing gneiss is generally greenish gray slightly pinkish in color, fine to medium grained and is well banded. Foliation vary from 30-45 deg to c.a. Minor zones of GTGN are coarse grained with clusters of garnets and white-beige feldspar.

47.35	56	phgn/gtgn	MGN	3-5% in phgn up to 10-15% in more mafic unit%	5-10% py and po in more mafic units.	Fine to medium grained, phlogopite bearing (5%) QFGN, gray and slightly green in color. Traces of pink garnet. Well developed banding. Folded banding from 51.7 to 53 m (photo) and from 54.9 to 56 m. From 50.3 to 51.3 m : Graphite rich zone in darker unit. and associated with sulphides (py and po).
56	60.4	GTGN/phgn	MBR	10-15% graphite	up to 5-10% po py locally ("aligne2 chunks or veinlets 45 to sub vertical to c.a.	deformed (folded foliation) and banded phlogopite (5-15%) bearing gneiss with minor marble zones. Graphite content vary from 2-3% to 15-20%. Higher graphite content generally associated with sulphide (po in chunk or veinlets). From 59.6-60.4 m = QFGN (quartz rich, medium to coarse grained zone. At 59.7 = 1 cm GRaphite vein (lump graphite) 15 deg to c.a. do not cross the whole core (probably contorted) (photosss). Gp goes around qtz chunk (photo)...so subsequent mineralization? At 58.6 : graphitic marble zone
60.4	75.4	MBR	PEG	10-15% graphite	2-4% py po	Graphitic marble, dark gray in color. Slightly magnetic, traces of diopside. Graphite flakes up to 2 mm in size. From 73.85-73.95 and 74.2-74.4 = white pegmatite (qtz-feldspar).Contacts with peg/gneiss is at 30 deg to c.a.
75.4	82.3	PHGN	MGN	1-3% in PHGN;	3-5% sulphides (po, py)	Fine grained , green mafic gneiss (CSR?) from 75.4- 76.1. Not mineralized in graphite except for a 2 cm large graphitic band at 75.9. From 76.1 82.3 : coarse grained to pegmatitic phlogopite-rich gneiss, brown/purplish in color (phlogopite 30-35%). Fairly well developed banding in medium grained size horizons. Orientation of banding is highly variable. from 78-81 m: generally subparallel to c.a.; from 77-78 = 45 deg to c.a.; from 81-82 m = 20 deg to c.a.

82.3	86	MGN	MBR	up to 20-25% in MGN	2-5%	Dark green mafic gneiss alternating with minor graphitic marble horizons. Two centimetric, coarse grained and qtz rich horizons from 82.17-82.26 and 83.33 and 83.43 m. Marble and mafic gneiss are strongly enriched in graphite (20-25%). Mafic gneiss is fined grained and is mostly composed of px and graphite. Marble is like 60.4-75.4 interval.
86	91.78	PHGN	MGN	traces except for MGN unit (10-15)	5-10% locally (po)	Coarse grained blue/gray and brown/purplish gneiss. Contains 5-15% phlogopite and 30-35% quartz teinté bleu. 5-10% of po, locally (From 86.8 to 87). Pink garnet (5-10% are observed at 90.35. -90.45. Moderately developed banding at 45-60 deg to c.a. From 90.9 -91.78 : dark green and fine grained mafic horizon intermixed with PHGN .contact with PHGN is at 50 deg to c.a. Local enrichment of graphite and po in mafic units.
91.78	102.3	PEG	DFZ		5-8%po Veins and chunks (po) from 104-111.6 m	91-8-92.5 dark gray deformed (ductile) zone. Highly stretched minerals, qtz augen. From 92.5 to 102.3 = quartzo feldspathic pegmatite. From 92.5 - 98.5 : large feldspar crystals up to 4 cm and smokey quartz. Some biotite crystals (1%), locally. Development of graphitic texture (at 94. 5 and 97.15-97.4 m). From 98.5 - 102.3, the pegmatite is light gray with some orange salmon zones (from 100-102). Biotite crystals up to 5-6 cm are present in higher proportions (up to 5-10%) but other minerals are 1-2 cm in size (less coarse than orange/salmon part) .
102.3	107.2	QFGN	QTZ	2-3% in phlogopite zone	2-5% py	Medium grained QFGN with minor phlogopite bearing gneiss zones. Well developed banding 45-60 deg to c.a. in phlogopite bearing zones. Some graphite in banded phlogopite zone (2%) and pyrite in QFGN.

107.2	112.6	GTGN	QTZ	2-3% in GTGN, up to 15-20% in MGN		medium to coarse grained garnet bearing gneiss and blueish impure quartzite (from 108.3- 109.3 m). Garnet (5-10%) forms clusters roughly aligned along foliation (30-35 deg to c.a.). Quartzite is dotted with 3-5% green minerals. From 107.7 to 108 dark green mafic gneiss massive and enriched in Gp (5-10%) Pegmatitic horizon at 110.9 with cm size graphite flakes
112.6	115.4	MGN	QFGN/P EG	up to 20-25% in MGN	5-7% in MGN	112.6-113.75 Mineralized dark green mafic gneiss fined grained and massive . 113.75-114.8 Pegmatite with graphite veinlets.
115.4	118	QFGN	MBR	traces in carb zoes		QFGN, fine grained medium gray massive with phlogopite rich zone (116.45-116.65m). Minor centimetric zones (1-2 cm) or lenses of marble
118	123.5	MBR		2-5%	2 %	Light gray to medium grain equigranular relatively pure marble. Traces of light orange mineral, 5-10% diopside. 2-3 % flaky graphite)1-2mm). At 123.5 : diabase dike.
123.5	133.6	DBS				Black or dark green fine grained diabase dyke. Becomes greener and fine grained from 128.5 downward. Qtz/carb veinlets from 130-131 m at 15-30 deg to c.a. Slickensides (chlorite vein) at 132.5 m sub parallel to c.a.

133.6	145.4	MBR	MGN	mostly 15%-20% outside pegmatitic zones	py po 2-3% up to 5-8% po at 139.6 (chunk).	Strongly mineralized horizon or marble intermixed with mafic gneiss (diopside / CSR rock). Marble is dark gray, medium grained and mafic gneiss is mostly aphanitic (recrystallized and silicified?). CSR intervals are 137.85-138.35; 141.38-141.6; 142.55-145.4. Interval 142-145 is not evenly mineralized (only small 1-2 cm bands are graphite rich. CSR vary in color either dark gray with 20-25% gp and 5-10% sulphides or light green or salmon orange from 142.2-142.85. At 138.9-139.1 m pure graphite
145.4	157.15	QFGN	CARB	1-3% in carbonated horizons	2-3% py po, local 0.5 cm chunks or 1-2 mm size veinlets 60 deg to c.a.	Fine grained QFGN, mostly massive interlayered with coarser qtz-rich zone. Also intermixed with Some centimetric carbonated zones (145-145.4m; 146.4-146.55 and other of lesser extent (just a few cm)). Greenish gray. Flaky graphite, locally (in some carbonated horizons).
157.15	170.8	QFGN	cARB	traces up to 1-2% locally	2-3% py po, local 1-2 mm size veinlets 60 deg to c.a. from 168-169 m.	Same as 145.4-157.15 except carbonated zone is orange salmon in color and decimetric pegmatitic horizon (159.55-160.2m) Orange salmon Carbonated horizon are found at 157.18-157.25 and 158.86-159.50. They are medium grained and equigranular dotted with dark green minerals (they do not contain gp). pegmatitic horizon is is quartzofeldspathic, mostly white or light gray in color and contains 3-5% tabular crystals, brownish in color up to 2 cm
170.8	177	MBR	QFGN	traces in QFGN; 2-4% in marble	2-3% py	Same as 145.4-157.15 except carbonated zone is orange salmon in color and decimetric pegmatitic horizon (159.55-160.2m) Orange salmon Carbonated horizon are found at 157.18-157.25 and 158.86-159.50. They are medium grained and equigranular dotted with dark green minerals (they do not contain gp). pegmatitic horizon is is quartzofeldspathic, mostly white or light gray in color and contains 3-5% tabular crystals, brownish in color up to 2 cm (sphene?). Sulfides are disseminated or in local veins. From 160.1-160.3 : large gp flakes in coarse grained QFGN.

Buckingham Project		Hole:	Contractor: RJLL	Date : start : 2018-01-28 end: 2018-01-29
CKR Carbon Corp.		CK17-08		
Easting: 459233	Total Length:			
Northing: 5053353	149 m			
UTM Nad 1983, Zone 18		Azimuth: 120°	Dip:45°	Isabelle Robillard, P.Geo
				OGQ#287

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	7.2	OB				Overburden
7.2	10.5	MBR		15-20%		Dark gray strongly mineralized marble from 7.2-9.3 m. Sharp change to orange/salmon and light green carbonated layer. This layer contains 2-3% graphite flakes.
10.5	16.6	PHGN	PEG		1-2 py and po%	Mostly coarse grained (to pegmatitic) phlogopite gneiss intermemixed with pegmatitic horizon of quartzo-feldspathic composition. Purplish brown (phlogopite) and bleuish gray (qtz) in color. Phlogopite is present in prop up to 30-35%. From 14.9 to 15.35 (some red orange clusters of garnet?, locally). from 10.5 to 12.1 several dark veinlets (mm sized) at 30-45 deg to c.a.
16.6	23	QFGN	PHGN		1-2 py and po%	From 16.6-16.9 dark, aphanitic zone with highly stretched minerals (ductile deformation zone). From 16.9-23: fine grained light gray QFGN with coarser grained-quartz rich horizons. Quartz is blueish in color. QFGN is intermixed with phlogopite bearing zones (5-10% phlogopite). From 22-23 m , some mm size carb veins at 70-sub perp. to ca..

23	26.4	QFGN	CARB	po chunk locally (23.7) or mm veinlet (23.45 sub perp. To c.a.)	Fine grained QFGN with 0.5 cm size carbonated horizon (23.12 and 23.30). Carbonated horizons are medium grained. They are white (calcite) and dotted with black diopside (1-2mm size).
26.4	30.85	PEG	PHGN		Bluish/green/gray coarse grained phlogopite bearing gneiss with pegmatitic zone. Feldspar is blueish green. In pegmatitic zones, phlogopite is commonly concentrated around feldspar crystals (up to 2 cm wide) photo. From 27.4-27.8 m 3-6% py/po in chunk or veinlets (65 deg to c.a.). At 29.3 m chlorite/carb veinlets subperp. to c.a.
30.85	34.9	QFGN	CARB		Fine grained and fairly finely banded QFGN intermixed with carbonated zones forming about 30-35% of the unit. Carbonated zones are white or orange salmon and are dotted with dark green diopside. 2-3% sulphides in small chunks.
34.9	37	MGN	PEG	5% locally	dark green px-bearing gneiss with a pegmatitic zone from 35.3-36.8 m Mafic gneiss is rich in qtz-feldsp but contains 10-15% diopside and orange adamantin/vitrous rounded minerals (1-2%). Chunk of po at 35 m (1 cm wide). Pegmatite is qtz-feldsp in composition and feldspar crystals are 3-4 cm in size, light green or orange/salmon in color. Stretched crystals, pegmatite looks like highly deformed (ductile). Black mineral at 37 m (tourmaline?).

37	46.5	QFGN	carb	1-2% gp in carb. Zones		Massive or finely banded QFGN with several centimetric or decimetric carbonated zones forming about 20-25 % of the unit. From 41.1 to 41.6 m and 43 - 43.7 m : chloritized zone with several centimetric (and some mm) white carb veins sub perp. To c.a. small pegmatitic zone (mostly orange salmon feldspar 0.5 1 cm wide) from 40.6-40.9 m). carbonated zones are generally at 70 to subperp to c.a. Mostly light gray and dotted with 15% 1mm diopside.
46.5	54.75	MBR		10-15% graphite		Graphitic marble, dark gray in color. Slightly magnetic, traces of diopside. Graphite flakes up to 2 mm in size. A few decimetric non mineralized QFGN units intercalated in the marble : 47.6-48.1 m. Some green (chloritized spot) xenocrysts (?) observed from 48-48.5. At 51.35 m = 1 cm wide carb/chloritic vein at 45 deg to c.a.
54.75	57.3	QFGN	carb	traces	3-5% locally	light greenish gray fined grained carbonated QFGN. 2-3% orange adamatin/vitreous mineral observed from 57.2-57.3.
57.3	64.3	MBR		5-10%		Light to medium gray graphitic marble. Medium grained and granoblastic with minor (traces) xenocrysts (qtz of feldspath). Upper and lower contac at about 45 deg to c.a. A few carb. Veins at 61.3 and 69 m.

64.3	71.9	CARB QFGN	DFZ	traces -1% in carb. Zones		Light greenish gray fined grained carbonated QFGN. Several cm carbonated zones at 35-40 deg to c.a. Minor coarse grained horizon of salmon orange feldspar zones. From 66.7 - 67.25 phlogopite rich layer with highly stretched minerals and well developed foliation + chloritic + py zone at 20 deg to c.a.
71.9	73.6	MGN	PeG			Dark green px-bearing gneiss with a pegmatitic zone from 72.3-72.85 m. Mafic gneiss is rich in Qtz-feldsp but contains 30-35% px and phlogopite (1-2%). Pegmatite is Qtz-feldsp in composition with up to 0.5 salmon orange or white feldspar. First half (72.3-72.6) is gray white and light green and contains 5-10% phlogopite. Looks harder (like silicified from 67.9 to 71.9).
73.6	91	CARB QFGN			2-3%	light greenish gray fined grained QFGN with centimetric to decimetric carbonated zones. QFGN is massive to finely banded (perp to c.a.) with minor coarse grained Qtz-rich zone (mixture of Qtz-feldspar, 5-10 tabular green (diopside) and brownish orange mineral. Sulphide chunks (py) associated with one of these zones (from 80-81 m). Carbonated zones are generally white beige to light orange salmon. They vary in width from 2 cm to 25 cm. They are medium to coarse grained and contain diopside + orange rounded mineral and 2-3% py-py (photo).
91	94.7	MBR	QFGN	1-2%	2- up to 4-5% locally	Impure marble. Looks like QFGN mixed with carbonated matter. HCl reaction is weak to moderate and the unit is finely banded. From 92-93 banding is at 15 deg to c.a. and from 93-94 it becomes subparallel, locally (Deformed area, photo).

94.7	104.05	MBR		3-15 up to 20-25% from 102 to 106	3-5%py	Light gray to dark gray graphitic marble with 3-5 % gp in light gray section (95-100) and 10-15% gp in dark gray section (100-104). 10-15% diopside ad 5-8% diss py/po. Gp content tend to increase with depth until it reaches its paroxism at the lower end of marble and for a further 2-3 m in dark mafic gneiss.
104.5	107.6	MGN		up to 20-25%	10-15 py in chunks and veins%	Fine grained graphitic, mafic rock, black in color. Contains high concentration of graphite associated with 10-15% sulphides (mainly py as non magnetic), distributed in chunks and veins. A 107.1 m : carb/py veinlets at 45 deg to c.a. At 107.5 = py chunks are associated with dakr blue-green feldspar zone (?) photo. chunks aligned along 30 deg to c.a.
107.6	112.9	DFZ	PHGN	up to 20-25%	up to 10-15 locally	Broken and deformed zone: from 107.6-108.65 Stretched and strongly foliated phlogopite gneiss. Gray in color as high proportions of mica or sericite. From 108.6 to 110.4 : grinded section all broken in small pieces from 110.4 to 111 coarse grained phlogopite gneiss. purplish and white from 110.4 to 110.7 then becomes gray and loaded with graphite from 111 to 112,7 m : 2/3 of core is lost (pure graphite) seams. (photo).
112.9	117.4	PHGN		1-2%	2 %	Fine to medium grained phlogopite gneiss (30-40% phlogopite). Color is mostly purplish and white with some gray and white horizons. Graphite flakes is higher in gray horizons. Dotted with recrystallized qtz/feldspar zones stretchd along 45 direction to c.a. Gray horizons from 112.9-113.3; 115-115.3; 115-7 - 117.4 m Changes from purplish to gray is quite sharp (not gradational).
117.4	121.8	QTZ	PHGN			Impure quartzite intermixed with phlogopite gneiss. Blue quartzite with several PHGN bands from 117.4-118.65 m. Bands oriented at 30 deg to ca. Turns to white quartzite with 5-10% accessory minerals (Chlorite). Light gray qtz from 120.9 to 121.8). Other than these sections, phlogopite bearing (10%) gneiss. From 117.4 - 117.5 = several 1mm size py veinlets subparallel to 15-20 deg to c.a.

121.8	130.5	PHGN	traces		quartz rich gneiss with 5-10% medium grained phlogopite which defines fairly well developed banding. Banding is generally along 35-40 deg to c.a. except from 124.3 to 125 (sub parallel to c.a.). Color vary from purplish and white to greenish gray and white (chloritization?).
130.5	131.65	PHGN	MGN	2-3% locally, some mm size veinlets	Medium grained QFGN with 5-10% phlogopite. Dark greenish gray with blueish quartz. 5-6 mm size carb. Vein at 35-40 deg to c.a. at 131.5 m. From 131.5 to 132.15 px-gneiss dark green in color and massive.
131.65	141.3	QTZ	PHGN	traces	White to light gray impure quartzite interlayered with phlogopite bearing gneiss. Quartzite is coarse grained and contains 5-15% accessory minerals (dark green or purplish brown) . From 139 -140 m : minerals are stretched and form poorly developed banding (sub parallel to c.a.). From 135-136.2 m : medium grained phlogopite gneiss (phlogopite = 25-30%). Brown purplish and white in color and phlogopite rich layer form fairly developed banding at 50-65 deg to
141.3	146.5	PHGN	QTZ	traces	fine to medium grained QFGN purplish brown. Phlogopite is in proportions of 30-35%. At 142.1 and 144.1, 146.3 the rock is fractured at 15-20 deg to ca. (chlorite/py/carb) in fracture. Minor cm quartz rich bands in phlogopite gneiss forming bands at 15 eg to c.a. Quartzite is white and contains 15-20 % accessory minerals. At 142.6-142.85 pure white quartz.

146.5	149	QTZ	White coarse grained quartzite with 10-15% accessory minerals (chlorite). From 148.15-148.7 PX gneiss dark green in color with 5% phlogopite. Massive and contains 1 mm
			size py veinlets at 15-20 deg to c.a. EOH in white quartzite.
		MGN	
EOH at			
149			

Buckingham Project		Hole:	Contractor: RJLL	Date : start : 2018-01-29 end: 2018-01-30
CKR Carbon Corp.		CK17-09		
Easting: 459449	Total Length:			
Northing: 5053601	201			
UTM Nad 1983, Zone 18		Azimuth: 300°	Dip: 45°	Isabelle Robillard, P.Geo OGQ#287

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	2.7	OB				casing
2.7	14.3	GTGN	PEG	1-3%		Fine to coarse grained phlogopite gneiss with 2-3 % pink garnet. Rock is rusty and moderately fractured until 10.5 m. Minor decimetric pegmatites at 5-5.3; 7.3-7.45; 8.3-8.9; 13.1-13.6. Phlogopite gneiss vary from purplish brown to greenishg gray (chloritization?). Several fractures sub parallel to c.a. with chlorite. dotted with white (micas or sericite?) from 5.75-7m. sericite alteration? Traces -2% pink garnet (3-4 mm in size). Graphite starts to appear at 7.5 m. Pyrite is present in 3-4 mm veins (15-20 deg to c.a.) at 4.5 or in chunks at 12-12.15 m. Pegmatite are generally white or beige and quartzo feldspathic in composition. From 7.3-7.45 pegmatite contains 5-10% py in chunks. from 13.6 to 14.3 m: PHGN (no more garnet) and becomes fine grained and massive. No graphite in this section.
14.3	20.4	MGN	carb	5-20%	5-7 py po%	Mafic graphitic gneiss intermixed with decimetric marble zones (15.35-15.45 and 18.5-18.8 m). Mafic gneiss is fine grained and massive, dark green and contains 5-10 % gp from 14.3-16.3 and 15-25% from 16.3 -20.4. From 19.9 - 20.2 quartzo feldspathic pegmatite white to light salmon pink with 5-15% chlorite (crystals size = 45 mmm) . Marble zones are light to medium gray, medium grained with 5-10% green or light gray diopside. Marble zones have more or less gradational contact. At 18.5 m contact is fairly sharp with upper mafic gneiss and is perp to c.a.

20.4	34	MBR		5-15%	2-5 py%	Graphitic marble with minor decimetric QFGN zones at 22.3-23; 23.35-23.55; 26.6-27.2. These zones are not graphitic. Graphitic marble is dark gray and contains 5-10% flaky graphite; 10-15% diopside and 2-5% pyrite.
34	39	GTGN	MGN	up to 15-20% in mafic gneiss	5-15% py in chunks or veinlets.	Mixture of different gneisses, mostly garnet and phlogopite gneiss from 37-39 m; mafic dark green graphitic gneiss with sulphides from 35-35.7 m and fine grained quartzo feldspatic or phlogopite gneiss from 34-35 m and from 35.7-37 m. A carbonated decimetric zone in QFGN from 34.4-34.5 m. QFGN is fined grained and dark gray and contains 1-2% graphite. Mafic gneiss is blackish green and contains up to 20% gp and 15% sulphides. At 35.35-35.45: Graphite flakes and sulphides chunks are stretched and are mostly perp. To c.a. (local observation that do not apply to the whole unit.). from 38.5-39 phlogopite gneiss is enriched in graphite (almost pure graphite at contact with marble).
39	51	MBR	QFGN	2-5 except 49.3-51 (1-2%)	1-2 % py	Impure graphitic mable light to medium gray. Minor occurrence of salmon pink feldspar from 46.3-48.05 m (photo). 15-20% diopside + traces of blue green minerals and 1-2% py. From 46.5-48.05 = qfgn with some enriched zone of brown-beige micas near pegmatite contact at 47.9. (2-3% graphite, locally). From 47.9-48 = white pegmatite with graphite veinlets and chunks. From 49.2-51 : marble is light gray and slightly mineralized. diopsides are light green or beige (almost translucent).
51	55.3	QFGN	CARB	1-2%		Fine grained medium gray QFGN finely banded (70- perp. To c.a.) intermixed with medium grained marble (or carbonated zones). Carbonated zones are similar to 39-51 and contains 2-3% gp.

55.3	62	MGN	PHGN	up to 15-20% in mafic gneiss	up to 5-15% in mgn. In chunks or diss	Mafic graphitic gneiss intermixed with decimetric silicified and less graphitic rich zones and phlogopite gneiss (not mineralized). Minor (about 15-20 % of the unit centimetric carbonated zones are within mafic gneiss (relatively sharp contacts sub perp. to c.a.) Mafic gneiss is fine grained and massive, dark green and contains up to 20 % gp. phlogpote gneiss from 58.6-59 and 59.7-61 m : medium to coarse grained with 20-30% phlgopite and blueish qtz and feldspar.
62	69.3	MBR	PHGN	10 up to 25%	3-5% diss in marble	Graphitic impure marble with minor decimetric unmineralized (or slightly mineralized) QFGN or MGN zones at 63.45- 63.7; 64-64.5 m and 65-65.4 m; 68.5-68.7 m. Marble is dark gray and contains 10-25% graphite. From 60.8-69.3, the rock seems porous (photos). Marble is more porous but that texture is also observed in phlogopite gneiss although it is to a much lesser extent. Phlogopite gneiss may contain 5-10% olive green diopside. Contacts between marble and PHGN/MGN are sharp and at 65 deg to c.a.
69	72	QTZ		traces-1%		White, impure quartzite with minor centimetric QFGN. Traces of flaky graphite. 5-10% accessory minerals
72	82.1	QTZ	QFGN	traces-1%, locally	up to 10% locally (po in chunks)	Impure quartzite with 10-15% accessory minerals (green chlorite) intermixed with coarsed grained phlogopite gneiss. Quartzite is white to slightly blueish and From 72.7 to 76, phlogopite gneiss is dark blue with brownish purple phlogopite around qtz/feldsp dark blue clusters (photo). Gp flakes locally present. White beige and gray pegmatite from 79.7 to 80.1. From 78 to 82.1 phlogopite gneis is brown purplish and blueish gray, coarsed grained. Phlogopite is stretched from 81-82 m a dn form banding at 20-25 deg to c.a.

82.1	85.6	QFGN	QTZ	traces-1%, locally	10-15 in phgn%	Fine grained QFGN with minor zones of blueish quartzite and centimetric pegmatitic zones. QFGN is light brownish gray and contains coarser blueish quartz and 10-15% diss po. The whole unit is magnetic. Po also present as chunks (85-85.7 m) or small disc. veinlets. Quartzite is blue and contains stretched accessory minerals (10%). Pegmatites are qtz-feldsp and are also blue and light green (epidote ?). Peg also contains Po distributed around feldspar crystals which are about 1.5 cm in size.
85.6	93.4	QFGN	MBR	2-5% higher gp conc in MBR zones	5-10% with local chunks and veins in QFGN (mostly po)	Fine grained QFGN intermixed with decimetric marble intervals. Marble intervals are found at 86.38-86.56; 88.83-90.14; 90.5-91.4'91.9-92; 92.8-93;93.1-93.4. contacts are generally 45-60 deg to c.a. two minor centimetric MBR zones at 88.1-88.3m. QFGN is brownish gray and contains diss po or in chunks. One 1 cm wide po vein at 87 m , 70 deg to c.a. QFGN contains graphite flakes or some gp veins or veinlets, locally. At 88.6: 1 mm size gp vein at 45 deg to c.a.; at 91.4 and 91.5 Gp lumps (1 cm by 2 cm) (photos)
93.4	100.3	PHGN	QTZ	1-3% in QTZ and PHGN	up to 10-15% , locally in PHGN (98.8-99)	Impure light grayish blue quartzite interlayered with centimetric to decimetric bands of PHGN. Quartzite is scattered with several centimetric to decimetric bands (at 45 to c.a.)of fine grained QFGN or phlogopite rich thin bands. Stretched zone from 94.2-94.6 m forming well defined banding of phlogopite/qtz rich bands (at 30 deg to c.a.). Graphite flakes are locally present in QTZ and QFGN bands
100.3	111.8	QFGN	CARB/C SR	traces to 3% locally (some large flakes in pegmatitic zones. Higher gp content in marble horizons.	3-5% py po	Greenish gray px-bearing gneiss intermixed with marble zones. Gneiss is fine grained and massive with several pegmatitic zones at 103.5-104.3; 104.4-104.7; 105.17-105.26; 110.66-110.86. These pegmatitic zones contains 15-20% diopside; 5% brownish min (sphen?) in a white-beige matrix (feldspar). From 101-102.3 : gneiss is green and mostly composed of px and phlogopite (MGN). From 104 to 111 m fine grained gneiss is rather QFGN type as proportions of qtz and feldspar become the main constituents. Carbonated zones are light to medium grain in color, medium to coarse grained and contains 10-15% diopside (bubble shape) and traces of orange rounded mineral. Slightly mineralized with Some large graphite flakes (1-3%). Contacts with gneiss at 70 deg to c.a.

111.8	115.8	MGN	MBR	up to 15-25%, locally in MGN	up to 10-15% in mafic gneiss	Strongly mineralized Mafic gneiss interlayered with marble zones. From 113 to 113.4 m Injection of qtz and sulphides/gp along bands (photo). Deformed zone? Roughly at 30 deg to c.a then becomes at 70 deg at the end of deformed zone (113.4). Mafic gneiss is greenish black and contains 15-20% sulphides (po and py)
115.8	124.7	PHGN	QTZ		5% po diss or in 1-3 mm size veinlets	Fine grained px bearing gneiss with 5-10% phlogopite. Minor zone enriched in quartz/feldspar. Quartz is blueish. White, impure quartzite from 121.47 to 122.45. Contact qtz/gneiss at 50 deg to c.a. 5% accessory minerals stretched green diopside or chlorite and traces of py. PHGN is magnetic and contains 5-8% po/py mostly disseminated with some mm size veinlets (at 30-45 deg to c.a.) From 120.95-121.18 m pegmatitic zone in the PHGN with 0.5-1 cm diopside and sphene in white beige feldspar (similar as pegmatites in 100-111 interval).
124.7	135.3	PEG				White-geige pegmatite with qtz/feldspar and biotite. Biotite flakes becomes very large and more abundant from 132 to 135.3 with crystals up to 6-7 cm and in proportions up to 15-20%. Pegmatite has an orange salmon color with some light green zones (feldspar color) Quartz is mostly smokey appearance.
135.3	146.9	MGN	MBR	2-3% in MBR	traces -1%	Px bearing gneiss, grayish green and mostly massive, interlayered with marble zones (at 137.8- 139.7; 142.77-143.27). Looks like gneiss and marble underwent silicification as gneiss progressively becomes quartz-rich and harder from 136-4 to 137.8; 140-143.27. Contact with carbonated zones may be progressive (as from 137.8 to 138 m interval, HCL rx progressively increases in marble/gneiss) and generally sub perp. to c.a . Marble is medium to coarse grained and similar as 100-111 interval. Minor development of pegmatitic zones at 140. 5-140.6 m with 0.5 cm diopside in white beige feldspar matrix. From 145.4 to 146.9 = medium to coarse grained px gneiss (pxnite?). this gneiss is massive (no banding) and contains 15% sulphides. moderately magnetic although it looks like po.

147	152.65	PEG				same as 124-135 except presence of several veins from 149 to 152.65 m. Orange salmon and light greenish pegmatite with 15-20% smokey qtz, 60-65% feldspar and 5-10% dark brown biotite (up to 4 cm in size) and proportion up to 5-10% from 151-152.65. Several mm size qtz/sulphide veins either sub parallel to 30 deg to c.a.
152.65	158	PHGN/M GN	MBR	up to 15-20% in some mafic gneiss	up to 10-15 in highly graphitic zone%	Mafic gneiss partly strongly mineralized with intercalated marble zones (154.3-155.9 m plus miner centimetric zones distrubuted from 156.2 to 156.55). Mafic gneiss is strongly mineralized (up to 20-25% gp) from 153.5-154.3 and from 156.25-156.7 m (photos). Contacts MBR zones /gneiss at 70 deg to c.a. From 157-158 m, some mm (1 to 5-6 mm) size po veins at 30-45 deg to c.a.
158	160.43	QTZ	PEG			From 158-158.75 blueish quartzite with 5-10% phlogopite forming poorly developed banding. From 158.75-159 = medium to coarse grained marble with 1% flaky graphite and 10-15% bubbly diopside. Light greenish gray in color. From 159.13 to 160.43 = coarse grained to pegmatitic zone (qtz/feldspar /5-10% diopside and 3-4% sulphides (po chunks at 160.15-160.35
160.43	168.75	MGN/QF GN	Carb	1-2% gp small flake diss locally. 1 mm size gp vein at 168.75		Mafic to Quartzo-feldspathic gneiss intermixed with carbonated zones. Most significant and sharply defined zones are at 162.2-162.3; 163.7-164.8; 165.3-165.6 ; 166.5-166.6 m). Gneiss is light greenish gray and mostly fined grained and moderately developed banding is formed from 164.8 to 168.75 by carbonated zones lighter in color (beige). Banding and cabonated zones are at 50-60 deg to c.a. from 60.43-163.7 gneiss is dark greenish gray and more massive. From 161-162 m= several 1 mm size white carbonate/py veinlets parallel to each other at 50 deg to c.a. two large carb zones (163-164 and at 165) are coarse grained and salmon orange and gray. They are composed of calcite feldspar and 5-10% bubly green or light gray diopside.

168.75	171.4	QTZ	PEG		Bleuish impure qtz followed by pegmatite (same as 158-160...repetition?). Quartzite contains 25-30% chlorite and 2-3% phlogopite and 2-5% sulphides.. From 170.55 to 170.80 m = carbonated zone with 3-5% graphite. Dark green and light gray due to chloritization. From 170.85-171.05 a chlorite/calcite zone = from 170.85 to 171 m pure calcite at 30 deg to c.a., followed from 171-171-05 m by grinded chlorite/carb and graphite? from 171-171.4 = pegmatite. Pegmatite contains 0.5 cm size qtz and feldspar crystals with chlorite. Several 1-2 mm size veinlets are subparallel to each other at 50 deg to c.a.
171.4	177.8	QFGN/PH GN	carb	2-5 % po in chunks , locally. At 177.88: 1 cm disc. Po vein.	px/phlogopite bearing gneiss, fine grained and mostly massive or finely foliated (aligned or stretched phlogopite). Quartz is bleuish. Decimetric Carbonated zone 175.4-175.5 m sharp contacts at 30 deg to c.a. Not mineralized in gp. From 176-177.8 m phlogopite dominated gneiss, brown purplish in color 177.65 m . Some quartz/feldspar rich centimetric zones from 175-177.8 m
177.8	182.1	QTZ		.	dark greenish gray massive gneiss interlayered with blue impure quartzite or quartz rich zone at 177.8-178.6; 181.2-181.6 and several other centimetric intervals. From 179 - 180.2 = stretched and deofrmed zone with well developed banding ((179-179.3) defined by qtz band or a plogopite rich band about 10 cm from 179-179.1 Banding is at 45 deg to c.a. also from 179 -180m 3 centimetric carbonated zone light orange salmon and green in color. plastically deformed minerals from 179.95 to 180.17 m Graphite blob at 180.17m
182.1	193.6	QFGN	MBR	moderately mag in QFGN	QFGN gneiss (HCl rx), greenish gray, fine grained, mostly massive with finely laminated zone from 186.8-187 m (at 30-35 deg to c.a. then folded at 187.6-187.75 m). Intermixed with medium to coarse grained marble and carbonated zones. Marle zones are have sharp contacts whereas carbonated zones are more gradational. Graphite flakes are finely disseminated in gneiss (?). % may be higher than expected. Is it mafic gneiss that was silicified? Hard, vitreous rock but with lots of gp flakes disseminated?? (photo). From 185.5-185.8 m po zone: massive chunks 0.5 to 3-4 cm in size. Marbles zone medium to coarse grained light gray or white/beige at 184.4-184.7 m 190.2-190.6 and 191.28-191.62 m. Next to marble intervals at 191 m graphite veins or chunks are present in the adjacent fined grainded gneiss . one 0.5 cm disc. gp vein or chunk at 191.2 m (photos). Yeux de qtz 'a 193.1-193.2
					traces up to 5%. In small flakes in carb QFGN

193.6	201	MBR	3-5% in marble; 1% in QFGN	1-3% in MBR: 3- 5% in QFGN	Medium to coarse grained impure marble (193.-198.5 m) intermixed with fine grained greenish gray decimetric layers of QFGN. Marble is blueish gray and contains 10% light gray diopside, 3-5 % large graphite flakes and 2-3% sulphides. It contains decimetric (10-20 cm) layers of fined grained QFGN. Contacts MBR/QFGN bands are at 60-70 deg to c.a. From 197.3-197,5 a 2 mm size carb vein sub parallel to c.a. From 197.5-201 m: fine grained QFGN with decimetric layers of marble. QFGN contains 3-5 % sulphides (po/py). at 200.2 a 2-3 mm po veinlets is at 50 deg to c.a. Carbonated layers in QFGN are found at 199.69-199-81 and 200.26-200.60 m. QFGN same as described in interval 182.1-193 m.
		QFGN			

EOH

Buckingham Project		Hole:	Contractor: RJLL	Date : start : 2018-01-31 end: 2018-02-01
CKR Carbon Corp.		CK17-10		
Easting: 459343	Total Length:			
Northing: 5053852	144			
UTM Nad 1983, Zone 18		Azimuth: 115°	Dip: 45°	Isabelle Robillard, P.Geo
				OGQ#287

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	2.9	OB				casing
2.9	11	PHGN	PEG	traces	5-8% in px dominated gneiss	Mostly medium to coarse grained phlogopite bearing gneiss with variable amounts of px and qtz-feldspar. Decimetric layers of pegmatite at 5.8-6.57; 6.88-6.95; 7.63-7.75; 8.37-9.23 m. PHGN is fine grained from 6 to 9.8 m and is dark green in color with higher (5-8%) sulphide contents (mostly po). A cm carbonated zone, orange salmon in color is found between 9.45-9.5 m. From 6.4-6.57 diopside and sphene crystals (0.5 cm) were noted.
11	20.3	PHGN	QFGN		5-7% mostly py	Mostly fine grained phlogopite bearing QFGN with several quartz-rich zones. Quartz rich zones are blueish in color and form banding at 50 deg at to c.a. Some cm phlogopite rich bands are observed from 12.7-13.8 m. From 16 to 20 m core is fractured (16-16.5; 18-18.75 have most of the core in 6-10 cm fragments. Chlorite and py are found in fractures. Multiple angles : mostly 45 or sub parallel to c.a. from 18.3-18.5 m gn has a yellowish color and with 10-15% py (either diss. or in veinlets). 1 mm size veinlets at 45 or subperp. to c.a.).

20.3	26	QTZ	PHGN	traces in qtz; 3-5% in PHGN	Impure quartzite intermixed with phlogopite bearing gneiss or phlogopite rich bands (mostly at 45 deg to c.a.). Quartzite is white to light bleuish gray. PHGN form centimetric bands in quartzite. From 25.6 to 26 m , PHGN is fine to medium grained and contains 5-10% phlogopite 5-7% diss. sulphides (py po).
26	31.4	GTGN			Medium to coarse grained garnet bearing gneiss. From 26-29.1 dark purplish brown in color with 2-4% red/pink garnet (small individual rounded crystals about 3-4 mm in size. Quartz-rich 4-5 mm bands (quartz is blue) define fairly well developed banding in this interval at 70 deg to c.a. From 29.1-31.4 : quartz is not blue and unit is purplish brown and white in color. 1-2% red/pink garnet. From 30.3-30.55: white QTZ-feldspar pegmatite with smaller qtz grains between large crystals (looks like a metagglomerate). Rock is heavily fractured from 30.5-31.1 m
31.4	37.3	GTGN	QTZ	1-2%	Fine medium grained light gray and pink garnet gneiss intermixed with quartzite of same color. The whole unit is very hard and seem to be silicified. GTGN contains up to 25% pink garnet which tend to form clusters and be distributed roughly along bands. From 34.33 to 34.95 light pinkish gray quartzite with 5% pink garnet (2-3 mm in size) and 5% chlorite, and 1-2% pyrite. Rock is broken in small pieces from 34.2-34.5 m and from 31.4 to 32.4 m. Chlorite and py in fractures. metrage a été approximé car erreur dans les bouts de bois. At 34.4 and 36.3 Rock is fractured sub parallel to c.a. with chlorite and py in fracture. Graphite flakes 1-2% are present from 32 m downward in both qtz and GTGN.

37.3	44.8	GTGN	QTZ	traces up to 2%	Garnet paragneiss intermixed with more or less pure quartzite horizons. Garnet paragneiss is generally coarse grained and vary from blueish gray pinkish to light gray. It contains up to 15-20% garnet 1-2% graphite flakes up to 5-10% from 39-39.4 m. Quartzite (37.6-38.54; 40.2-40.85 and 44.3-44.84) is white or blueish gray and pink (44-45) and contains garnet chlorite, traces of sulphides and gp flakes. At 44.7 m, a cluster of garnet and chlorite shows graphite flakes surrounding garnet crystals (photo). like interstitial graphite. At 40.5 m quartzite unit becomes highly stretched (mylonite like). ductile deformation? From 41.8 to 44.8 m ,GTGN is interlayered with fine grained and massive brownish gray GTGN (no graphite mineralization in these horizons).
44.8	54.8	GTGN		traces to 1% gp	Medium to coarse grained garnet gneiss. dark green and pink with blueish quartz (40%) and phlogopite (15-20%). Garnet up to 30-35% of the rock. Rock is dotted with garnet clusters 0.5 -1 cm in size. Minor 7-8 cm horizons of fine grained and massive QFGN about 5% of the unit). from 50.9 to 51.24 : qtz-felds pegmatite (0.5 cm crystals) white and green with several py veinlets and some po chunks. From 53.1-53.6 m : gtgn is lighter in color (silicified?) and garnet (10%) forms large clusters (up to 2-3 cm) is more lilac in color and is surrounded by py and gp filonnets.
54.8	62.3	GTGN	dfz	up to 3-4% locally.	From 54.80-57m, strongly deformed zone (sheared minerals) with fine grained zones (55-55.4 and 56-56.1 m) forming fine banding perp. To c.a. Fine grained and greenish gray/purplish brown in color. Injected with greenish white and orange/salmon pegmatite from 55.4-56.7 m from 56.7-57 m = 10-15% py and 2-3% gp in veinlets and chunks. Underformed interval is PHGN purplish brown and white with greenish zone (chloritization?). 15-20% PHlogopite, 2-3% small (1-2 mm size) garnet hardly visible (like altered to phlogopite). From 56.1 to 57 and from 58.8 to 59.45, rock is broken in small pieces or at each 5 to 10 cm segment (poor rqd).
62.3	67.1	GTGN	MBR	20-25% in MBR and adjacent MGN	GTGN from 62.3 to 64. Light greenish gray and pinkish GTGn looks highly stretched from 62.3-62.7 then becomes strongly chloritized from 63.4 to 64.1 and broken in small pieces. Broken part is filled with chlorite/carbonate/pyrite and 1-2% gp. From 64.1 to 65.2 dark green mafic gneiss with up to 20-25% graphite and 5% py mostly in small 1-2 mm size veinlets (70-80 deg to c.a). From 65.2-67.1 graphitic marble dark gray with 20-25% graphite, Cut by a decimetric white pegmatite 66.4 to 66.67 (traces of large gp flakes) in pegmatite

67.1	71	GTGN	QTZ	1-3% locally chunk at 69.7 m	Phlogopite (25%) and garnet (2-5%) gneiss purplish brown and white in color and medium to coarse grained.. White quartzite from 68.9-69.15 m. Garnet is hardly visible (2-4 mm size rounded grains surrounded by phlogopite). Phlogopite and white qtz/feldspar form moderately defined banding (mostly at 50 deg to c.a.).
71	80.35	QTZ	PHGN	traces py in qtz, 2-4% po in PHGN, finely diss. Or in veins.	Quartzite with 5% accessory minerals with phlogopite fine grained gneiss (74.8 - 75.6) m. Quartzite is white from 71 to 74.8 mand contains mm or cm bands or phlogopite rich gneiss at 50 deg to c.a. which are more frequent from 73 to 74.8 m. From 75.6-81 quartzite become blueish (darker blue with increasing depth). At 75.07 and 75.22 mm size carb/po veinlets at 45 deg to c.a. At 79.1-79.3 and 79.8-80.24 light gray and white pegmatites 1.5 cm size crystals (qtz and feldspar). Po veinlets and chunks at 79.95-80.
80.35	84.13	QTGN	MGN	1-3 % locally in GTGN; 20-25% from 83.4 to 84.1	Purplish brown and white garnet bearing gneiss. Blue quartz from 80-82 m. then becomes white or beige. Moderately defined banding at 50 deg to c.a. From 83-84.1 gneiss becomes slightly carbonated, dark green in color and contains 20-25% graphite and 10% po. at 83.8 po veinlet (2-4 mm) at 70 deg to c.a. From 83.65-84 very carbonated (marble aspect with bubbly diopside) although HCL rx is only weak to moderate.
84.1	90.3	QFGN	PEG	1 % locally, higher content up to 2-3% in carb. Horizons.	Phlogopite bearing (5%) QFGN gneiss, mostly fine grained and massive with centimetric carbonated horizons at 84.7-84.95; 85.4-85.53; 85.7-85.9 and 87.9 (2cm). Brownish gray in color. Carbonated horizons are medium to coarse grained, light gray or orange salmon dotted with green diopside (5-10%). From 86.3 - 87.2 m white beige and green pegmatite with 5-10% green tabular diopside (up to 2cm long), sphene?). From 84.1 to 84.57 white and light gray pegmatite like interval 71-80 m.

90.3	97.05	MGN	GTGH	.			Fine grained dark gray gneiss alternating with qtz-phlgopite rich horizons at 90.6-91.25; 93.6-95.5. Fine grained gneiss is banded (60 deg to c.a.) and contains one carbonated zone from 92.5-92.7 m. at 91.25; 91.76;92.75; 93.13 :from 2-10 cm in width of highly graphitic (20-25%) mafic gneiss. At 96.4; 96.85; cm bands with high conc. of garnet (6-8 cm in width). These garnet rich bands also contains higher conc of sulphides en graphite. At 94.81 = one 7-8 mm wide pyrite/gp vein coated with 1 to 3 mm of graphite on each side. Very straight en regular at 30 deg. to c.a.(photo).
97.05	103	GTGN/PH GN	QTZ	traces- up to 3% locally. Associated with GT	up to 8-10% po ass. With blue ph/gt gneiss layer		Phlogopite and garnet bearing gneiss intermixed with quartz-rich layer or quartzite. Quartz in this unit vary in color from white to blue with maximum blue intensity from 99.4 to 100.3 m. Quartz-rich or quartzite layer (as defined by % of accessory minerals) are found at 97.15-97.44; 97.6-98.2; 98.8-99.25 and 100.3 at 101.45. Intervals are arbitrary as contact are gradational with several cm bands of either phlogopite rich or garnet/phlogopite bands. Po chunks from 98.45-98.6 m and 99.65-100.15. m up to 8-10%. Rock is fractured from 102.5-103 m.
103	105.85	PHGN		mostly traces - 3% up to 20% in mafic gneiss.	up to 10% in mafic gneiss		Purplish brown and white garnet bearing gneiss. Greenish and heavily fractured from 103 to 104.6 m. From 104.6. From 104.6-104.82 marble layer with contacts at 45 deg to c.a. From 104.85-105 m : mafic gneiss of graphitic rich mafic gneiss . From 105-105.85 quartz-rich interval with 0.5 cm wide mafic bands at 45 deg to c.a. from 105-105.3. Some of these thin bands are graphitic (15-20%). Quartz-rich unit is not graphitic and contains 5% phlogopite.
105.85	111.76	QFGN		traces gp specs visible from 111- 111.76 m.			Fine grained diopside bearing QFGN intermixed with coarse grained zone (106.4-108 m) with 10-15% tabular diopside and sphene (+5% sulphides, locally at 107.85) in a white beige matrix (CSR?). QFGN is greenish gray and contains 5-10% diopside; 5% sulphides (py?) and 2-3% orange rounded mineral (humite? Vesuvianite?). Very hard and vitreous look (silicified or calc silicate rock?)

111.76	126	QFGN	MBR	traces.	Fine grained QFGN intermixed with decimetric or metric marble horizons. QFGN is brownish gray and contains 5-10% diopside. Marble horizons are found between 113.15-114.5; 121.10-123.45 and 125.4 -125.8 m. They are coarse grained, light gray to orange salmon in color and contains 10-15% green diopside, light orange feldspar and traces of orange rounded and slightly adamantin mineral (humite?). First marble horizon is light gray in color and contains less than 5% orange feldspar. It is slightly graphitic (1-2%). No graphite observed in other marble which contain higher prop. of orange feldspar. QFGN is intermixed with several cm bands of carbonated layers which define banding at 70-80 deg to c.a.
126	131.1	QFGN		2-3 diss.%	Fine grained medium gray QFGN mostly massive or locally banded with cm carbonated zones (mostly at 70 deg to c.a.). Coarse horizon from 130.4-130.9 m. Carbonated horizon vary in width from 1 to 9 cm and are medium to coarse grained and white/beige in color. very hard and silicified look (until EOH).
131.1	136	QFGN	CSR		Fine grained medium gray QFGN mostly massive and contains several cm bands of carbonated zones (mostly at 50-60 deg to c.a.). From 133.1 to 133.9 m : orange salmon carb. Zone (very weak rx to HCl). From 134.9-135.34 = pegmatitic unit light gray contains 5-1% diopside and 2-5% sphene through the whole unit. Diopside and sphene become porphyritic (1 to 2 cm large crystals) from 134.9- 135.3 m (photo).
136	144				Fine grained QFGN intermixed with cm or decimetric carbonated zones. At 137.63 : one cm wide carb vein at 30 deg to c.a. same as 111-126 m.
EOH at 144					

Buckingham Project		Hole:	Contractor: RJLL	Date : start : 2018-02-01 end: 2018-02-02
CKR Carbon Corp.		CK17-11		
Easting: 459765		Total Length: 141		
Northing: 5053685				
UTM Nad 1983, Zone 18		Azimuth: 320°	Dip: 45°	Isabelle Robillard, P.Geo OGQ#287

From	To	Lith1	Lith2	Cg % Visual Estimate	Sulphide %	Lithological Description
0	4.9	OB				casing
5.5	15	MGN	PEG			Dark green mafic gneiss with minor pegmatite zones (5-5.2 ; 8.7-8.95; 10.25-10.5 and 14.4-15 m). Mafic gneiss is mostly composed of px and is fine to medium grained. Pegmatite contains altered feldspar and phlogopite. The whole unit seems heavily chloritized. From 11 to 14.5 the rock is porous (crumbly?) and lighter in color (sericitization?). Carbonated 3-4 mm vein sub parallel to ca. at 5.05 m. Rock is fractured locally with chlorite / carb/py filling fractures.
15	20.4	PHGN	PEG			Fine grained phlogopite gneiss, brownish gray in color and massive. Intercalated with cm pegmatites (15.24-15.28; 17.55-17.65 and other minor cm pegmatite from 18.5 to 19 m). From 15-15.3 appear silicified and locally chloritized (dark green veins associated with carb). From 15.5-16.1 : unit is soft chloritized and sericitized (aspect poudreux). At 17.4 a cm quartz vein associated with carb/chl/sulph (a po chunk). Pegmatites are white beige and contains 5% porphyritic diopside (0.5 cm) and 3-5% sulphides (po). From 19.75-20.4 : quartz rich layer (impure Qtzite?) with blueish quartz and po chunk, locally (20.14 m).
19.75	28.7	DFZ	QFGN			Fine to medium grained silicified and chloritized gneiss with minor coarser grained zones with augen quartz. The whole unit is ductively deformed and coarser zones shows highly stretched minerals with Qtz augen. From 23 to 24.3 and 26.25-26.5 m : 5-8% po/py and chlorite chunks or veinlets mixed with carb and py (photos). Gneiss is banded locally, as defined by phlogopite-rich mm or cm layers (mostly perp. to c.a.). Coarser graind zone contains 55% Qtz and chlorite/phlogopite (20.55-21 ; 21.8; 22.3; 26.5-26.65; 26.84-26; 27.85-28). From 27.25-27.7 = 1 mm py veinlet mostly sub parallel to ca.

28.7	35.4	QFGN	3-8% with a massive zone from 30.85-31.1	Phlogopite bearing fine grained QFGN massive or with fine foliation. From 30.8-31 massive po + py zone at the surface of the core, associated with carbonates (photo) and chlorite. Carbonate vein (1-2 cm thick) from 30.8 to 31.15 (sub parallel to c.a). From 33 - 33.85 the rock becomes light greenish gray and lo heavily chloritized (similar as interval 23-24 m). 5-10% sulphides (py and po) either diss small chunks or associated with carb zones (network veinlets with chlorite chunks). From 33.85-35.4 rock becomes lighter in color and changes from light greenish gray to light brown/purplish gray. sericite? At 35.05 carb veins, one subparallel and a 4-5 mm at 50 deg to c.a. Three decimetric coarse grained quartz rich zone from 28.7 to 29.25 m.
35.4	37.5	CSR	1-2% diss py	altered zone (leached color): light pinkish gray to light greenish gray. The whole unit is carbonated (strong HCl rx). From 35.4 to 37, pegmatitic rock whit 15-20 % gray-pinkish porphyritic (0.5-1.5 cm) mineral (diopside?) and one hexagonal prismatic crystals (about 0.5 cm long) was observed at 36.4 (apatite?).
37.5	44	PHGN	traces, locally (1 mm size gp vein at 42.67 m).	Dark urplish brown phlogopite (5-10%) QFGN with minor quartz-rich cm zones forming more or less well defined banding (at 30 deg to ca). Quartz is blue from 39.5 to 43.6. From 39 to 40 m rock is moderately fractured with associated chlorite and py. 7-8 mm Carb vein at 40 deg to c.a. at 39-39.1 m. From 42.25 to 43, coarse grained qtz rich horizon , fractured. At 42.67 fractured is coated with gp. (gp vein at 30 deg to ca.).
44	50.8	QFGN	traces, locally (one large flake at 45 m)	light greenish gray fined grained QFGN with quartz-rich coarser zones. 3-5% diss py/po with scattered po or py chunks. Some chloritic veinlets associated with carbonate and py. At 50m : at 70 deg to ca. At 50.35 m : at 20 deg to c.a. From 44 to 50 chlorite/carb/py fracture are mostly at 45 deg to ca.
50.8	59.7	QFGN	traces up to 2-3% from 53-53.5 m and 2-5% from 57.65-58 m.	5-7% py associated with gp rich horizon From 50-53.7 : medium to dark gray fine grained rock (QFGN?) with small graphite flakes from 52.25 to 53.75 m. Intercalated with quartz rich zone. Py and Po chunks, locally. Quartz is blue from 53.8 to 54.1 m. The whole unit (especially from 55 and lower is traversed by several mm carbonate veins and the whole unit react moderately with HCl. At 59.34 : a 2-3 mm carb/chlorite/py vein subparallel to c.a.

59.7	68.44	PHGN	PEG	traces		Carbonated and chloritized QFGN with phlogopite rich horizons and minor cm coarse grained qtz-rich bands. Light brownish or greenish gray in color with maximum leached aspect from 65.75-66.25 m. From 66.28-66.78 and 66.85-66.05 = qtz-feldsp, light gray Pegmatites. From 62.3-62.66 chlorite/carb py veinlets (2-3 mm) sub parallel to c.a. Banding, as defined by coarse-qtz rich layer and phlogopite is generally 60-70 deg to ca. phlogopite gneiss (30-40% phlogopite) from 63.7 to 65.7 m. this interval is purplish brown and fine grained (not so much altered). Intensity of alteration vary. This horizon also contains a quartz rich layer with augen quartz (stretched minerals) from 64.1-64.25 m.
68.44	76.7	MBR	QFGN	1-2% up to 15-20 % from 69-70.7 m	1-2%	Impure Marble interlayered with phlogopite bearing and px bearing QFGN (QFGN at 72.1-72.75 and 74.5-74.9 m). . Marble is medium to coarse grained and contains variable gp contents/diopside/orange salmon feldspar. From 68.5 to 68.9 marble is banded and contains up to 25-30% rounded dark green diopside. Banding is at 50 deg to c.a. Graphitic dark gray marble from 69-70.7 m. From 71-76.7 m, marble is chloritized and orange feldspar content increases (10-25%), diopside is 5-10% and traces of small rounded mineral of orange color (adamantine luster) ...humite?
76.7	85.55	MBR	MGN	1-3% up to 15-20% in MGN	up to 10-15 (mostly py) in MGN	Dark green or black mafic gneiss interlayered with a marble horizon from 79.6 to 84.1 From 76.7 to 79.6: mafic gneiss is graphitic with rich gp zones (20-25% gp) associated with 10-15% sulphides (mostly py). Rock is fine grained and sulphides are distributed along thin bands at 50-60 deg to c.a. Marble horizon is medium grained and contains 3-7% gp from 79.6-81.05. Then becomes greenish in color (chloritized) and contains much less gp (1-2%) with 5-10% diopside and 5% salmon orange feldspar and 3-5% sulphides. Chlorite/carb veins at 81.7 and 82.25 at 15 deg to c.a. From 84.1-85.55 mafic gneiss, dark green and medium grained with 40-50% px. This interval is not graphitic.
85.5	88.7	QFGNor QTZ		1-2% small flakes%		Light gray, banded QFGN (banding at 45 deg to c.a. Mostly composed of qtz and coarse grained with aphanitic cm bands, blueish gray in color. Contains 1-3% chlorite, 3-5% phlogopite and traces of sulphides and 1% small graphite flakes regularly diss in the unit.

88.7	95.4	QFGN	MGN	1% small flakes	1-2% po	greenish gray to blueish gray medium grained phlogopite bearing (5% phlogopite) QFGN intermixed with finer grained, phlogopite-rich layers or px rich gneiss. px rich gneiss zones are at 90.1-90.9 m and 92-92.5 m. Contains 1-2% po either in small chunks or associated with chlorite veins (at 90.5 m ; 30 deg to ca). Pegmatite from 94.2-94.46. From 93.1-93.7 px rich gneiss intermixed with the pegmatite. Pegmatite is white beige and green and contains feldspar csts Up to 2 cm in size.
95.4	102.2	QFGN		1 -3 with higher content in phlogopite banded gneiss%		gray to blueish gray quartz rich gneiss with phlogopite layer (5-10% phlogopite) from 99.4 to 100.2 . QFGN is small to medium grained and is banded with qtz-chlorite (yellowish beige blobs) mm to cm bands (at 50-60 deg to c.a.). The unit consistently contains 1% small gp flakes. Phlogopite layer is locally banded with phlogopite rich bands (also at 50-60 deg to c.a.) and contains higher prop. of gp flakes up to 3-5%. from 102-102.2 : 1 mm car/chlorite veinlet at 15 deg to c.a.
102.2	105	DBS				diabase: black fine grained rock Broken (almost grinded) in very small pieces from 103-103.75 m.
105	108.7	GTGN	QTZ	traces to 1-2% locally (in broken chloritic zone)	Up to 5-8% py po from 105 to 106	Garnet and phlogopite bearing gneiss interlayered with a light gray slightly blueish quartzite from 106-108.5 m. Broken from 106.5-106.7 : chlorite mixed with py and graphite. Garnet and Ph gneiss contains
108.7	111	MGN		traces	2-5 %	Green fine grained gneiss intermixed with GTGN. MGN is found at 109-110 and 110.6-111 m. White Pegmatite from 110.4-110.6 m. GTGN contains 5% pink garnet and 10-15% phlogopite commonly surrounding garnet grains. Pegmatite width at 109.4, 1.5 cm wide and at 40 deg to c.a.
			GTGN			
111	117.8	GTGN		traces-1-2% locally		Purplish brown and white GTGN with 5-10% pink garnet and 15-20% phlogopite. Garnet crystals are pink, a few mm in size except local zones where they form clusters up to 1-2 cm (photo). Large gp flakes (1-2 mm) are locally present (1-2%..up to 5% from 111.8-111.9 m. gp content tends to be higher when garnet form large clusters and is also associated with higher proportions of sulphides (po) in this particular type of mineralization. This unit is moderately banded with elongated garnet/phlogopite at 45 deg to c.a.

117.8	123.85	QFGN	QTZ			Fine grained and massive QFGN intermixed with impure quartzite. QFGN is brownish gray in color. Chloritized and carbonated from 117.85 to 118.65 (more greenish in color). One 2-3 mm size carb/chlorite veinlet sub parallel to c.a. from 117.9-118.1 m. Quartzite is light pinkish gray and contains 3-5% 3-4 mm size garnets with traces of gp and sulphides. Unit is moderately fractured (from 117.8 to 122 m) with broken core every 10-15 cm . Fractured filled with chlorite and py. a few mm size sulphide (py) veins from 123-123.4 m (either at 30 or 70 deg to c.a.). Quartzite unit from 118.9 to 119.6 is bordered by 10 cm zones of green and orange salmon rock. Two Centimetric porphyritic diopside/sphene (CSR) at 119.8-119.9m . At 119 m is superimposed a 10 cm zone of several bands of chlorite or white calcite zones at 20 deg to c.a.
123.85	129.5	MBR	PEG	1-2% locally	traces	Light green and white, medium to coarse grained impure marble. Contains 10% yellow-green to green diopside, traces of orange mm size grained min (humite) and 5% salmon orange feldspar. Traces, up to 1% large size (2mm) gp flakes. Lower contact at 129.5 is well defined and is at 45 deg to c.a. From 123.85-124.46 quartz rich unit, light gray and pegmatitic.
129.5	135.65	QFGN	qtz	traces up to 1-2% locally.		Blueish green QFGN strongly chloritized, interlayered with decimetric quartzite zones (133.7-134.17; . Mostly fine grained and massive.From 131-132.5 several py/chlorite veinlets (py) and a white calcite zone (from 132. 36-132.43 m). Quartzite is blueish and contains 5-15 % chlorite with 5% sulphides and traces of gp.
135.65	141	GTGN	QTZ	small flakes 1% up to 3% at 139.85-140.25		Garnet and phlogopite gneiss interlayered with impure quartzite zones. Impure quartzite contains 5-10% chlorite. At 137; 137.3 and 140 mm : 2-3 mm carb/chlorite/py veinlets at 15 deg to c.a. Garnet gneiss contains 2-3 mm size garnet (5%) surrounded with phlogopite)10-15%).

at 141 EOH

APPENDIX 4

2017-2018 Diamond Drilling Program

Assay Results

Drill hole	sample id	from	to	Interval	CG
CK17-01	58201	17	18	1.0	0.14
CK17-01	58202	18	19	1.0	1.16
CK17-01	58203	19	20	1.0	0.46
CK17-01	58204	20	21	1.0	0.28
CK17-01	58205	21	22	1.0	0.33
CK17-01	58206	22	23	1.0	0.78
CK17-01	58207	23	24	1.0	1.17
CK17-01	58208	24	25	1.0	1.52
CK17-01	58209	25	26	1.0	0.35
CK17-01	58210	26	27	1.0	0.90
CK17-01	58211	27	28	1.0	0.69
CK17-01	58213	28	29	1.0	1.91
CK17-01	58214	29	30	1.0	2.05
CK17-01	58215	30	31	1.0	1.99
CK17-01	58216	31	32	1.0	2.82
CK17-01	58217	32	33	1.0	1.68
CK17-01	58218	33	34	1.0	1.85
CK17-01	58219	34	35	1.0	0.99
CK17-01	58220	52	53	1.0	1.07
CK17-01	58222	53	54	1.0	2.49
CK17-01	58223	54	55	1.0	2.78
CK17-01	58224	55	56	1.0	2.07
CK17-01	58225	56	57	1.0	4.71
CK17-01	58226	57	58	1.0	2.04
CK17-01	58227	58	59	1.0	0.73
CK17-01	58228	59	60	1.0	2.56
CK17-01	58229	60	61	1.0	2.20
CK17-01	58230	61	62	1.0	1.67
CK17-01	58231	62	63	1.0	2.44
CK17-01	58232	63	64	1.0	6.28
CK17-01	58234	64	65	1.0	1.38
CK17-01	58235	65	66	1.0	3.01
CK17-01	58236	66	67	1.0	1.95
CK17-01	58237	67	68	1.0	1.59
CK17-01	58238	68	69	1.0	1.46
CK17-01	58239	69	70	1.0	0.97
CK17-01	58240	70	71	1.0	1.69
CK17-01	58241	71	72	1.0	2.15
CK17-01	58242	72	73	1.0	2.26
CK17-01	58243	73	74	1.0	1.75
CK17-01	58245	74	75	1.0	1.72
CK17-01	58246	75	76	1.0	1.74
CK17-01	58247	76	77	1.0	2.26
CK17-01	58248	77	78	1.0	1.88
CK17-01	58249	78	79	1.0	1.94
CK17-01	58250	79	80	1.0	3.43

Drill hole	sample id	from	to	Interval	CG
CK17-01	58252	80	81	1.0	3.67
CK17-01	58253	81	82	1.0	1.49
CK17-01	58254	82	83	1.0	8.82
CK17-01	58255	83	84	1.0	5.03
CK17-01	58257	84	85	1.0	0.33
CK17-01	58258	85	86	1.0	1.02
CK17-01	58259	86	87	1.0	3.11
CK17-01	58260	87	88	1.0	2.90
CK17-01	58261	88	89	1.0	1.83
CK17-01	58262	89	90	1.0	1.75
CK17-01	58263	90	91	1.0	2.02
CK17-01	58264	91	92	1.0	2.08
CK17-01	58265	92	93	1.0	1.56
CK17-01	58266	93	94	1.0	2.05
CK17-01	58268	94	95	1.0	4.78
CK17-01	58269	95	96	1.0	7.98
CK17-01	58270	96	97	1.0	13.00
CK17-01	58271	97	98	1.0	12.90
CK17-01	58272	98	99	1.0	16.30
CK17-01	58273	99	100	1.0	4.35
CK17-01	58274	100	101	1.0	1.24
CK17-01	58275	101	102	1.0	0.95
CK17-01	58276	102	103	1.0	2.50
CK17-01	58277	103	104	1.0	5.40
CK17-01	58279	104	105	1.0	14.30
CK17-01	58280	105	106	1.0	3.90
CK17-01	58281	106	107	1.0	<0.05
CK17-01	58282	107	108	1.0	0.64
CK17-02	58283	9	10	1.0	0.86
CK17-02	58284	10	11	1.0	1.51
CK17-02	58285	11	12	1.0	3.54
CK17-02	58286	12	13	1.0	12.40
CK17-02	58287	13	14	1.0	5.81
CK17-02	58288	14	15	1.0	2.82
CK17-02	58290	15	16	1.0	3.31
CK17-02	58291	16	17	1.0	7.38
CK17-02	58292	17	18	1.0	3.74
CK17-02	58293	18	19	1.0	7.55
CK17-02	58294	19	20	1.0	6.25
CK17-02	58295	20	21	1.0	6.63
CK17-02	58296	21	22	1.0	9.35
CK17-02	58297	22	23	1.0	22.00
CK17-02	58298	23	24	1.0	25.70
CK17-02	58299	24	25	1.0	14.80
CK17-02	58301	25	26	1.0	15.60
CK17-02	58302	26	27	1.0	25.50

Drill hole	sample id	from	to	Interval	CG
CK17-02	58303	27	28	1.0	26.10
CK17-02	58304	28	29	1.0	22.20
CK17-02	58305	29	30	1.0	13.10
CK17-02	58306	30	31	1.0	7.44
CK17-02	58307	31	32	1.0	1.81
CK17-02	58308	32	33	1.0	2.62
CK17-02	58309	33	34	1.0	2.49
CK17-02	58310	34	35	1.0	2.29
CK17-02	58312	35	36	1.0	2.06
CK17-02	58313	36	37	1.0	2.76
CK17-02	58314	37	38	1.0	1.00
CK17-02	58316	38	39	1.0	0.71
CK17-02	58317	39	40	1.0	1.16
CK17-02	58318	40	41	1.0	1.31
CK17-02	58319	41	42	1.0	2.32
CK17-02	58320	42	43	1.0	2.01
CK17-02	58321	43	44	1.0	1.77
CK17-02	58322	44	45	1.0	2.07
CK17-02	58324	45	46	1.0	2.14
CK17-02	58325	46	47	1.0	1.32
CK17-02	58326	47	48	1.0	1.39
CK17-02	58327	48	49	1.0	0.90
CK17-02	58328	49	50	1.0	1.85
CK17-02	58329	50	51	1.0	2.57
CK17-02	58330	51	52	1.0	1.23
CK17-02	58331	52	53	1.0	8.13
CK17-02	58332	53	54	1.0	18.20
CK17-02	58333	54	55	1.0	7.36
CK17-02	58335	55	56	1.0	1.62
CK17-02	58336	56	57	1.0	2.03
CK17-02	58337	57	58	1.0	1.75
CK17-02	58338	58	59	1.0	2.02
CK17-02	58339	59	60	1.0	6.26
CK17-02	58340	60	61	1.0	2.43
CK17-02	58341	61	62	1.0	3.10
CK17-02	58342	62	63	1.0	1.96
CK17-02	58343	63	64	1.0	2.12
CK17-02	58344	64	65	1.0	1.80
CK17-02	58345	65	66	1.0	8.90
CK17-02	58347	66	67	1.0	8.72
CK17-02	58348	67	68	1.0	2.96
CK17-02	58349	68	69	1.0	2.75
CK17-02	58350	69	70	1.0	0.91
CK17-02	58352	70	71	1.0	0.14
CK17-02	58353	71	72	1.0	1.58
CK17-02	58354	72	73	1.0	7.18

Drill hole	sample id	from	to	Interval	CG
CK17-02	58355	73	74	1.0	3.30
CK17-02	58356	74	75	1.0	3.43
CK17-02	58358	75	76	1.0	14.90
CK17-02	58359	76	77	1.0	20.20
CK17-02	58360	77	78	1.0	12.50
CK17-02	58361	78	79	1.0	3.06
CK17-02	58362	79	80	1.0	4.47
CK17-02	58363	80	81	1.0	9.24
CK17-02	58364	81	82	1.0	3.58
CK17-02	58365	82	83	1.0	0.20
CK17-02	58366	83	84	1.0	5.97
CK17-02	58367	84	85	1.0	12.10
CK17-02	58369	85	86	1.0	10.50
CK17-02	58370	86	87	1.0	6.85
CK17-02	58371	87	88	1.0	2.45
CK17-02	58372	88	89	1.0	0.81
CK17-02	58373	89	90	1.0	6.77
CK17-02	58374	90	91	1.0	2.94
CK17-02	58375	91	92	1.0	1.85
CK17-02	58376	92	93	1.0	7.93
CK17-02	58377	93	94	1.0	15.90
CK17-02	58378	94	95	1.0	7.18
CK17-02	58380	95	96	1.0	1.33
CK17-02	58381	96	97	1.0	1.59
CK17-03	58382	9	10	1.0	0.21
CK17-03	58383	10	11	1.0	0.75
CK17-03	58384	11	12	1.0	0.10
CK17-03	58385	12	13	1.0	0.26
CK17-03	58386	13	14	1.0	10.80
CK17-03	58387	14	15	1.0	5.41
CK17-03	58388	15	16	1.0	10.70
CK17-03	58389	16	17	1.0	1.67
CK17-03	58391	17	18	1.0	1.02
CK17-03	58392	18	19	1.0	1.92
CK17-03	58393	19	20	1.0	2.28
CK17-03	58394	20	21	1.0	2.12
CK17-03	58395	21	22	1.0	1.52
CK17-03	58396	22	23	1.0	2.25
CK17-03	58397	23	24	1.0	2.29
CK17-03	58398	24	25	1.0	2.14
CK17-03	58399	25	26	1.0	0.72
CK17-03	58400	26	27	1.0	0.88
CK17-03	58403	27	28	1.0	0.76
CK17-03	58404	28	29	1.0	0.35
CK17-03	58405	29	30	1.0	1.08
CK17-03	58406	30	31	1.0	0.88

Drill hole	sample id	from	to	Interval	CG
CK17-03	58407	31	32	1.0	0.82
CK17-03	58408	32	33	1.0	0.77
CK17-03	58409	33	34	1.0	1.93
CK17-03	58410	34	35	1.0	1.68
CK17-03	58411	35	36	1.0	5.10
CK17-03	58412	36	37	1.0	3.56
CK17-03	58414	37	38	1.0	4.23
CK17-03	58415	38	39	1.0	2.13
CK17-03	58416	39	40	1.0	3.11
CK17-03	58417	40	41	1.0	3.09
CK17-03	58418	41	42	1.0	2.88
CK17-03	58419	42	43	1.0	2.75
CK17-03	58420	43	44	1.0	3.07
CK17-03	58421	44	45	1.0	6.84
CK17-03	58422	45	46	1.0	1.68
CK17-03	58423	46	47	1.0	1.90
CK17-03	58425	47	48	1.0	1.41
CK17-03	58426	48	49	1.0	0.87
CK17-03	58427	49	50	1.0	1.24
CK17-03	58428	50	51	1.0	2.12
CK17-03	58429	51	52	1.0	1.57
CK17-03	58430	52	53	1.0	1.87
CK17-03	58431	53	54	1.0	1.52
CK17-03	58432	54	55	1.0	1.75
CK17-03	58433	55	56	1.0	2.18
CK17-03	58434	56	57	1.0	3.17
CK17-03	58436	57	58	1.0	2.99
CK17-03	58437	58	59	1.0	2.40
CK17-03	58438	59	60	1.0	1.73
CK17-03	58439	60	61	1.0	0.14
CK17-03	58440	107	108	1.0	0.10
CK17-03	58441	108	109	1.0	1.80
CK17-03	58443	109	110	1.0	0.55
CK17-03	58444	110	111	1.0	1.32
CK17-03	58445	111	112	1.0	1.52
CK17-03	58447	112	113	1.0	0.34
CK17-03	58448	113	114	1.0	0.79
CK17-03	58449	114	115	1.0	4.10
CK17-03	58450	115	116	1.0	3.24
CK17-03	30051	116	117	1.0	2.59
CK17-03	30052	117	118	1.0	1.89
CK17-03	30053	118	119	1.0	0.81
CK17-03	30054	119	120	1.0	0.62
CK17-03	30055	120	121	1.0	0.08
CK17-03	30056	121	122	1.0	<0.05
CK17-03	30058	122	123	1.0	<0.05

Drill hole	sample id	from	to	Interval	CG
CK17-03	30059	123	124	1.0	<0.05
CK17-03	30060	124	125	1.0	<0.05
CK17-03	30061	125	126	1.0	<0.05
CK17-03	30062	126	127	1.0	<0.05
CK17-03	30063	127	128	1.0	0.07
CK17-03	30064	128	129	1.0	0.27
CK17-03	30065	129	130	1.0	0.63
CK17-03	30066	130	131	1.0	0.91
CK17-03	30067	131	132	1.0	0.56
CK17-03	30069	132	133	1.0	0.94
CK17-03	30070	133	134	1.0	0.47
CK17-03	30071	134	135	1.0	0.40
CK17-03	30072	135	136	1.0	0.22
CK17-03	30073	136	137	1.0	0.19
CK17-03	30074	137	138	1.0	0.79
CK17-03	30075	138	139	1.0	1.15
CK17-03	30076	139	140	1.0	1.60
CK17-03	30077	140	141	1.0	2.16
CK17-03	30078	141	142	1.0	3.30
CK17-03	30080	142	143	1.0	4.23
CK17-03	30081	143	144	1.0	4.01
CK17-03	30082	144	145	1.0	0.71
CK17-03	30083	145	146	1.0	0.18
CK17-03	30084	146	147	1.0	0.08
CK17-03	30085	147	148	1.0	1.34
CK17-03	30086	148	149	1.0	1.31
CK17-03	30087	149	150	1.0	1.04
CK17-03	30088	150	151	1.0	0.54
CK17-03	30089	151	152	1.0	0.16
CK17-03	30091	152	153	1.0	0.60
CK17-03	30092	153	154	1.0	1.40
CK17-03	30093	154	155	1.0	1.57
CK17-03	30094	155	156	1.0	1.15
CK17-03	30095	156	157	1.0	0.41
CK17-03	30096	157	158	1.0	1.37
CK17-03	30097	158	159	1.0	1.26
CK17-03	30098	159	160	1.0	1.38
CK17-03	30099	160	161	1.0	0.70
CK17-03	30100	161	162	1.0	0.99
CK17-03	30102	162	163	1.0	0.90
CK17-03	30103	162	163	1.0	0.67
CK17-04	30166	5	6	1.0	18.10
CK17-04	30167	6	7	1.0	6.19
CK17-04	30168	7	8	1.0	3.70
CK17-04	30169	8	9	1.0	21.30
CK17-04	30170	9	10	1.0	12.40

Drill hole	sample id	from	to	Interval	CG
CK17-04	30171	10	11	1.0	9.86
CK17-04	30172	11	12	1.0	12.80
CK17-04	30174	12	13	1.0	3.41
CK17-04	30175	13	14	1.0	3.05
CK17-04	30176	14	15	1.0	9.99
CK17-04	30177	15	16	1.0	16.30
CK17-04	30178	16	17	1.0	19.10
CK17-04	30179	17	18	1.0	18.10
CK17-04	30180	18	19	1.0	9.06
CK17-04	30181	19	20	1.0	10.60
CK17-04	30182	20	21	1.0	7.11
CK17-04	30183	21	22	1.0	3.79
CK17-04	30185	22	23	1.0	4.20
CK17-04	30186	23	24	1.0	0.22
CK17-04	30187	24	25	1.0	1.09
CK17-04	30188	25	26	1.0	1.56
CK17-04	30189	26	27	1.0	0.86
CK17-04	30190	27	28	1.0	1.72
CK17-04	30191	28	29	1.0	1.30
CK17-04	30192	29	30	1.0	3.07
CK17-04	30193	30	31	1.0	2.03
CK17-04	30194	31	32	1.0	2.85
CK17-04	30195	32	33	1.0	1.38
CK17-04	30197	33	34	1.0	0.71
CK17-04	30198	34	35	1.0	0.72
CK17-04	30200	36	37	1.0	0.07
CK17-04	30201	37	38	1.0	3.19
CK17-04	30202	38	39	1.0	1.15
CK17-04	30203	39	40	1.0	1.88
CK17-04	30204	40	41	1.0	3.28
CK17-04	30205	41	42	1.0	0.19
CK17-04	30206	42	43	1.0	1.50
CK17-04	30207	43	44	1.0	0.10
CK17-04	30208	44	45	1.0	1.05
CK17-04	30209	45	46	1.0	1.72
CK17-04	30210	46	47	1.0	1.58
CK17-04	30211	47	48	1.0	1.88
CK17-04	30212	48	49	1.0	1.75
CK17-04	30213	49	50	1.0	2.72
CK17-04	30214	50	51	1.0	1.15
CK17-04	30215	51	52	1.0	1.12
CK17-04	30216	52	53	1.0	2.32
CK17-04	30217	53	54	1.0	1.96
CK17-04	30219	54	55	1.0	3.79
CK17-04	30220	55	56	1.0	1.50
CK17-04	30221	56	57	1.0	0.38

Drill hole	sample id	from	to	Interval	CG
CK17-04	30222	57	58	1.0	2.80
CK17-04	30223	58	59	1.0	19.30
CK17-04	30224	59	60	1.0	3.90
CK17-04	30225	60	61	1.0	0.17
CK17-04	30226	61	62	1.0	0.14
CK17-04	30227	62	63	1.0	0.08
CK17-04	30228	63	64	1.0	0.44
CK17-04	30230	64	65	1.0	3.60
CK17-04	30231	65	66	1.0	6.25
CK17-04	30232	66	67	1.0	1.25
CK17-04	30233	67	68	1.0	10.10
CK17-04	30234	68	69	1.0	11.80
CK17-04	30235	71	72	1.0	0.26
CK17-04	30236	69	70	1.0	6.47
CK17-04	30237	70	71	1.0	0.79
CK17-04	30238	72	73	1.0	16.60
CK17-04	30239	73	74	1.0	1.73
CK17-04	30240	74	75	1.0	16.30
CK17-04	30241	75	76	1.0	13.30
CK17-04	30243	76	77	1.0	0.27
CK17-04	30244	77	78	1.0	1.13
CK17-04	30245	78	79	1.0	0.61
CK17-04	30247	97	98	1.0	0.42
CK17-04	30248	98	99	1.0	7.91
CK17-04	30249	99	100	1.0	8.21
CK17-04	30250	100	101	1.0	1.28
CK17-04	30038	101	102	1.0	2.67
CK17-04	30039	102	103	1.0	1.95
CK17-04	30040	103	104	1.0	2.44
CK17-04	30042	104	105	1.0	2.86
CK17-04	30043	105	106	1.0	0.64
CK17-04	30044	106	107	1.0	0.71
CK17-04	30045	107	108	1.0	0.71
CK17-04	30046	108	109	1.0	1.40
CK17-04	30047	109	110	1.0	0.44
CK17-04	30048	110	111	1.0	2.20
CK17-04	30049	111	112	1.0	0.91
CK17-04	30050	112	113	1.0	0.90
CK17-04	152902	113	114	1.0	2.23
CK17-04	152903	114	115	1.0	2.63
CK17-04	152905	115	116	1.0	1.34
CK17-04	152906	116	117	1.0	0.83
CK17-04	152907	117	118	1.0	0.97
CK17-04	152908	118	119	1.0	0.85
CK17-04	152909	119	120	1.0	0.64
CK17-04	152910	120	121	1.0	0.81

Drill hole	sample id	from	to	Interval	CG
CK17-04	152911	121	122	1.0	0.90
CK17-04	152912	122	123	1.0	1.25
CK17-04	152913	123	124	1.0	1.50
CK17-04	152914	124	125	1.0	0.13
CK17-04	152916	125	126	1.0	<0.05
CK17-04	152917	126	127	1.0	<0.05
CK17-04	152918	127	128	1.0	0.87
CK17-04	152919	128	129	1.0	1.00
CK17-04	152920	129	130	1.0	0.88
CK17-04	152921	130	131	1.0	1.35
CK17-04	152922	131	132	1.0	1.53
CK17-04	152923	132	133	1.0	0.89
CK17-04	152924	133	134	1.0	0.76
CK17-04	152925	134	135	1.0	1.51
CK17-04	152926	135	136	1.0	0.80
CK17-04	152927	136	137	1.0	1.07
CK17-04	152929	137	138	1.0	0.48
CK17-04	152930	138	139	1.0	0.76
CK17-04	152931	139	140	1.0	1.24
CK17-04	152932	140	141	1.0	1.02
CK17-04	152933	141	142	1.0	1.24
CK17-04	152934	142	143	1.0	1.96
CK17-04	152935	143	144	1.0	0.43
CK17-04	152936	144	145	1.0	0.15
CK17-04	152937	145	146	1.0	0.08
CK17-04	152938	146	147	1.0	0.10
CK17-04	152940	147	148	1.0	1.20
CK17-04	152941	148	149	1.0	0.69
CK17-04	152942	149	150	1.0	0.18
CK17-04	152943	150	151	1.0	0.16
CK17-04	152944	151	152	1.0	0.07
CK17-04	152945	152	153	1.0	<0.05
CK17-04	152946	153	154	1.0	0.12
CK17-04	152947	154	155	1.0	0.91
CK17-04	152948	155	156	1.0	1.45
CK17-04	152949	156	157	1.0	3.44
CK17-04	152952	157	158	1.0	6.09
CK17-04	152953	158	159	1.0	6.25
CK17-04	152954	159	160	1.0	16.10
CK17-04	152955	160	161	1.0	5.34
CK17-04	152956	161	162	1.0	14.00
CK17-04	152957	162	163	1.0	8.57
CK17-04	152958	163	164	1.0	8.49
CK17-04	152959	164	165	1.0	11.30
CK17-04	152960	165	166	1.0	8.78
CK17-04	152961	166	167	1.0	7.71

Drill hole	sample id	from	to	Interval	CG
CK17-04	152963	167	168	1.0	9.32
CK17-04	152964	168	169	1.0	4.33
CK17-04	152965	169	170	1.0	3.96
CK17-04	152966	170	171	1.0	15.10
CK17-04	152967	171	172	1.0	16.20
CK17-04	152968	172	173	1.0	15.80
CK17-04	152969	173	174	1.0	6.99
CK17-04	152970	174	175	1.0	2.48
CK17-04	152971	175	176	1.0	10.40
CK17-04	152972	176	177	1.0	2.83
CK17-04	152974	177	178	1.0	10.40
CK17-04	152975	178	179	1.0	13.00
CK17-04	152976	179	180	1.0	12.50
CK17-04	152977	180	181	1.0	9.86
CK17-04	152978	181	182	1.0	12.00
CK17-04	152979	182	183	1.0	12.10
CK17-04	152980	183	184	1.0	7.24
CK17-04	152981	184	185	1.0	5.34
CK17-04	152982	185	186	1.0	5.97
CK17-04	152983	186	187	1.0	11.80
CK17-04	152985	187	188	1.0	13.20
CK17-04	152986	188	189	1.0	13.30
CK17-04	152987	189	190	1.0	13.40
CK17-04	152988	190	191	1.0	20.40
CK17-04	152989	191	192	1.0	19.70
CK17-04	152990	192	193	1.0	10.60
CK17-04	152991	193	194	1.0	7.66
CK17-04	152992	194	195	1.0	6.14
CK17-04	152993	195	196	1.0	8.55
CK17-04	152994	196	197	1.0	4.81
CK17-04	152996	197	198	1.0	1.86
CK17-04	152997	198	199	1.0	7.13
CK17-04	152998	199	200	1.0	1.71
CK17-04	152999	200	201	1.0	1.45
CK17-04	153000	201	202	1.0	1.69
CK17-04	27502	202	203	1.0	0.70
CK17-04	27503	203	204	1.0	<0.05
CK17-05	27504	48	49	1.0	<0.05
CK17-05	27505	49	50	1.0	1.51
CK17-05	27506	50	51	1.0	2.61
CK17-05	27508	51	52	1.0	2.73
CK17-05	27509	52	53	1.0	2.75
CK17-05	27510	53	54	1.0	3.32
CK17-05	27511	54	55	1.0	2.48
CK17-05	27512	55	56	1.0	4.19
CK17-05	27513	56	57	1.0	4.51

Drill hole	sample id	from	to	Interval	CG
CK17-05	27514	57	58	1.0	12.70
CK17-05	27515	58	59	1.0	12.80
CK17-05	27516	59	60	1.0	12.00
CK17-05	27517	60	61	1.0	18.60
CK17-05	27518	61	62	1.0	5.84
CK17-05	27520	62	63	1.0	0.22
CK17-05	27521	63	64	1.0	3.30
CK17-05	27522	64	65	1.0	7.00
CK17-05	27523	65	66	1.0	4.62
CK17-05	27524	66	67	1.0	10.50
CK17-05	27525	67	68	1.0	5.17
CK17-05	27526	68	69	1.0	4.37
CK17-05	27527	69	70	1.0	4.65
CK17-05	27528	70	71	1.0	3.66
CK17-05	27529	71	72	1.0	3.54
CK17-05	27530	72	73	1.0	3.37
CK17-05	27532	73	74	1.0	2.91
CK17-05	27533	74	75	1.0	2.76
CK17-05	27534	75	76	1.0	2.63
CK17-05	27535	76	77	1.0	3.14
CK17-05	27536	77	78	1.0	2.56
CK17-05	27537	78	79	1.0	2.60
CK17-05	27538	79	80	1.0	2.14
CK17-05	27539	80	81	1.0	3.83
CK17-05	27540	81	82	1.0	3.84
CK17-05	27542	82	83	1.0	3.31
CK17-05	27543	83	84	1.0	2.46
CK17-05	27544	84	85	1.0	16.60
CK17-05	27545	85	86	1.0	21.50
CK17-05	27546	86	87	1.0	17.50
CK17-05	27547	87	88	1.0	1.85
CK17-05	27548	88	89	1.0	1.32
CK17-05	27549	89	90	1.0	0.88
CK17-05	27550	90	91	1.0	1.11
CK17-05	27552	91	92	1.0	1.05
CK17-05	27553	92	93	1.0	0.62
CK17-05	27554	93	94	1.0	0.37
CK17-05	27556	94	95	1.0	1.03
CK17-05	27557	95	96	1.0	1.64
CK17-05	27558	96	97	1.0	0.59
CK17-05	27559	97	98	1.0	2.15
CK17-05	27560	98	99	1.0	5.70
CK17-05	27561	99	100	1.0	0.21
CK17-05	27562	100	101	1.0	0.38
CK17-05	27563	101	102	1.0	0.82
CK17-05	27564	102	103	1.0	0.57

Drill hole	sample id	from	to	Interval	CG
CK17-05	27565	112	113	1.0	0.19
CK17-05	27566	113	114	1.0	2.53
CK17-05	27568	114	115	1.0	2.63
CK17-05	27569	115	116	1.0	4.33
CK17-05	27570	116	117	1.0	1.14
CK17-05	27571	117	118	1.0	0.73
CK17-05	27572	118	119	1.0	0.72
CK17-05	27573	119	120	1.0	0.72
CK17-05	27574	120	121	1.0	1.26
CK17-05	27575	121	122	1.0	0.68
CK17-05	27576	122	123	1.0	0.94
CK17-05	27577	123	124	1.0	2.13
CK17-05	27579	124	125	1.0	1.90
CK17-05	27580	125	126	1.0	1.06
CK17-05	27581	126	127	1.0	0.86
CK18-06	B00029601	23	24	1.0	0.06
CK18-06	B00029602	24	25	1.0	4.28
CK18-06	B00029603	25	26	1.0	1.88
CK18-06	B00029604	26	27	1.0	1.71
CK18-06	B00029605	27	28	1.0	0.73
CK18-06	B00029606	28	29	1.0	2.18
CK18-06	B00029607	29	30	1.0	0.85
CK18-06	B00029608	30	31	1.0	1.76
CK18-06	B00029609	31	32	1.0	0.74
CK18-06	B00029610	32	33	1.0	0.58
CK18-06	B00029611	33	34	1.0	0.39
CK18-06	B00029613	34	35	1.0	0.49
CK18-06	B00029614	35	36	1.0	1.83
CK18-06	B00029615	36	37	1.0	1.87
CK18-06	B00029616	37	38	1.0	3.19
CK18-06	B00029617	38	39	1.0	0.82
CK18-06	B00029618	39	40	1.0	0.14
CK18-07	B00027619	30	31	1.0	0.10
CK18-07	B00027620	31	32	1.0	2.04
CK18-07	B00027621	32	33	1.0	0.33
CK18-07	B00027622	33	34	1.0	0.39
CK18-07	B00027624	34	35	1.0	0.10
CK18-07	B00027625	35	36	1.0	0.39
CK18-07	B00027626	36	37	1.0	0.81
CK18-07	B00027627	37	38	1.0	0.86
CK18-07	B00027628	38	39	1.0	1.10
CK18-07	B00027629	39	40	1.0	1.32
CK18-07	B00027630	40	41	1.0	0.52
CK18-07	B00027631	41	42	1.0	0.95
CK18-07	B00027632	42	43	1.0	1.13
CK18-07	B00027634	43	44	1.0	0.20

Drill hole	sample id	from	to	Interval	CG
CK18-07	B00027635	44	45	1.0	0.67
CK18-07	B00027636	45	46	1.0	0.14
CK18-07	B00027637	46	47	1.0	0.22
CK18-07	B00027638	47	48	1.0	1.56
CK18-07	B00027639	48	49	1.0	0.82
CK18-07	B00027640	49	50	1.0	0.50
CK18-07	B00027641	50	51	1.0	11.00
CK18-07	B00027642	51	52	1.0	6.13
CK18-07	B00027644	52	53	1.0	10.90
CK18-07	B00027645	53	54	1.0	2.03
CK18-07	B00027646	54	55	1.0	1.96
CK18-07	B00027647	55	56	1.0	1.86
CK18-07	B00027648	56	57	1.0	3.06
CK18-07	B00027649	57	58	1.0	12.40
CK18-07	B00027651	58	59	1.0	21.20
CK18-07	B00027652	59	60	1.0	14.40
CK18-07	B00027653	60	61	1.0	17.90
CK18-07	B00027654	61	62	1.0	22.40
CK18-07	B00027656	62	63	1.0	22.90
CK18-07	B00027657	63	64	1.0	19.30
CK18-07	B00027658	64	65	1.0	16.50
CK18-07	B00027659	65	66	1.0	14.80
CK18-07	B00027660	66	67	1.0	15.00
CK18-07	B00027661	67	68	1.0	14.20
CK18-07	B00027662	68	69	1.0	16.20
CK18-07	B00027663	69	70	1.0	16.90
CK18-07	B00027664	70	71	1.0	14.70
CK18-07	B00027665	71	72	1.0	17.90
CK18-07	B00027667	72	73	1.0	18.00
CK18-07	B00027668	73	74	1.0	14.50
CK18-07	B00027669	74	75	1.0	10.30
CK18-07	B00027670	75	76	1.0	5.67
CK18-07	B00027671	76	77	1.0	3.04
CK18-07	B00027672	77	78	1.0	3.43
CK18-07	B00027673	78	79	1.0	2.53
CK18-07	B00027674	79	80	1.0	1.66
CK18-07	B00027675	80	81	1.0	2.95
CK18-07	B00027676	81	82	1.0	3.52
CK18-07	B00027678	82	83	1.0	12.50
CK18-07	B00027679	83	84	1.0	7.89
CK18-07	B00027680	84	85	1.0	12.50
CK18-07	B00027681	85	86	1.0	14.60
CK18-07	B00027682	86	87	1.0	0.98
CK18-07	B00027683	87	88	1.0	0.52
CK18-07	B00027684	88	89	1.0	1.30
CK18-07	B00027685	89	90	1.0	0.46

Drill hole	sample id	from	to	Interval	CG
CK18-07	B00027686	90	91	1.0	1.00
CK18-07	B00027688	91	92	1.0	1.18
CK18-07	B00027689	105	106	1.0	0.09
CK18-07	B00027690	106	107	1.0	0.78
CK18-07	B00027691	107	108	1.0	2.52
CK18-07	B00027692	108	109	1.0	0.80
CK18-07	B00027693	109	110	1.0	0.48
CK18-07	B00027694	110	111	1.0	1.71
CK18-07	B00027695	111	112	1.0	1.10
CK18-07	B00027696	112	113	1.0	3.09
CK18-07	B00027697	113	114	1.0	14.60
CK18-07	B00027698	114	115	1.0	0.23
CK18-07	B00027701	115	116	1.0	0.40
CK18-07	B00027702	116	117	1.0	2.38
CK18-07	B00027703	117	118	1.0	3.68
CK18-07	B00027704	118	119	1.0	3.57
CK18-07	B00027705	119	120	1.0	5.35
CK18-07	B00027706	120	121	1.0	3.72
CK18-07	B00027707	121	122	1.0	2.81
CK18-07	B00027708	122	123	1.0	2.51
CK18-07	B00027709	123	124	1.0	0.96
CK18-07	B00027711	124	125	1.0	0.03
CK18-07	B00027712	132	133	1.0	0.03
CK18-07	B00027713	133	134	1.0	3.53
CK18-07	B00027714	134	135	1.0	13.00
CK18-07	B00027715	135	136	1.0	5.35
CK18-07	B00027716	136	137	1.0	5.46
CK18-07	B00027717	137	138	1.0	3.21
CK18-07	B00027718	138	139	1.0	5.08
CK18-07	B00027719	139	140	1.0	6.51
CK18-07	B00027720	140	141	1.0	14.40
CK18-07	B00027722	141	142	1.0	14.40
CK18-07	B00027723	142	143	1.0	12.40
CK18-07	B00027724	143	144	1.0	5.00
CK18-07	B00027725	144	145	1.0	5.87
CK18-07	B00027726	145	146	1.0	3.36
CK18-07	B00027727	146	147	1.0	0.72
CK18-07	B00027728	147	148	1.0	1.32
CK18-08	B00027728	45	46	1.0	1.32
CK18-08	B00027729	46	47	1.0	10.30
CK18-08	B00027730	47	48	1.0	9.69
CK18-08	B00027731	48	49	1.0	15.70
CK18-08	B00027733	49	50	1.0	13.90
CK18-08	B00027734	50	51	1.0	15.80
CK18-08	B00027735	51	52	1.0	7.70
CK18-08	B00027736	52	53	1.0	2.28

Drill hole	sample id	from	to	Interval	CG
CK18-08	B00027737	53	54	1.0	1.50
CK18-08	B00027738	54	55	1.0	1.72
CK18-08	B00027739	55	56	1.0	1.70
CK18-08	B00027740	56	57	1.0	2.05
CK18-08	B00027741	57	58	1.0	1.98
CK18-08	B00027742	58	59	1.0	2.79
CK18-08	B00027744	59	60	1.0	4.47
CK18-08	B00027745	60	61	1.0	3.15
CK18-08	B00027746	61	62	1.0	2.40
CK18-08	B00027747	62	63	1.0	2.41
CK18-08	B00027748	63	64	1.0	1.93
CK18-08	B00027749	64	65	1.0	1.13
CK18-08	B00027750	65	66	1.0	1.35
CK18-08	B00027751	66	67	1.0	0.91
CK18-08	B00027752	67	68	1.0	0.43
CK18-08	B00027753	68	69	1.0	0.18
CK18-08	B00027755	88	89	1.0	0.34
CK18-08	B00027756	89	90	1.0	0.32
CK18-08	B00027757	90	91	1.0	0.46
CK18-08	B00027758	91	92	1.0	0.44
CK18-08	B00027759	92	93	1.0	0.92
CK18-08	B00027760	93	94	1.0	1.18
CK18-08	B00027761	94	95	1.0	0.91
CK18-08	B00027762	95	96	1.0	2.05
CK18-08	B00027763	96	97	1.0	1.62
CK18-08	B00027764	97	98	1.0	1.80
CK18-08	B00027766	98	99	1.0	2.03
CK18-08	B00027767	99	100	1.0	2.46
CK18-08	B00027768	100	101	1.0	6.47
CK18-08	B00027769	101	102	1.0	10.00
CK18-08	B00027770	102	103	1.0	11.20
CK18-08	B00027771	103	104	1.0	14.70
CK18-08	B00027772	104	105	1.0	22.90
CK18-08	B00027773	105	106	1.0	22.50
CK18-08	B00027774	106	107	1.0	9.02
CK18-08	B00027775	107	108	1.0	2.09
CK18-08	B00027777	108	108.7	0.7	1.48
CK18-08	B00027778	110	111	1.0	6.49
CK18-08	B00027779	113	114	1.0	0.57
CK18-08	B00027780	114	115	1.0	0.37
CK18-08	B00027781	115	116	1.0	0.46
CK18-08	B00027782	116	117	1.0	0.88
CK18-08	B00027783	117	118	1.0	0.45
CK18-09	B00027784	6	7	1.0	0.21
CK18-09	B00027785	7	8	1.0	1.61
CK18-09	B00027786	8	9	1.0	0.76

Drill hole	sample id	from	to	Interval	CG
CK18-09	B00027787	9	10	1.0	1.26
CK18-09	B00027789	10	11	1.0	1.93
CK18-09	B00027790	11	12	1.0	1.93
CK18-09	B00027791	12	13	1.0	1.11
CK18-09	B00027792	13	14	1.0	1.04
CK18-09	B00027793	14	15	1.0	1.14
CK18-09	B00027794	15	16	1.0	5.98
CK18-09	B00027795	16	17	1.0	10.70
CK18-09	B00027796	17	18	1.0	2.52
CK18-09	B00027797	18	19	1.0	13.00
CK18-09	B00027798	19	20	1.0	18.90
CK18-09	B00027801	20	21	1.0	13.30
CK18-09	B00027802	21	22	1.0	12.90
CK18-09	B00027803	22	23	1.0	2.15
CK18-09	B00027804	23	24	1.0	4.05
CK18-09	B00027805	24	25	1.0	4.51
CK18-09	B00027806	25	26	1.0	7.54
CK18-09	B00027807	26	27	1.0	4.90
CK18-09	B00027808	27	28	1.0	2.75
CK18-09	B00027809	28	29	1.0	4.47
CK18-09	B00027810	29	30	1.0	9.65
CK18-09	B00027812	30	31	1.0	17.80
CK18-09	B00027813	31	32	1.0	13.10
CK18-09	B00027814	32	33	1.0	5.63
CK18-09	B00027815	33	34	1.0	11.00
CK18-09	B00027816	34	35	1.0	6.72
CK18-09	B00027817	35	36	1.0	3.59
CK18-09	B00027818	36	37	1.0	1.64
CK18-09	B00027819	37	38	1.0	3.42
CK18-09	B00027820	38	39	1.0	4.02
CK18-09	B00027821	39	40	1.0	5.14
CK18-09	B00027823	40	41	1.0	2.08
CK18-09	B00027824	41	42	1.0	2.58
CK18-09	B00027825	42	43	1.0	5.03
CK18-09	B00027826	43	44	1.0	5.42
CK18-09	B00027827	44	45	1.0	2.85
CK18-09	B00027828	45	46	1.0	6.52
CK18-09	B00027829	46	47	1.0	7.28
CK18-09	B00027830	47	48	1.0	2.05
CK18-09	B00027831	48	49	1.0	4.81
CK18-09	B00027832	49	50	1.0	2.04
CK18-09	B00027834	50	51	1.0	1.67
CK18-09	B00027835	51	52	1.0	1.59
CK18-09	B00027836	52	53	1.0	1.38
CK18-09	B00027837	53	54	1.0	1.24
CK18-09	B00027838	54	55	1.0	1.30

Drill hole	sample id	from	to	Interval	CG
CK18-09	B00027839	55	56	1.0	2.20
CK18-09	B00027840	56	57	1.0	6.85
CK18-09	B00027841	57	58	1.0	5.36
CK18-09	B00027842	58	59	1.0	6.63
CK18-09	B00027843	59	60	1.0	5.58
CK18-09	B00027845	60	61	1.0	1.71
CK18-09	B00027846	61	62	1.0	7.58
CK18-09	B00027847	62	63	1.0	4.86
CK18-09	B00027848	63	64	1.0	4.70
CK18-09	B00027849	64	65	1.0	5.03
CK18-09	B00027850	65	66	1.0	5.95
CK18-09	B00027851	66	67	1.0	1.99
CK18-09	B00027852	67	68	1.0	7.03
CK18-09	B00027853	68	69	1.0	8.41
CK18-09	B00027854	69	70	1.0	3.06
CK18-09	B00027855	70	71	1.0	0.43
CK18-09	B00027857	71	72	1.0	0.29
CK18-09	B00027858	87	88	1.0	0.39
CK18-09	B00027859	88	89	1.0	1.23
CK18-09	B00027860	89	90	1.0	1.41
CK18-09	B00027861	90	91	1.0	2.23
CK18-09	B00027862	91	92	1.0	1.58
CK18-09	B00027863	92	93	1.0	1.19
CK18-09	B00027864	93	94	1.0	0.92
CK18-09	B00027865	94	95	1.0	0.69
CK18-09	B00027866	95	96	1.0	0.94
CK18-09	B00027868	96	97	1.0	0.72
CK18-09	B00027869	97	98	1.0	0.94
CK18-09	B00027870	98	99	1.0	0.38
CK18-09	B00027871	99	100	1.0	0.65
CK18-09	B00027872	100	101	1.0	1.21
CK18-09	B00027873	101	102	1.0	0.15
CK18-09	B00027874	102	103	1.0	1.01
CK18-09	B00027875	103	104	1.0	0.95
CK18-09	B00027876	104	105	1.0	0.69
CK18-09	B00027877	105	106	1.0	1.08
CK18-09	B00027879	106	107	1.0	1.23
CK18-09	B00027880	107	108	1.0	1.76
CK18-09	B00027881	108	109	1.0	1.43
CK18-09	B00027882	109	110	1.0	1.71
CK18-09	B00027883	110	111	1.0	1.27
CK18-09	B00027884	111	112	1.0	1.88
CK18-09	B00027885	112	113	1.0	9.17
CK18-09	B00027886	113	114	1.0	5.01
CK18-09	B00027887	114	115	1.0	4.93
CK18-09	B00027888	115	116	1.0	5.54

Drill hole	sample id	from	to	Interval	CG
CK18-09	B00027890	116	117	1.0	10.20
CK18-09	B00027891	117	118	1.0	0.88
CK18-09	B00027892	137	138	1.0	0.70
CK18-09	B00027893	138	139	1.0	1.70
CK18-09	B00027894	139	140	1.0	1.69
CK18-09	B00027895	140	141	1.0	0.90
CK18-09	B00027896	141	142	1.0	0.54
CK18-09	B00027897	142	143	1.0	0.13
CK18-09	B00027898	143	144	1.0	0.35
CK18-09	B00027899	144	145	1.0	0.26
CK18-09	B00027901	145	146	1.0	3.03
CK18-09	B00027902	152	153	1.0	0.03
CK18-09	B00027903	153	154	1.0	3.77
CK18-09	B00027904	154	155	1.0	11.40
CK18-09	B00027905	155	156	1.0	1.89
CK18-09	B00027906	156	157	1.0	5.69
CK18-09	B00027907	157	158	1.0	0.20
CK18-09	B00027908	158	159	1.0	0.41
CK18-09	B00027909	159	160	1.0	0.35
CK18-09	B00027910	160	161	1.0	0.29
CK18-09	B00027911	161	162	1.0	0.09
CK18-09	B00027912	162	163	1.0	0.67
CK18-09	B00027914	163	164	1.0	0.54
CK18-09	B00027915	164	165	1.0	0.03
CK18-09	B00027916	165	166	1.0	0.28
CK18-09	B00027917	166	167	1.0	0.79
CK18-09	B00027918	167	168	1.0	0.73
CK18-09	B00027919	168	169	1.0	0.90
CK18-09	B00027920	169	170	1.0	0.16
CK18-09	B00027921	170	171	1.0	0.94
CK18-09	B00027922	177	178	1.0	0.11
CK18-09	B00027923	178	179	1.0	0.50
CK18-09	B00027925	179	180	1.0	0.37
CK18-09	B00027926	180	181	1.0	0.94
CK18-09	B00027927	181	182	1.0	0.26
CK18-09	B00027928	182	183	1.0	1.52
CK18-09	B00027929	183	184	1.0	1.46
CK18-09	B00027930	184	185	1.0	0.76
CK18-09	B00027931	185	186	1.0	1.08
CK18-09	B00027932	186	187	1.0	1.41
CK18-09	B00027933	187	188	1.0	1.44
CK18-09	B00027934	188	189	1.0	1.92
CK18-09	B00027936	189	190	1.0	1.74
CK18-09	B00027937	190	191	1.0	1.02
CK18-09	B00027938	191	192	1.0	1.13
CK18-09	B00027939	192	193	1.0	1.50

Drill hole	sample id	from	to	Interval	CG
CK18-09	B00027940	193	194	1.0	2.11
CK18-09	B00027941	194	195	1.0	1.90
CK18-09	B00027942	195	196	1.0	2.16
CK18-09	B00027943	196	197	1.0	2.40
CK18-09	B00027944	197	198	1.0	2.30
CK18-09	B00027945	198	199	1.0	1.80
CK18-09	B00027946	199	200	1.0	1.48
CK18-09	B00027948	200	201	1.0	1.08
CK18-10	B00027949	31	32	1.0	0.87
CK18-10	B00027951	32	33	1.0	1.17
CK18-10	B00027952	33	34	1.0	0.88
CK18-10	B00027953	34	35	1.0	0.73
CK18-10	B00027954	35	36	1.0	1.10
CK18-10	B00027955	36	37	1.0	1.63
CK18-10	B00027956	37	38	1.0	0.80
CK18-10	B00027957	38	39	1.0	0.76
CK18-10	B00027958	39	40	1.0	1.89
CK18-10	B00027959	40	41	1.0	0.35
CK18-10	B00027960	41	42	1.0	0.16
CK18-10	B00027962	42	43	1.0	0.75
CK18-10	B00027963	43	44	1.0	0.29
CK18-10	B00027964	44	45	1.0	1.17
CK18-10	B00027965	45	46	1.0	1.29
CK18-10	B00027966	46	47	1.0	0.46
CK18-10	B00027967	47	48	1.0	0.56
CK18-10	B00027968	48	49	1.0	0.58
CK18-10	B00027969	49	50	1.0	0.65
CK18-10	B00027970	50	51	1.0	0.53
CK18-10	B00027971	51	52	1.0	1.03
CK18-10	B00027973	52	53	1.0	1.21
CK18-10	B00027974	53	54	1.0	1.34
CK18-10	B00027975	54	55	1.0	0.45
CK18-10	B00027976	55	56	1.0	0.16
CK18-10	B00027977	56	57	1.0	0.89
CK18-10	B00027978	57	58	1.0	1.28
CK18-10	B00027979	58	59	1.0	1.04
CK18-10	B00027980	59	60	1.0	0.78
CK18-10	B00027981	60	61	1.0	0.86
CK18-10	B00027982	61	62	1.0	0.91
CK18-10	B00027984	62	63	1.0	0.67
CK18-10	B00027985	63	64	1.0	2.36
CK18-10	B00027986	64	65	1.0	7.71
CK18-10	B00027987	65	66	1.0	12.00
CK18-10	B00027988	66	67	1.0	5.71
CK18-10	B00027989	67	68	1.0	1.81
CK18-10	B00027990	68	69	1.0	1.45

Drill hole	sample id	from	to	Interval	CG
CK18-10	B00027991	69	70	1.0	1.22
CK18-10	B00027992	70	71	1.0	1.13
CK18-10	B00027993	81	82	1.0	0.72
CK18-10	B00027995	82	83	1.0	1.12
CK18-10	B00027996	83	84	1.0	11.60
CK18-10	B00027997	84	85	1.0	1.74
CK18-10	B00027998	85	86	1.0	1.11
CK18-10	B00027999	86	87	1.0	0.22
CK18-10	B00028000	87	88	1.0	0.39
CK18-10	54201	88	89	1.0	0.21
CK18-10	54202	89	90	1.0	0.15
CK18-10	54203	90	91	1.0	0.06
CK18-10	54204	91	92	1.0	0.06
CK18-10	54206	92	93	1.0	2.28
CK18-10	54207	93	94	1.0	2.46
CK18-10	54208	94	95	1.0	2.06
CK18-10	54209	95	96	1.0	1.67
CK18-10	54210	96	97	1.0	3.45
CK18-10	54211	97	98	1.0	0.44
CK18-10	54212	98	99	1.0	0.62
CK18-10	54213	99	100	1.0	1.28
CK18-10	54214	100	101	1.0	0.61
CK18-10	54215	101	102	1.0	1.05
CK18-10	54217	102	103	1.0	0.83
CK18-10	54218	103	104	1.0	1.40
CK18-10	54219	104	105	1.0	3.38
CK18-10	54220	105	106	1.0	0.58
CK18-10	54221	106	107	1.0	0.72
CK18-10	54222	107	108	1.0	0.48
CK18-10	54223	108	109	1.0	0.35
CK18-10	54224	109	110	1.0	0.38
CK18-10	54225	110	111	1.0	0.49
CK18-10	54226	111	112	1.0	0.81
CK18-10	54228	112	113	1.0	0.53
CK18-10	54229	113	114	1.0	1.46
CK18-10	54230	114	115	1.0	1.04
CK18-11	54231	50	51	1.0	0.34
CK18-11	54232	51	52	1.0	1.41
CK18-11	54233	52	53	1.0	1.56
CK18-11	54234	53	54	1.0	0.76
CK18-11	54235	54	55	1.0	0.12
CK18-11	54236	55	56	1.0	0.22
CK18-11	54237	56	57	1.0	0.33
CK18-11	54239	57	58	1.0	1.08
CK18-11	54240	58	59	1.0	1.12
CK18-11	54241	59	60	1.0	0.07

Drill hole	sample id	from	to	Interval	CG
CK18-11	54242	60	61	1.0	0.08
CK18-11	54243	61	62	1.0	0.31
CK18-11	54244	62	63	1.0	0.11
CK18-11	54245	63	64	1.0	0.23
CK18-11	54246	64	65	1.0	0.12
CK18-11	54247	65	66	1.0	0.22
CK18-11	54248	66	67	1.0	0.78
CK18-11	54250	67	68	1.0	1.38
CK18-11	54251	68	69	1.0	1.51
CK18-11	54252	69	70	1.0	13.30
CK18-11	54253	70	71	1.0	11.70
CK18-11	54254	71	72	1.0	1.54
CK18-11	54255	72	73	1.0	0.60
CK18-11	54256	73	74	1.0	0.75
CK18-11	54257	74	75	1.0	1.89
CK18-11	54258	75	76	1.0	2.07
CK18-11	54260	76	77	1.0	4.55
CK18-11	54261	77	78	1.0	4.94
CK18-11	54262	78	79	1.0	5.79
CK18-11	54263	79	80	1.0	5.99
CK18-11	54264	80	81	1.0	2.97
CK18-11	54265	81	82	1.0	1.11
CK18-11	54266	82	83	1.0	0.63
CK18-11	54267	111	112	1.0	1.08
CK18-11	54268	112	113	1.0	0.40
CK18-11	54269	113	114	1.0	0.66
CK18-11	54271	114	115	1.0	0.53
CK18-11	54272	115	116	1.0	0.82
CK18-11	54273	116	117	1.0	0.83
CK18-11	54274	117	118	1.0	0.73
CK18-11	54275	118	119	1.0	1.24
CK18-11	54276	119	120	1.0	0.24
CK18-11	54277	120	121	1.0	0.07
CK18-11	54278	121	122	1.0	0.08
CK18-11	54279	122	123	1.0	0.81
CK18-11	54280	123	124	1.0	1.99
CK18-11	54282	124	125	1.0	0.69
CK18-11	54283	125	126	1.0	0.52
CK18-11	54284	126	127	1.0	0.97
CK18-11	54285	127	128	1.0	1.14
CK18-11	54286	128	129	1.0	0.55
CK18-11	54287	129	130	1.0	0.80
CK18-11	54288	130	131	1.0	1.73
CK18-11	54289	131	132	1.0	0.26
CK18-11	54290	132	133	1.0	1.00
CK18-11	54291	133	134	1.0	0.17

CK18-11	54292	134	135	1.0	0.48
CK18-11	54293	135	136	1.0	1.24
CK18-11	54294	136	137	1.0	0.62
CK18-11	54295	137	138	1.0	0.62
CK18-11	54296	138	139	1.0	0.72
CK18-11	54297	139	140	1.0	1.13
CK18-11	54298	140	141	1.0	0.86

APPENDIX 5

QA/QC Program

Assay #	Hole No.	from	to	QaQc	Cg%	duplicate	Cg%
						sample	
152904	CK17-04	114	115	duplicata	2.89	152903	2.63
152995	CK17-04	196	197	Duplicate	4.83	152994	4.81
58435	CK17-03	56	57	duplicate	3.17	58434	3.17
30057	CK17-03	121	122	duplicate	<0.05	30056	<0.05
58346	CK17-02	65	66	duplicate	8.88	58345	8.9
B00027924	CK18-09	178	179	duplicate	0.51	B00027923	0.5
B00027856	CK18-09	70	71	duplicate	0.44	B00027855	0.43
58413	CK17-03	36	37	duplicate	3.65	58412	3.56
B00029612	CK17-06	33	34	duplicate	0.38	B00029611	0.39
B00027721	CK18-07	140	141	duplicate	14	B00027720	14.4
58256	CK17-01	83	84	duplicate	4.89	58255	5.03
30173	CK17-04	11	12	duplicate	13.2	30172	12.8
B00027655	CK18-07	61	62	duplicate	23.2	B00027654	22.4
58233	CK17-01	63	64	duplicate	6.05	58232	6.28
B00027994	CK18-10	81	82	duplicate	0.69	B00027993	0.72
B00027811	CK18-09	29	30	duplicate	9.24	B00027810	9.65
B00027699	CK18-07	114	115	duplicate	0.22	B00027698	0.23
58390	CK17-03	16	17	duplicate	1.76	58389	1.67
152973	CK17-04	176	177	duplicate	2.69	152972	2.83
B00027677	CK18-07	81	82	duplicate	3.33	B00027676	3.52
54238	CK18-11	56	57	duplicate	0.35	54237	0.33
152928	CK17-04	136	137	duplicate	1.01	152927	1.07
58300	CK17-02	24	25	duplicate	15.8	58299	14.8
B00027765	CK18-08	97	98	duplicate	1.93	B00027764	1.8
B00027833	CK18-09	49	50	duplicate	1.91	B00027832	2.04
27542	CK17-05	82	83	duplicate	3.31	27541	3.54
27567	CK17-05	113	114	duplicate	2.33	27566	2.53
B00027788	CK18-09	9	10	duplicate	1.16	B00027787	1.26
30150	CK17-03	205	206	duplicate	0.104	30149	0.095
54259	CK18-11	75	76	duplicate	2.28	54258	2.07
B00027743	CK18-08	58	59	duplicate	2.54	B00027742	2.79
30079	CK17-03	141	142	duplicate	2.97	30078	3.3
152950	CK17-04	156	157	duplicate	3.08	152949	3.44
54216	CK18-10	101	102	duplicate	1.19	54215	1.05
B00027900	CK18-09	144	145	duplicate	0.23	B00027899	0.26
58368	CK17-02	84	85	duplicate	14.1	58367	12.1
54281	CK18-11	123	124	duplicate	1.74	54280	1.99
30218	CK17-04	53	54	duplicate	1.69	30217	1.96
30196	CK17-04	32	33	duplicate	1.67	30195	1.38
58278	CK17-01	103	104	duplicate	6.59	58277	5.4
27519	CK17-05	61	62	duplicate	7.16	27518	5.84
B00027947	CK18-09	199	200	duplicate	1.83	B00027946	1.48
B00027878	CK18-09	105	106	duplicate	0.89	B00027877	1.08
58323	CK17-02	44	45	duplicate	1.7	58322	2.07
30127	CK17-03	184	185	duplicate	0.425	30126	0.328

Assay #	Hole No.	from	to	QaQc	Cg%	duplicate sample	Cg%
B00027972	CK18-10	51	52	duplicate	1.35	B00027971	1.03
30242	CK17-04	75	76	duplicate	17.6	30241	13.3
58212	CK17-01	27	28	duplicate	0.938	58211	0.688
30103	CK17-03	162	163	duplicate	0.668	30102	0.896
B00027633	CK18-07	42	43	duplicate	0.77	B00027632	1.13
58221	CK17-01	NA	NA	blank	<0.05	NA	NA
58244	CK17-01	NA	NA	blank	<0.05	NA	NA
58267	CK17-01	NA	NA	blank	<0.05	NA	NA
58289	CK17-02	NA	NA	blank	<0.05	NA	NA
58311	CK17-02	NA	NA	blank	<0.05	NA	NA
58334	CK17-02	NA	NA	blank	<0.05	NA	NA
58357	CK17-02	NA	NA	blank	<0.05	NA	NA
58379	CK17-02	NA	NA	blank	<0.05	NA	NA
58402	CK17-03	NA	NA	blank	<0.05	NA	NA
58424	CK17-03	NA	NA	blank	<0.05	NA	NA
58446	CK17-03	NA	NA	blank	<0.05	NA	NA
30068	CK17-03	NA	NA	blank	<0.05	NA	NA
30090	CK17-03	NA	NA	blank	<0.05	NA	NA
30115	CK17-03	NA	NA	blank	<0.05	NA	NA
30138	CK17-03	NA	NA	blank	<0.05	NA	NA
30162	CK17-03	NA	NA	blank	<0.05	NA	NA
30165	CK17-03	NA	NA	blank	<0.05	NA	NA
30184	CK17-04	NA	NA	blank	<0.05	NA	NA
30229	CK17-04	NA	NA	blank	<0.05	NA	NA
30041	CK17-04	NA	NA	blank	<0.05	NA	NA
152915	CK17-04	NA	NA	blank	<0.05	NA	NA
152939	CK17-04	NA	NA	blank	<0.05	NA	NA
152962	CK17-04	NA	NA	blank	<0.05	NA	NA
152984	CK17-04	NA	NA	blank	<0.05	NA	NA
27507	CK17-05	NA	NA	blank	<0.05	NA	NA
27531	CK17-05	NA	NA	blank	<0.05	NA	NA
27555	CK17-05	NA	NA	blank	<0.05	NA	NA
27578	CK17-05	NA	NA	blank	<0.05	NA	NA
B00027623	CK18-07	NA	NA	blank	<0.05	NA	NA
B00027643	CK18-07	NA	NA	blank	<0.05	NA	NA
B00027666	CK18-07	NA	NA	blank	<0.05	NA	NA
B00027687	CK18-07	NA	NA	blank	<0.05	NA	NA
B00027710	CK18-07	NA	NA	blank	<0.05	NA	NA
B00027732	CK18-08	NA	NA	blank	0.86	NA	NA
B00027754	CK18-08	NA	NA	blank	<0.05	NA	NA
B00027776	CK18-08	NA	NA	blank	<0.05	NA	NA
B00027799	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027822	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027844	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027867	CK18-09	NA	NA	blank	<0.05	NA	NA

Assay #	Hole No.	from	to	QaQc	Cg%	duplicate sample	Cg%
B00027889	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027913	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027935	CK18-09	NA	NA	blank	<0.05	NA	NA
B00027961	CK18-10	NA	NA	blank	<0.05	NA	NA
B00027983	CK18-10	NA	NA	blank	<0.05	NA	NA
54205	CK18-10	NA	NA	blank	<0.05	NA	NA
54227	CK18-10	NA	NA	blank	<0.05	NA	NA
54249	CK18-11	NA	NA	blank	<0.05	NA	NA
54270	CK18-11	NA	NA	blank	<0.05	NA	NA
B00027950	CK18-10	NA	NA	standard	3	NA	NA
152901	CK17-04	NA	NA	standard	3.02	NA	NA
B00027700	CK18-07	NA	NA	standard	3.02	NA	NA
30151	CK17-03	NA	NA	standard	3.03	NA	NA
B00027901	CK18-09	NA	NA	standard	3.03	NA	NA
58351	CK17-02	NA	NA	standard	3.05	NA	NA
30246	CK17-04	NA	NA	standard	3.06	NA	NA
58401	CK17-03	NA	NA	standard	3.07	NA	NA
152951	CK17-04	NA	NA	standard	3.07	NA	NA
B00027650	CK18-07	NA	NA	standard	3.07	NA	NA
B00027800	CK18-09	NA	NA	standard	3.11	NA	NA
58251	CK17-01	NA	NA	standard	3.15	NA	NA
58442	CK17-03	NA	NA	standard	3.15	NA	NA
30101	CK17-03	NA	NA	standard	3.18	NA	NA
27501	CK17-04	NA	NA	standard	3.18	NA	NA
58315	CK17-02	NA	NA	standard	3.19	NA	NA
27551	CK17-05	NA	NA	standard	3.19	NA	NA